

**Appendix**

Intended as supplemental information not included within the technical response are the following items:

- + **Appendix A:** Resumes
- + **Appendix B:** Dashboard Sample Reports
- + **Appendix C:** Gantt Chart Information
- + **Appendix D:** Preventative Maintenance Schedules and Information
- + **Appendix E:** Workplace Recycling Certificate
- + **Appendix F:** BAR97 Letter and Component Approval Certification
- + **Appendix G:** Sample Service Contract
- + **Appendix H:** Applus+ Reporting Suite for EPA 40CFR 51.366 requirements
- + **Appendix I:** Exhibits 1, 3, and 4
- + **Appendix J:** Attachment A

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**Appendix A: Resumes**

Featured below are the professional resumes of Applus+’ proposed SLC staffing. Each team member has been assigned a specific program role and will be held responsible for administering their daily responsibilities and tasks as required.

**Thomas L. Springer**

Chief Executive Officer and Country Manager



<b>Current Role</b>	<b>Applus+ CEO and Country Manager, 2009-Present</b> <ul style="list-style-type: none"><li>+ Developing and fostering executive level relationships</li><li>+ Positioning the organization with key accounts</li><li>+ Providing strategic direction in support of customer requirements</li><li>+ Generating product and service demand for the marketplace</li><li>+ Provide leadership for Applus+ personnel, serving both nation and international business.</li></ul>
<b>Prior Experience &amp; Background</b>	<b>Verizon Business, Regional Vice President, 2004-2009</b> <ul style="list-style-type: none"><li>+ Business strategy development</li><li>+ Merger, acquisition, and divestiture</li><li>+ Profit and loss management</li><li>+ Sales management and business development efforts</li><li>+ Program management, service as program executive for clients</li></ul> <b>Bertelsmann/Random House, Inc., Program Manager, 2002-2004</b> <ul style="list-style-type: none"><li>+ Financial forecasting and budgeting</li><li>+ Voice and data communication convergence responsibilities</li><li>+ National wide area network consolidation and redesign</li><li>+ Inventory and asset management tasks</li></ul> <b>Global Networking Solutions, LLC, Co-Founder, 1996-2002</b> <ul style="list-style-type: none"><li>+ Strategic planning and business development</li><li>+ Oversight of back-office functions – profit and loss management, financial forecasting, budgeting, general accounting, etc.</li></ul> <b>USCONNECT Washington/Baltimore, Director, 1995-1996</b> <ul style="list-style-type: none"><li>+ Lead and managed profit and loss center</li><li>+ Responsible for development and execution of project consulting services</li><li>+ Identified business opportunities and markets.</li><li>+ Oversaw all consulting and systems integration efforts</li></ul>

<b>Education</b>	Master of Science, Telecommunications, John Hopkins University Bachelor of Science, Computer Information Systems and Business Administration, North Carolina Wesleyan College
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## Darrin Greene

Vice President of Operations



<b>Proposed As</b>	Executive Implementation Officer
<b>Current Role</b>	<p><b>Applus+ Vice President of Operations, 2009-Present</b></p> <ul style="list-style-type: none"> <li>+ Establish operational best practice initiatives and standards for improvements in quality, cost control, on-time delivery, safety, vendor relationship management, and employee relations.</li> <li>+ Utilize business process reengineering and quality assurance principles in the areas of emission techniques, equipment usage, capacity planning, scheduling, safety, customer satisfaction and performance measures to enhance efficiencies and contract compliance.</li> <li>+ Conduct program benchmarking and open communication to facilitate knowledge transfer of best practices between programs.</li> <li>+ Recommend, implement, and execute strategic changes in operations strategy, policies, and practices nationwide.</li> </ul>
<b>Prior Experience &amp; Background</b>	<p><b>Consultant Group, Consultant, 2004-2006</b></p> <ul style="list-style-type: none"> <li>+ Provided Program Management leadership, technical expertise, quality management oversight, and process-improvement training.</li> <li>+ Facilitated training seminars for industry icons such as General Motors, Sara Lee, etc.</li> </ul> <p><b>MA Emission &amp; Safety Test Program, Program Manager, 1996-2004</b></p> <ul style="list-style-type: none"> <li>+ Responsible for the day-to-day responsibilities of the I/M program.</li> </ul> <p><b>Fulton County GA, Asst. Director of Motor Vehicles, 1992-1996</b></p>
<b>Education</b>	Bachelors of Science in Management, California Coast University
<b>Certifications</b>	Six Sigma Green Belt (CGB)

# Barton Richter

Operations Manager



<b>Proposed As</b>	SLC Program Manager
<b>Current Role</b>	<b>Applus+ Washington, Operations Manager, 1999-Present</b> <ul style="list-style-type: none"><li>+ Responsible for oversight and coordination of all inspection facilities' operations and activities as well as achievement of program objectives in accordance with company policies and procedures.</li><li>+ Serves as representative and liaison between the Applus+ program and the Department of Ecology and other outside agencies.</li><li>+ Main point of contact for all operations of program.</li></ul>
<b>A+ Contributions</b>	<ul style="list-style-type: none"><li>+ Performed the duties of Program Manager, Operations Manager, QA/QC Manager and Field Audit Specialist</li><li>+ Continuously focused on providing overall program improvements, with areas of concentration concerning reducing wait times and improving customer satisfaction</li><li>+ As QA/QC Manager for Applus+ Ireland start-up, Barton was tasked with the overall operation of the Washington Program, as well as continuation of his own daily responsibilities</li></ul>
<b>Prior Experience &amp; Background</b>	<b>Applus+ Washington, QA/QC Specialist,</b> <ul style="list-style-type: none"><li>+ Coordinated and implemented a Quality Assurance program to ensure accurate vehicle inspections and testing.</li><li>+ Compiled and analyzed test data.</li><li>+ Performed quality testing on program hardware and software.</li><li>+ Worked closely with state agency to ensure compliance within current standards.</li></ul> <b>Applus+ Rhode Island, Compliance Field Auditor,</b> <ul style="list-style-type: none"><li>+ Responsible for assessing condition of equipment and contract compliance for RI2000 Emissions &amp; Safety Inspection facilities.</li><li>+ Established guidelines and procedures for overt and covert audits.</li><li>+ Applus+ Washington, Program Implementation Technician</li><li>+ Applus+, Quality Assurance Manager</li><li>+ Applus+, District Manager</li><li>+ Applus+, Damage Claims Administrator</li><li>+ Applus+, District Trainer</li><li>+ Applus+, Station Manager</li></ul>
<b>Education</b>	Bachelors of Science, Physical Education, West Virginia Wesleyan College

<b>Certifications</b>	+ Authorized Emissions Specialist (AES), State of Washington, Department Of Ecology
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## Matthew Petersen

Project Manager



<b>Proposed As</b>	SLC Project Implementation Manager
<b>Current Role</b>	<p><b>Applus+ Project Manager, 2010-Present</b></p> <ul style="list-style-type: none"> <li>+ Responsible for program analysis – meets with customers to determine program needs and solutions.</li> <li>+ Assists with legal counsel.</li> <li>+ Assists with program implementation efforts including software and hardware development, inspector and station training, licensing, auditing, public information, VID and software application content development.</li> <li>+ Assists with program QA/QC components.</li> <li>+ Contract oversight from commencement to contract turnover, if applicable.</li> </ul>
<b>A+ Contributions</b>	<ul style="list-style-type: none"> <li>+ Spearheaded responsibilities related to ISO certification process in Massachusetts I/M program;</li> </ul>
<b>Prior Experience &amp; Background</b>	<p><b>Applus+ Assistant Program Manager, 2006-2008</b></p> <ul style="list-style-type: none"> <li>+ Day-to-day operations of the Massachusetts Enhanced Vehicle Inspection Program</li> <li>+ Overseeing contract compliance, public relations, customer service, financial management, and assisting our corporate office with business development</li> <li>+ Liaison with government agencies, motorists, subcontractors, and corporate management</li> <li>+ Program Manager, 2003-2006</li> <li>+ Supervised the activities of the Atlanta waiver program for the State of Georgia</li> <li>+ Worked with the Environmental Protection Division (EPD) in order to meet motorists needs and resolve program issues</li> <li>+ Analyze current operations and make improvements that will increase overall effectiveness</li> </ul>
<b>Education</b>	Bachelors of Science, Forestry, University of Montana
<b>Certifications</b>	+ Project Management Professional (PMP Certification)

# Ken Gadwah

Director of I/M Services & QA/QC



<b>Proposed As</b>	Director of QA/QC
<b>Current Role</b>	<b>Applus+ Director of I/M Services &amp; QA/QC, 2009-Present</b> <ul style="list-style-type: none"><li>+ Responsible for overseeing marketing of Applus+ within the I/M industry.</li><li>+ Researches new business leads including responding to RFIs, RFQs, and RFP opportunities.</li><li>+ Responsible for overseeing quality objectives for the company.</li><li>+ Responsible for Quality Assurance budgets.</li><li>+ Manages corporate QMS which is ISO 9001 certified.</li></ul>
<b>A+ Contributions</b>	<ul style="list-style-type: none"><li>+ Lead the acceptance testing procedures in CT to obtain approval to install and operate 275 vehicle emission inspection units.</li><li>+ Assisted in acceptance testing procedures in Illinois to obtain approval to operate 86 vehicle emission inspection units.</li><li>+ Assisted in final unit checkout for 100+ emission and safety lanes in Ireland, this included working with equipment vendors, software developers, and Ireland road safety authority representatives.</li><li>+ Lead implementation of the Applus+ Quality Management System which is ISO 9001-2008 certified. This includes annual internal audits and external audits performed by American Systems Registrars.</li><li>+ Received 6SIGMA Black Belt certification</li></ul>
<b>Prior Experience &amp; Background</b>	<b>Applus+ Director of Quality Management, 2008-2009</b> <ul style="list-style-type: none"><li>+ Responsible for overseeing all quality initiatives for the company.</li><li>+ Management of QA budget.</li><li>+ Managing the corporate QMS.</li><li>+ Providing quality control oversight for RFP proposal documents to ensure compliance to requirements.</li></ul> <b>Applus+ Corporate Quality Assurance Manager, 2006-2008</b> <ul style="list-style-type: none"><li>+ Responsible for overseeing quality objectives for the company.</li><li>+ Managing the corporate QMS</li><li>+ Providing training for QA personnel within the company</li></ul> <b>Applus+ Quality Assurance/Quality Control Manager, 2003-2006</b> <ul style="list-style-type: none"><li>+ Worked closely with vendors and DMV personnel developing specifications, standards, and procedures.</li><li>+ Developed reports to assist management oversee operations, detect trends, and anticipate potential issues.</li><li>+ Oversee software development and upgrades.</li></ul>

	<ul style="list-style-type: none"> <li>+ Assisted the Program Manager in the day-to-day operations.</li> </ul>
	<b>Envirotest Systems, Inc., IT Manager, 2001-2002</b> <ul style="list-style-type: none"> <li>+ Direct daily operation of host computer, NT servers, office computers.</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>+ ISQ 9001 Auditor Training provided by American Society of Quality</li> <li>+ 6Sigma Master Black Belt</li> </ul>

## Andrew Jones

Director of Technology



<b>Proposed As</b>	Director of Technology
<b>Current Role</b>	<b>Applus+ Director of Technology, 2007-Present</b> <ul style="list-style-type: none"> <li>+ Responsible for the corporation-wide network and its servers, file server storage, system backups, the company-wide email system, system security, and access control.</li> <li>+ Highly experience in development, deployment, upgrade, end optimization of integrated networks related to e-VIDTM technology.</li> <li>+ More than ten years of experience in information technology (IT) departmental management and operations, with emphasis on the development, deployment, upgrade, and optimization of integrated networks according to organizational policies and program goals.</li> </ul>
<b>Prior Experience &amp; Background</b>	<b>Applus+ IT Manager, 2005-2007</b> <ul style="list-style-type: none"> <li>+ Responsible for the Applus+ corporate office LAN/WAN, program operation sites, and customer networks.</li> <li>+ Manage network hardware and software configuration, integration, and maintenance for web and data communications.</li> <li>+ Ensure IT performance meets company goals and that projects are delivered on time, within budget, to customer expectation.</li> </ul> <b>OAO Services, Consultant 2000-2002</b> <ul style="list-style-type: none"> <li>+ Managed the implementation of a Statistical Quality Assurance program for the Washington State Department of Social and Health Services ACES Project as a Process Improvement Consultant.</li> <li>+ Led a team of 12 analysts responsible for improving the processes for Staff Relationship Management Estimating.</li> <li>+ Led a team of 6 analysts responsible for process improvement of the Testing and Quality Assurance process.</li> <li>+ Developed an Access measurement system for tracking the quality of the software process.</li> </ul>
<b>Education</b>	Bachelors of Science, Business Administration, Northeastern University Associate of Science, Computer Science, Coleman College

**Certifications**

+ Microsoft Certified Systems Engineer

**Nitin Oberoi**

Software Development Manager



<b>Proposed As</b>	Software Development Manager
<b>Current Role</b>	<p><b>Applus+ Software Development Manager, 2007-Present</b></p> <ul style="list-style-type: none"> <li>+ In charge of testing and deploying all major software applications company-wide.</li> <li>+ Acts as liaison between management and development teams</li> <li>+ Oversees test script generation</li> <li>+ Assists with performing acceptance test procedures</li> <li>+ Develops reporting suites using ASP and ASP.net</li> <li>+ Enhances reporting application using stored procedures and crystal reports.</li> </ul>
<b>A+ Contributions</b>	<ul style="list-style-type: none"> <li>+ Leading Developer of Applus+ robust Reporting Dashboard and accompanying report development.</li> <li>+ Lead initiatives to develop the e-VID.</li> <li>+ Lead creation or enhancement of web-enabled reporting applications using ASP.NET</li> </ul>
<b>Prior Experience &amp; Background</b>	<p><b>Applus+ Senior Software Developer, 2003-2007</b></p> <ul style="list-style-type: none"> <li>+ Participated in software specification</li> <li>+ Created Utah's online consumables website to ease ordering needs</li> <li>+ Created web-enabled applications to interface between databases and cell phones for dispatching purposes.</li> <li>+ Routine server maintenance, including data replication, monitoring, and shrinking of log files.</li> <li>+ Performed adhoc queries</li> <li>+ Maintenance of corporate intranet and various corporate websites.</li> </ul> <p><b>Delphi ISS, Programmer Analyst, 2002-2003</b></p> <ul style="list-style-type: none"> <li>+ Designed component applications for DS800 web-enabled diagnostic scan tool</li> <li>+ Created applications following OBDII guidelines and specs using Visual C++ and MFC.</li> </ul> <p><b>University of Michigan, C++ Instructor, 2000-2002</b></p> <ul style="list-style-type: none"> <li>+ Introduced students to key concepts in C++, Algorithm Analysis, etc.</li> </ul>

	+ Taught students how to use data structures
<b>Education</b>	+ Masters of Science, Computer Information Systems, University of Michigan
<b>Certifications</b>	+ MCP – Microsoft Certified Programmer

**Alex Mendez**  
Systems Administrator



<b>Proposed As</b>	Network Systems Administrator
<b>Current Role</b>	<p><b>Applus+ Systems Administrator, 2007-Present</b></p> <ul style="list-style-type: none"> <li>+ Responsible for Windows Exchange 2003/2007 mail server installation and administration,</li> <li>+ Daily tasks involve message routing, SMTP configuration, mailbox management, backup, OWA, Outlook Client Configuration;</li> <li>+ knowledgeable in administering and supporting Windows 2003/2007 Servers;</li> <li>+ Implements and conducts Windows Active Directory and DNS,</li> <li>+ Uses scripts to automate systems administration tasks.</li> <li>+ Uses and well versed in Linux operating system; boot process, Linux NFS installations, disk management, file system management, user administration, package management, systems administration tools, custom kernel installation binary or source, and services management.</li> <li>+ Responsible for network security and administration.</li> </ul>
<b>Prior Experience &amp; Background</b>	<p><b>PSAV, Lead Maintenance Technician Level II, 2003-2007</b></p> <ul style="list-style-type: none"> <li>+ Main responsibilities include overseeing the company's computer builds for desktop and provide desktop support for corporate headquarters.</li> <li>+ Responsible for leading the configuration center which builds the company's laptops and desktop builds;</li> <li>+ Install and configure custom configurations for different situations, including but not limited to kiosk and tablet computers.</li> <li>+ Experienced in managing several tech I and consultants.</li> </ul> <p><b>Comm Supply Corporation, Systems Administrator, 2000-2003</b></p> <ul style="list-style-type: none"> <li>+ Managed Windows 2003 server, Active directory management, DNS, DHCP and Exchange 2003 server management.</li> <li>+ Tasks included network printer management, monitored servers, printers and other network devices via Zenoss network monitoring software in the corporate office and remote locations.</li> <li>+ Data center duties consisted of server moves and equipment re-organization.</li> </ul>

	<ul style="list-style-type: none"> <li>+ Other responsibilities required building desktops and laptops for the entire company.</li> </ul>
<b>Education</b>	Bachelors of Science, Information Systems, Capella University
<b>Certifications</b>	<ul style="list-style-type: none"> <li>+ A+</li> <li>+ Linux+</li> <li>+ MCP (Microsoft Certified Professional)</li> </ul>

## Timothy Raml

Director of Operations



<b>Proposed As</b>	Equipment/Analyzer Development
<b>Current Role</b>	<p><b>Applus+, Director of Operations, 2008-Present</b></p> <ul style="list-style-type: none"> <li>+ Manages development of hardware and equipment and specifications for new vehicle testing.</li> <li>+ Contributes to the specification and requirements for major software project.</li> <li>+ Develops and supports I/M programs in United States, Canada, South America, Europe and Asia.</li> <li>+ Analyze information to determine, recommend and plan installation of a new systems or modification of the existing program systems.</li> <li>+ Direct software programming and development of documentation.</li> <li>+ Consult with customer or other departments on project status, proposals and technical issues such as system design and maintenance.</li> </ul>
<b>Prior Experience &amp; Background</b>	<p><b>Applus+, Software Engineer, 1996-2008</b></p> <ul style="list-style-type: none"> <li>+ Significantly decreased the time to market and number of engineers required to develop software for several large software project due to efficient software design, structure and efficient code reuse.</li> <li>+ Produced several software projects with very little field problems. One project in Puerto Rico for emissions and OBDII testing was so robust that there were virtually no field bugs reported in a 4 year period after the first year of operation</li> </ul> <p><b>Milwaukee Eye Care, Engineer, 1995-1996</b></p> <ul style="list-style-type: none"> <li>+ Performed System administration of SCO XENIX system V, PC software/hardware updates, and software training.</li> <li>+ Managed the troubleshooting of system design and billing problems for software claim system and accounting of claim.</li> </ul>
<b>Education</b>	Bachelors of Science, Computer Science, University of Wisconsin

# Dennis Palmer

Director of Client Services



<b>Proposed As</b>	SLC Project Implementation Advisor
<b>Current Role</b>	<p><b>Applus+, Director of Client Services, 2009-Present</b></p> <ul style="list-style-type: none"><li>+ Define and communicate corporate strategic plans for the expansion and growth of the firm in new certification businesses.</li><li>+ Assist in market research, market development and capturing new business opportunities in the Automotive Inspections Emissions business as well as in other certification sectors.</li><li>+ Facilitate the proposal/bidding process including budget and pricing, proposal writing, contract negotiation, and client presentations.</li><li>+ Assist in developing project plans, defining roles and responsibilities, and the scope of work per project.</li><li>+ Assist in the development, management and tracking of annual business development budget.</li><li>+ Build and foster long-term relationships with the media, members of the community, public affairs offices, and other organizations.</li></ul>
<b>Prior Experience &amp; Background</b>	<p><b>Applus+, Director, 2003-2007</b></p> <ul style="list-style-type: none"><li>+ Managed all of Applus' centralized and decentralized I/M Programs ensuring contract compliance and superior customer satisfaction.</li><li>+ Established initiatives for improvement in safety, quality, and performance.</li><li>+ Established performance standards for company programs.</li><li>+ Revamped training program in Washington centralized I/m program improving throughput.</li></ul> <p><b>Parsons, Vice President of Operations, 2000-2002</b></p> <ul style="list-style-type: none"><li>+ Managed multiple Inspection/Maintenance Programs including New Jersey, Georgia, Ontario, and Pennsylvania.</li><li>+ Improved customer service levels and customer satisfaction by 40% by improving response times.</li><li>+ Developed labor model and performance standards producing \$3 million in production and operating cost savings.</li></ul> <p><b>ESP, General Manager, 1997-2000</b></p> <p><b>Envirotest Systems Corp, Director of Operations, 1995-1997</b></p> <p><b>Systems Control, General Manager, 1990-1993</b></p> <p><b>Systems Control, Program Manager, 1988-1990</b></p> <p><b>Systems Control, Operations Manager, 1985-1988</b></p> <p><b>Systems Control, Station Manager, 1983-1985</b></p>
<b>Education</b>	Bachelor of Arts, Political Science, University of Maryland

## Jerry Kollman

Vice President of Sales & Marketing



<b>Proposed As</b>	SLC Project Implementation Advisor
<b>Current Role</b>	<b>Applus+ Vice President of Sales &amp; Marketing, 2009-Present</b> <ul style="list-style-type: none"><li>+ Executes strategic sales initiatives in North America.</li><li>+ Spearheads business development initiatives consistent with Applus+' business strategy.</li><li>+ Works with Product Directors and Account Managers to ensure products and services are in line with customer needs.</li><li>+ Manages workforce of sales and marketing professionals.</li></ul>
<b>Prior Experience &amp; Background</b>	<b>National Sales &amp; Marketing Manager, Verizon Business, 2004-2009</b> <ul style="list-style-type: none"><li>+ Responsible for sales, business development, marketing, solutions design, sales engineering and capture for government and commercial clients.</li><li>+ Played key role as Regional Sales and Operations Manager supporting multiple I/M programs across the country.</li></ul> <b>Clarkston Consulting, Regional Vice President of Sales, 2001-2003</b> <ul style="list-style-type: none"><li>+ Responsible for sales, business development, and marketing for leading SAP consulting firm in life sciences and consumer products.</li></ul> <b>MCI Sales Manager, 1995-2001</b> <ul style="list-style-type: none"><li>+ Founding principal of MCI VANSIS, directly involved in various roles in its first eight states to implement emissions testing programs.</li></ul> <b>EDS, Sales Director, 1983-1995</b>
<b>Education</b>	<ul style="list-style-type: none"><li>+ Bachelor of Science, Agricultural Business, Finance &amp; Economics, Iowa State University</li></ul>

## Brenda Ackarman-Sioson

Government Outreach and Program Specialist

<b>Proposed As</b>	SLC Project Implementation Adviser
<b>Current Role</b>	<b>Applus+, Government Outreach &amp; Program Specialist, 2010-Present</b> <ul style="list-style-type: none"><li>+ Responsible for program analysis -- meets with customers to determine program needs and solutions.</li><li>+ Assists with legal counsel.</li><li>+ Assists with program implementation efforts including software and</li></ul>

	<p>hardware development, inspector and station training, licensing, auditing, public information, VID and software application content development.</p> <ul style="list-style-type: none"> <li>+ Assists with program QA/QC components.</li> <li>+ Contract oversight from commencement to contract turnover, if applicable.</li> </ul>
<b>Prior Experience &amp; Background</b>	<p><b>Gordon-Darby Inc., Government Outreach/Contract Manager, 2006-2010</b></p> <ul style="list-style-type: none"> <li>+ Upon award, negotiated the final provisions of the contract for the Texas Information Management System (TIMS+) (the Texas IM program Vehicle Inspection Database (VID)); and secured all administrative and contractual requirements to ensure legality and timely compliance.</li> <li>+ Participated in the development of the TIMS+ and related software applications.</li> <li>+ Performed oversight for on-going operations of the TIMS+ project; served as liaison for all program and administrative issues; conducted periodic program status meetings with the Texas Commission on Environmental Quality.</li> </ul> <p><b>Verizon Business (formerly MCI/WorldCom), Government Consultant/Contract Manager, 2000-2006</b></p> <ul style="list-style-type: none"> <li>+ Oversight of vehicle emissions program contract administration.</li> <li>+ Managed the on-going operations and new development of the Texas Information Management System (TIMS).</li> <li>+ Performed oversight for all aspects of the TIMS project – on-going operations, pilot projects, etc.; served as liaison for all program and administrative issues; conducted periodic program status meetings with the Texas Commission on Environmental Quality.</li> <li>+ Worked closely with the customer to maintain the integrity of the projects; and analyzed and interpreted complex state and federal statutes, rules, regulations and case law.</li> </ul> <p><b>Texas Department of Transportation, Program Manager, 1999-2000</b></p> <p><b>Texas Department of Public Safety – Vehicle IM, Program Manager/Legal Counsel, 1996-1999</b></p> <p><b>Texas Department of Public Safety, Director of Programs, 1994-1996</b></p>
<b>Education</b>	<p>Doctorate of Jurisprudence, Law, Drake University Law School</p> <p>Bachelor of Arts, Biology, Wartburg College</p>

## Jack Pierce

Business Development Director

<b>Proposed As</b>	SLC Project Implementation Advisor
<b>Current Role</b>	Applus+ Business Development Director, 1997-Present

	<ul style="list-style-type: none"> <li>+ Define and communicate corporate strategic plans for the expansion and growth of the firm in new certification businesses.</li> <li>+ Assist in market research, market development and capturing new business opportunities in the Automotive Inspections Emissions business as well as in other certification sectors.</li> <li>+ Facilitate the proposal/bidding process including budget and pricing, proposal writing, contract negotiation, and client presentations.</li> <li>+ Assist in developing project plans, defining roles and responsibilities, and the scope of work per project.</li> <li>+ Assist in the development, management and tracking of annual business development budget.</li> <li>+ Speak at national conferences, including the Annual Clean Air Conference in Colorado, sponsored by the US Environmental Protection Agency.</li> <li>+ Build and foster long-term relationships with the media, members of the community, public affairs offices, and other organizations.</li> </ul>
<b>A+ Contributions</b>	<ul style="list-style-type: none"> <li>+ Fulfilled program management roles in three large scale I/M program implementations;</li> <li>+ Spearheaded responsibilities related to ISO certification process in Massachusetts I/M program;</li> <li>+ Managed the creation of "Maintenance Network" in MA program;</li> <li>+ Active participant in CITA North America, representing Applus+.</li> </ul>
<b>Prior Experience &amp; Background</b>	<p><b>Applus+, Program Manager, 2004-2007</b></p> <ul style="list-style-type: none"> <li>+ Define and communicate corporate strategic plans for the expansion and growth of the firm in new certification businesses.</li> <li>+ Manage all aspects and functions of the Massachusetts I/M program, including a staff of 45.</li> <li>+ Oversee integrity of Vehicle Information Database, an online network recording approximately 20,000 inspections daily and linking this data to state system.</li> <li>+ Maintain and repair 1,600 test systems located in independent garages throughout the state.</li> <li>+ Improve equipment audits to an industry leading accuracy rate of 96%.</li> <li>+ Create and implement training programs for inspectors and automotive repair technicians.</li> <li>+ Develop, test, and implement software.</li> </ul> <p><b>Applus+, Manager of Industry and Motorist Services, 1999-2004</b></p> <p><b>New England Service Station Association, CEO, 1991-1999</b></p> <p><b>Commonwealth of MA, Deputy Director, 1988-1990</b></p> <p><b>MA Registry of Motor Vehicles, Legislative Director, 1987-1990</b></p>
<b>Education</b>	<p>Bachelor of Arts, History, College of the Holy Cross</p> <p>Graduate Program, Special Education, Assumption College</p>

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**Appendix B: Sample Reports**

On the following pages are sample reports for SLVHD review. With a wide variety of data reporting options, these reports were collected from Applus+' Illinois I/M program's Reporting Dashboard, a decentralized program utilizing similar reporting technology the SLC would benefit from based on its current reporting goals and needs. Sensitive vehicle data and motorist information has been screened to protect program and consumer privacy:



# Monthly and Annual Test Summary Reports (by model year)

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## Monthly and Annual Test Summary Reports

Select Period By:  Year  Month  
 Select Year: 2010  North: May  Car Report  
 Select Report By:  Test Type  Vehicle Type  Model Year  Region

Test Summary Report By Model Year From 5/1/2010 To 5/31/2010

Model Year	Initial Tests	Initial Test Passes	Initial Test Failure Rate	First Request Passes	First Request Failure Rate	First Request Fail Rate	Second Subsequent Tests	Second Subsequent Passes	Second Subsequent Failure Rate	Second Subsequent Fail Rate	Subsequent Passes	Subsequent Failure Rate	Subsequent Fail Rate	Receive Waiver	Receive Waiver Rate
1996	0	0	0.00%	0	0.00%	0	0	0	0.00%	0	0	0.00%	0	0	0.00%
1998	11,932	10,507	88.06%	1,425	11.94%	1,015	852	70.31%	210	20.69%	154	130	56.70%	84	43.20%
1997	2,192	1,724	78.65%	468	21.35%	519	381	73.41%	138	20.59%	150	89	59.33%	61	40.67%
1998	19,188	17,404	90.70%	1,784	9.30%	1,865	1,448	84.10%	217	15.60%	195	129	66.16%	66	33.85%
1999	2,645	2,238	84.59%	408	15.43%	458	356	77.73%	102	22.27%	140	75	53.57%	65	46.43%
2000	27,640	25,081	90.81%	2,559	7.09%	3,498	3,224	92.20%	174	11.62%	149	108	72.48%	41	27.52%
2001	2,885	2,461	85.30%	424	14.70%	530	414	78.14%	116	21.89%	340	79	56.43%	61	43.57%
2002	32,103	30,433	94.80%	1,760	5.47%	1,409	1,265	89.85%	143	10.15%	121	84	69.42%	37	30.58%
2003	2,557	2,346	91.78%	221	8.62%	260	221	85.00%	39	13.08%	42	27	64.29%	15	35.71%
2004	32,594	31,648	97.10%	946	2.90%	745	685	91.95%	60	8.05%	49	34	69.38%	15	30.61%
2005	3,155	3,029	96.01%	126	3.99%	175	148	84.57%	27	15.43%	24	15	62.50%	9	37.50%
2006	31,760	31,194	98.15%	574	1.81%	423	389	91.73%	35	8.27%	33	27	81.82%	6	18.18%
2008	1	1	100.00%	0	0.00%	0	0	0.00%	0	0.00%	0	0	0.00%	0	0.00%
<b>TOTAL</b>	<b>186,764</b>	<b>159,666</b>	<b>84.02%</b>	<b>10,095</b>	<b>5.38%</b>	<b>8,397</b>	<b>7,144</b>	<b>85.04%</b>	<b>3,285</b>	<b>14.95%</b>	<b>1,237</b>	<b>777</b>	<b>62.81%</b>	<b>460</b>	<b>37.19%</b>

Note: Test types include OBD and Idle Exhaust. Gas Cap-only retests have not been included in these results.

Version: 6.1.3.1

# Network Monthly Activity Report

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**I/M Dashboard**

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## Network Monthly Activity Report

Select Month:

Total Number of Passing/Failing vehicles											<a href="#">Save As Excel</a>	<a href="#">Print</a>
Station Number	Total	Pass	% Pass	Fail	% Fail	Reject	% Reject	Waiver	WaiverFail	WaitTime		
11	8	5	63%	1	13%	2	25%	0	0	00:04:03		
300	1	1	100%	0	0%	0	0%	0	0	00:00:00		
303	1	0	0%	1	100%	0	0%	0	0	00:00:00		
305	1	0	0%	0	0%	1	100%	0	0	00:00:00		
306	1	0	0%	0	0%	1	100%	0	0	00:00:00		
307	1	0	0%	1	100%	0	0%	0	0	00:00:00		
308	1	0	0%	0	0%	1	100%	0	0	00:00:00		
309	1	1	100%	0	0%	0	0%	0	0	00:00:00		
311	2	0	0%	0	0%	2	100%	0	0	00:00:00		
330	1	0	0%	1	100%	0	0%	0	0	00:00:00		
331	1	0	0%	0	0%	1	100%	0	0	00:00:00		
332	1	0	0%	1	100%	0	0%	0	0	00:00:00		
333	1	1	100%	0	0%	0	0%	0	0	00:00:00		

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**Test Summary Report**

Today  Yesterday  This Month  Select A Date Range   
 Group By  Test Type  Station  Vehicle Type  Model Year  Region

|

Test Summary By Station (Hide Panel...)

STATION	FAIL	% FAIL	PASS	% PASS	REJECT	% REJECT	TOTAL	% TOTAL
1 - WAUWEGAN	19	0.23%	311	3.79%	10	0.19%	346	4.215%
2 - CRYSTALLAKE	17	0.21%	416	5.06%	14	0.17%	447	5.44%
3 - CRYSTAL LAKE	43	5.25%	775	9.38%	11	0.13%	829	10.24%
<b>TOTAL</b>	<b>437</b>	<b>5.32%</b>	<b>7,199</b>	<b>88.85%</b>	<b>479</b>	<b>5.83%</b>	<b>8,215</b>	<b>100.00%</b>

STATION NAME	INITIAL TESTS	INITIAL TEST FAILURE	FIRST RETEST	SECOND OR SUBSEQUENT RETEST	SECOND OR SUBSEQUENT FAILURE	RECEIVE WAIVER	NO FINAL OUTCOME	TOTAL	
#	%	#	%	#	%	#	%	#	
1 - WAUWEGAN	338	4.11%	19	0.23%	7	0.08%	1	0.01%	346
2 - CRYSTALLAKE	447	5.25%	14	0.17%	12	0.15%	0	0.00%	447
3 - CRYSTAL LAKE	829	10.24%	11	0.13%	11	0.13%	11	0.13%	829
<b>TOTAL</b>	<b>7,842</b>	<b>95.46%</b>	<b>361</b>	<b>4.39%</b>	<b>242</b>	<b>2.95%</b>	<b>32</b>	<b>0.39%</b>	<b>8,215</b>

# Test Summary Report (by test type)

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## Test Summary Report

Today  Yesterday  This Month  Select A Date Range   
 Group By  Test Type  Station  Vehicle Type  Model Year  Region

TEST TYPE	FAIL	% FAIL	PASS	% PASS	REJECT	% REJECT	TOTAL	% TOTAL
GAS CAP	0	0.00%	31	0.38%	0	0.00%	31	0.38%
OBDDI	392	4.81%	7,000	85.87%	312	3.83%	7,704	94.50%
EXHAUST	27	0.33%	208	2.55%	31	0.38%	266	3.26%
OTHER*	14	0.17%	6	0.07%	131	1.61%	151	1.85%
<b>TOTAL</b>	<b>433</b>	<b>5.31%</b>	<b>7,245</b>	<b>88.67%</b>	<b>474</b>	<b>5.81%</b>	<b>8,152</b>	<b>100.00%</b>

TEST TYPE	INITIAL TESTS		INITIAL TEST FAILURE		FIRST RETEST		SECOND OR SUBSEQUENT RETEST		SECOND OR SUBSEQUENT RETEST FAILURE		RECEIVE WAIVER		NO FINAL OUTCOME		TOTAL			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%		
GAS CAP	30	0.37%	0	0.00%	0	0.00%	1	0.01%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	31	0.38%
OBDDI	7,369	90.39%	336	4.12%	236	2.89%	27	0.33%	13	0.16%	0	0.00%	231	2.83%	7,704	94.50%		
EXHAUST	160	3.19%	23	0.28%	2	0.02%	0	0.00%	1	0.01%	0	0.00%	5	0.06%	266	3.26%		
OTHER*	125	1.53%	0	0.00%	2	0.02%	4	0.05%	11	0.13%	0	0.00%	109	1.34%	151	1.85%		
<b>TOTAL</b>	<b>7,784</b>	<b>95.49%</b>	<b>359</b>	<b>4.40%</b>	<b>240</b>	<b>2.94%</b>	<b>32</b>	<b>0.39%</b>	<b>25</b>	<b>0.31%</b>	<b>0</b>	<b>0.00%</b>	<b>345</b>	<b>4.23%</b>	<b>8,152</b>	<b>100.00%</b>		

Others include: WAIVER

# Test Summary Report (by vehicle type)

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[I/M Dashboard](#) | [Home](#) | [MANAGEMENT REPORTING](#) | [Station CS](#) | [IEPA Monitoring](#)

## Test Summary Report

Today  Yesterday  This Month  Select A Date Range   
 Group By:  Test Type  Station  Vehicle Type  Model Year  Region

[Print Test Summary](#) | [Export Test Summary](#)

VEHICLE TYPE	FAIL	% FAIL	PASS	% PASS	REJECT	% REJECT	TOTAL	% TOTAL
HD TRUCK	26	0.32%	206	2.56%	13	0.16%	245	3.04%
LD TRUCK	165	2.05%	2,992	37.15%	123	1.53%	3,280	40.73%
PASSENGER	217	2.69%	3,929	48.79%	179	2.22%	4,325	53.71%
NOT AVAILABLE	15	0.19%	40	0.50%	148	1.84%	203	2.52%
<b>TOTAL</b>	<b>423</b>	<b>5.25%</b>	<b>7,167</b>	<b>89.00%</b>	<b>463</b>	<b>5.75%</b>	<b>8,053</b>	<b>100.00%</b>

VEHICLE TYPE	INITIAL TESTS		INITIAL TEST FAILURE		FIRST RETEST		SECOND OR SUBSEQUENT RETEST		SECOND OR SUBSEQUENT FAILURE		RECEIVE WAIVER		NO FINAL OUTCOME		TOTAL	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
HD TRUCK	239	2.97%	22	0.27%	2	0.02%	0	0.00%	1	0.01%	0	0.00%	0	0.00%	245	3.04%
LD TRUCK	3,151	39.13%	150	1.86%	99	1.23%	11	0.14%	6	0.07%	0	0.00%	91	1.13%	3,280	40.73%
PASSENGER	4,124	51.21%	179	2.22%	137	1.70%	15	0.19%	7	0.09%	0	0.00%	131	1.63%	4,325	53.71%
NOT AVAILABLE	176	2.19%	1	0.01%	2	0.02%	5	0.06%	11	0.14%	4	0.05%	113	1.40%	203	2.52%
<b>TOTAL</b>	<b>7,690</b>	<b>95.49%</b>	<b>352</b>	<b>4.37%</b>	<b>240</b>	<b>2.98%</b>	<b>31</b>	<b>0.38%</b>	<b>25</b>	<b>0.31%</b>	<b>4</b>	<b>0.05%</b>	<b>335</b>	<b>4.16%</b>	<b>8,053</b>	<b>100.00%</b>

Version: V.1.4.1  


# Test Summary Report (by region)

## Test Summary Report

© Today © Yesterday © This Month © Select A Data Range

Group By:  Test Type  Station  Vehicle Type  Model Year  Region

[Print Test Summary](#) | [Export Test Summary](#)

REGION	FAIL	% FAIL	PASS	% PASS	REJECT	% REJECT	TOTAL	% TOTAL
Chicago (NET)	373	4.77%	6,208	79.41%	409	5.23%	6,990	89.41%
Metro-East St. Louis (MESL)	37	0.47%	749	9.58%	42	0.54%	828	10.59%
<b>TOTAL</b>	<b>410</b>	<b>5.24%</b>	<b>6,957</b>	<b>88.99%</b>	<b>451</b>	<b>5.77%</b>	<b>7,818</b>	<b>100.00%</b>

REGION	INITIAL TESTS		INITIAL TEST FAILURE		FIRST RETEST		SECOND OR SUBSEQUENT RETEST		SECOND OR SUBSEQUENT RETEST FAILURE		RECEIVE WAIVER		NO FINAL OUTCOME		TOTAL	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Chicago (NET)	6,687	85.53%	316	4.04%	200	2.56%	29	0.37%	21	0.27%	4	0.05%	301	3.85%	6,990	89.41%
Metro-East St. Louis (MESL)	786	10.05%	28	0.36%	28	0.36%	1	0.01%	3	0.04%	0	0.00%	28	0.36%	828	10.59%
<b>TOTAL</b>	<b>7,473</b>	<b>95.59%</b>	<b>344</b>	<b>4.40%</b>	<b>228</b>	<b>2.92%</b>	<b>30</b>	<b>0.38%</b>	<b>24</b>	<b>0.31%</b>	<b>4</b>	<b>0.05%</b>	<b>329</b>	<b>4.21%</b>	<b>7,818</b>	<b>100.00%</b>



# Test Summary Report (by model year)

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**I/M Dashboard**

## Test Summary Report

Today Yesterday This Month Select A Date Range Search

Group BY Test Type Station Vehicle Type Model Year Region

Print Test Summary Export Test Summary

VEHICLE MODEL YEAR	FAIL	% FAIL	PASS	% PASS	REJECT	% REJECT	TOTAL	% TOTAL
1988	0	0.00%	0	0.00%	1	0.01%	1	0.01%
1993	0	0.00%	0	0.00%	1	0.01%	1	0.01%
1995	0	0.00%	0	0.00%	3	0.04%	3	0.04%
2010	0	0.00%	0	0.00%	1	0.01%	1	0.01%
<b>TOTAL</b>	<b>416</b>	<b>5.27%</b>	<b>7,023</b>	<b>88.98%</b>	<b>454</b>	<b>5.75%</b>	<b>7,893</b>	<b>100.00%</b>

VEHICLE MODEL YEAR	INITIAL TESTS		INITIAL TEST FAILURE		FIRST RETEST		SECOND OR SUBSEQUENT RETEST		SECOND OR SUBSEQUENT RETEST FAILURE		RECEIVE WAIVER		NO FINAL OUTCOME		TOTAL	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
1988	1	0.01%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%
1993	1	0.01%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%
2010	1	0.01%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	0.01%
<b>TOTAL</b>	<b>7,542</b>	<b>95.55%</b>	<b>347</b>	<b>4.40%</b>	<b>231</b>	<b>2.93%</b>	<b>30</b>	<b>0.38%</b>	<b>24</b>	<b>0.30%</b>	<b>4</b>	<b>0.05%</b>	<b>328</b>	<b>4.16%</b>	<b>7,893</b>	<b>100.00%</b>

Version: V1.4.1



# Test Search by Result Reason

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## Test Search by Result Reason

TEST ID	Date Time	Analyzer ID	PLATE	Year/Make/Model	Test Counter	Overall Result	Vehicle ID	Inspect
204402833	6/11/2010 9:35:58 AM	AL0131		1996 MAZD PLS	0	REJECT		IN00227
204402814	6/11/2010 9:37:45 AM	AL0225		2000 CHEV S	0	REJECT		IN00226
204402764	6/11/2010 9:31:26 AM	AL0271		2002 STRV SL2	1	REJECT		IN00225
204402754	6/11/2010 9:30:51 AM	AL0291		2000 FORD FPR	0	REJECT		IN00233
204402747	6/11/2010 9:27:35 AM	AL0011		2002 ASTO DBV	0	REJECT		IN00225
204402712	6/11/2010 9:27:31 AM	AL0133		1996 PLYM VOF	0	REJECT		IN00267
204402684	6/11/2010 9:24:56 AM	AL0112		2002 LEXS ES3	0	REJECT		IN00229
204402582	6/11/2010 9:15:30 AM	AL0223		1999 GMC YUK	0	REJECT		IN00227
204402514	6/11/2010 9:08:31 AM	AL0082		2000 NISS PFI	0	REJECT		IN00275
204402494	6/11/2010 9:08:17 AM	AL0223		1996 NISS AGS	0	REJECT		IN00229
204402478	6/11/2010 9:07:14 AM	AL0133		2001 LINC CON	1	REJECT		IN00267
-----								
204402179	6/11/2010 8:33:20 AM	AL0162		2004 NISS S18	0	REJECT		IN00228
204402065	6/11/2010 8:21:36 AM	AL0162		2006 DODG MGN	0	REJECT		IN00228
204402002	6/11/2010 8:14:55 AM	AL0161		2002 CHEV EXP	0	REJECT		IN00220
204401989	6/11/2010 8:12:43 AM	AL0271		2001 CHEV BZR	2	REJECT		IN00223
204401939	6/11/2010 8:08:41 AM	AL0161		2004 HYUN SOL	0	REJECT		IN00220
204401915	6/11/2010 8:06:07 AM	AL0072		2001 PONT BVS	2	REJECT		IN00225

Version: V.1.4.1



# Official Test Report

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**Official Test Report**    Video footage can be best viewed with this media player: [Download](#)

[Test Record Lookup Report \(click to View...\)](#)  
[Test Record Summary \(click to Hide...\)](#)  
[Print Summary](#)

Stations: [3 - CRYSTAL LAKE]  
 From 6/15/2010 To 6/15/2010  
 It took 00:00:00.0312500 (hh:mm:ss:Milliseconds)    Total Records: 344

VTN	Test Date Time	Test Type	Overall Result	Station ID	Lane Number	Images/Video
	6/15/2010 7:56:55 AM	OBDII Test	PASS	3	1	<a href="#">View</a>
	6/15/2010 7:57:48 AM	OBDII Test	PASS	3	3	<a href="#">View</a>
	6/15/2010 7:59:56 AM	OBDII Test	PASS	3	3	<a href="#">View</a>
	6/15/2010 8:00:32 AM	OBDII Test	PASS	3	1	<a href="#">View</a>
	6/15/2010 8:03:46 AM	OBDII Test	PASS	3	1	<a href="#">View</a>
	6/15/2010 8:03:54 AM	OBDII Test	PASS	3	3	<a href="#">View</a>
	6/15/2010 8:06:43 AM	OBDII Test	PASS	3	1	<a href="#">View</a>

Print Summary (Print Detail)																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">VEHICLE DETAILS</th> </tr> </thead> <tbody> <tr><td>VIN</td><td></td></tr> <tr><td>License Plate Number</td><td></td></tr> <tr><td>License Plate Type</td><td>002</td></tr> <tr><td>Record Update Time</td><td>6/15/2010 7:58:51 AM</td></tr> <tr><td>Record Upload Time</td><td>6/16/2008 4:09:37 AM</td></tr> <tr><td>Data Entry Source</td><td>R</td></tr> <tr><td>Peak Retries</td><td>0</td></tr> <tr><td>Recall Status</td><td>N</td></tr> <tr><td>Hardship Waiver</td><td>N</td></tr> <tr><td>Self Test Category</td><td>N</td></tr> </tbody> </table>	VEHICLE DETAILS		VIN		License Plate Number		License Plate Type	002	Record Update Time	6/15/2010 7:58:51 AM	Record Upload Time	6/16/2008 4:09:37 AM	Data Entry Source	R	Peak Retries	0	Recall Status	N	Hardship Waiver	N	Self Test Category	N	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">TEST DETAILS</th> </tr> </thead> <tbody> <tr><td>TEST ID</td><td>204426304</td></tr> <tr><td>Overall Result</td><td>PASS</td></tr> <tr><td>VTR Number</td><td></td></tr> <tr><td>Test Counter</td><td>1</td></tr> <tr><td>Offline Test</td><td>N</td></tr> <tr><td>Test Start Date Time</td><td>6/15/2010 7:56:55 AM</td></tr> <tr><td>Test End Date Time</td><td>6/15/2010 7:59:50 AM</td></tr> <tr><td>Record Upload Time</td><td>6/16/2008 4:09:37 AM</td></tr> </tbody> </table>	TEST DETAILS		TEST ID	204426304	Overall Result	PASS	VTR Number		Test Counter	1	Offline Test	N	Test Start Date Time	6/15/2010 7:56:55 AM	Test End Date Time	6/15/2010 7:59:50 AM	Record Upload Time	6/16/2008 4:09:37 AM																								
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">OBD DETAILS</th> </tr> </thead> <tbody> <tr><td>OBD Result</td><td>PASS</td></tr> <tr><td>Malfunction Status</td><td>READY</td></tr> <tr><td>Fuel Status</td><td>READY</td></tr> <tr><td>Component Status</td><td>READY</td></tr> <tr><td>Cat Status</td><td>READY</td></tr> <tr><td>Heated Cat Status</td><td>NOT SUPPORTED</td></tr> <tr><td>EVAP Status</td><td>READY</td></tr> <tr><td>Air Status</td><td>NOT SUPPORTED</td></tr> <tr><td>AC Status</td><td>NOT SUPPORTED</td></tr> <tr><td>O2 Status</td><td>READY</td></tr> <tr><td>Heated O2 Status</td><td>READY</td></tr> <tr><td>EGR Status</td><td>READY</td></tr> <tr><td>Number of DTCs</td><td>0</td></tr> <tr><td>DTCs</td><td></td></tr> <tr><td>OBD VIN</td><td>N/A</td></tr> <tr><td>VTN</td><td></td></tr> </tbody> </table>	OBD DETAILS		OBD Result	PASS	Malfunction Status	READY	Fuel Status	READY	Component Status	READY	Cat Status	READY	Heated Cat Status	NOT SUPPORTED	EVAP Status	READY	Air Status	NOT SUPPORTED	AC Status	NOT SUPPORTED	O2 Status	READY	Heated O2 Status	READY	EGR Status	READY	Number of DTCs	0	DTCs		OBD VIN	N/A	VTN		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">IDLE TEST DETAILS</th> </tr> </thead> <tbody> <tr><td>RPM Source</td><td></td></tr> <tr><td>HC Idle</td><td>0</td></tr> <tr><td>CO Idle</td><td>0</td></tr> <tr><td>CO2 Idle</td><td>0</td></tr> <tr><td>O2 Idle Precond</td><td></td></tr> <tr><td>RPM Before Precond</td><td>0</td></tr> <tr><td>Idle Sequence Number</td><td>0</td></tr> <tr><td>FUEL CAP RESULTS</td><td></td></tr> <tr><td>Fuel Cap OverAll Result</td><td></td></tr> <tr><td>Fuel Cap Result 1</td><td></td></tr> <tr><td>Fuel Cap Result 2</td><td></td></tr> <tr><td>Fuel Cap Result 3</td><td></td></tr> <tr><td>Fuel Cap Result 4</td><td></td></tr> <tr><td>Fuel Cap Suggested</td><td></td></tr> </tbody> </table>	IDLE TEST DETAILS		RPM Source		HC Idle	0	CO Idle	0	CO2 Idle	0	O2 Idle Precond		RPM Before Precond	0	Idle Sequence Number	0	FUEL CAP RESULTS		Fuel Cap OverAll Result		Fuel Cap Result 1		Fuel Cap Result 2		Fuel Cap Result 3		Fuel Cap Result 4		Fuel Cap Suggested	
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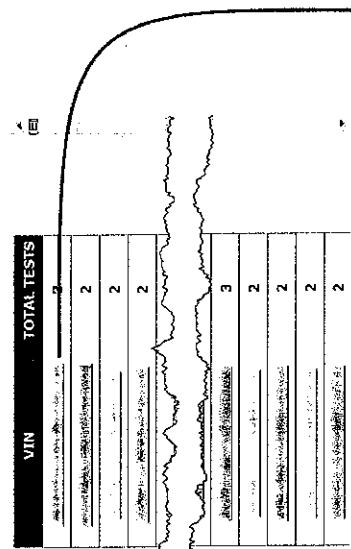
**I/M Dashboard**

**Retests Report**

Please Select A Date Range (Hide Date Panel...)

Start Date:  End Date:

Retests Details (Hide Panel...)



VIN	TOTAL TESTS
204371095	2
204371047	2
204329774	2
203976470	2

TEST_ID	VIN_ENTERED	OFFLINE_TEST_RESULT	START_DATE	TIME	STATION_ID	USER_ID	OVERALL_RESULT	TEST_TYPE	TEST_COUNTER
204371095	204371095	N	6/7/2010	8:39:16 AM	27	JN002708	P	O	4
204371047	204371047	N	6/7/2010	8:34:54 AM	27	JN002231	F	W	3
204329774	204329774	N	6/1/2010	7:32:56 AM	27	JN002273	F	O	3
203976470	203976470	N	4/8/2010	11:25:58 AM	27	JN002708	F	O	2

**I/M Dashboard**

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Monthly Compliance Status Report

May | Year: 2010 | Get Report

Print Report | Export To Excel

TEST ELIGIBILITY DATE	TEST BY DATE	ASSIGNED			COMPLETED			EXTENSION		OUTSTANDING		COMPLIANCE RATE	
		NOTIFICATION	ENFORCEMENT	PASSTEST	WAIIVER	OUT OF STATE	HARDSHIP	EXEMPTED	DELETED	TGO	NEVER TESTED		FAILED TEST
Jan 09	Apr 09	157,516	0	139,321	158	677	24	1,347	2,673	631	11,350	1,335	91.5%
Feb 09	May 09	166,837	0	147,267	165	772	22	1,397	2,941	693	12,194	1,386	91.4%
Mar 09	Jun 09	200,565	0	174,457	167	700	42	2,023	3,230	984	15,547	3,415	90.1%
Apr 09	Jul 09	167,562	0	147,043	149	624	28	1,406	2,675	661	13,345	1,631	90.7%
May 09	Aug 09	169,437	0	147,873	159	625	43	1,457	2,569	759	14,258	1,695	90.1%
Jun 10	2010	238,731	0	117,911	238	1,071	3	407	1,071	492	121,029	1,946	38.4%
Apr 10	Jul 10	200,318	0	75,426	7	244	1	402	771	492	121,029	1,946	38.4%
May 10	Aug 10	204,532	0	47,420	5	58	0	209	479	289	154,682	1,390	23.6%
<b>Totals:</b>		<b>2,923,961</b>	<b>0</b>	<b>2,160,054</b>	<b>1,904</b>	<b>9,210</b>	<b>487</b>	<b>20,049</b>	<b>34,981</b>	<b>15,019</b>	<b>643,202</b>	<b>39,055</b>	<b>76.2%</b>

Version: V.1.4.1



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Compliance Reports

Today
  This Week
  Last Week
  This Month
  Last Month
  Select A Date Range

Please Select A Date Range (Hide Date Panel...)

Start Date:	<input type="text" value="2/1/2010"/>
End Date:	<input type="text" value="6/10/2010"/>
<input type="button" value="Search"/>	

**Total Number of Passing/Failing vehicles - 2/1/2010 To 6/10/2010**

Save As Excel		Print
Result	Total	
Reject	30,070	
Pass	671,129	
Fail	23,204	

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# Network Compliance Status Report

## Data Item Description Report

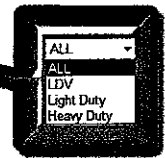
### Acronyms

DTC: Diagnostic Trouble Code    EGR: Exhaust Gas Recirculation  
 MIL: Malfunction Indicator Light    OBD: On-Board Diagnostics

Data collected between 5/1/2008 and 5/31/2010

Select Vehicle Type: ALL   

From start of May 2010    To end of May 2010



### OVERALL RESULTS

ALL From May 01, 2010 to May 31, 2010

Test Parameters	Number	Rate
Initial OBD Tests (Pass/Fail/Ready Reject)	163,942	N/A
Initial OBD Test Failures	9,079	5.5%
Initial OBD Fails - Codes/MIL On	8,392	5.1%
Initial OBD Ready Rejects	4,659	2.8%
Initial OBD Fails - Communications	336	0.2%
Initial OBD Fails - Damaged/Missing DLC	350	0.2%
1st OBD Retests (Pass/Fail/Ready Reject)	12,590	N/A
1st Retest OBD Failures	1,412	11.2%
1st Retest OBD Ready Rejects	7,834	14.6%
1st Retest CAT Ready Rejects	278	2.2%

### TOP 20 DTCs

DTC	DTC Description	%
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	6.5%
P0171	System too Lean (Bank 1)	5.1%
P0401	Exhaust Gas Recirculation Flow Insufficient Detected	4.4%
P0442	Evaporative Emission Control System Leak Detected (small leak)	3.8%
P0455	Evaporative Emission Control System Leak Detected (gross leak)	3.3%
P0174	System too Lean (Bank 2)	3.2%
P0440	Evaporative Emission Control System Malfunction	3.2%
P0302	Cylinder 2 Misfire Detected	1.3%
P0304	Cylinder 4 Misfire Detected	1.2%
P0128	DTC Code Description Not Available	1.2%
P0325	Knock Sensor 1 Circuit Malfunction (Bank 1 or Single Sensor)	1.2%

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# Throughput Report

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## Throughput Report

Today    This Week    Last Week    This Month    Last Month    Select A Date Range  
 7    8    9    10    11    12    1    2    3    4    5    6  
 Lane Info    Count    Detail    Select Hour

Station ID	Station Name	Vehicle Count
+ 1	WAUKEGAN	41
+ 3	CRYSTAL LAKE	69
- 4	LINCOLNSHIRE	58

STATION_ID	STATION_NAME	LANE_NUM	TEST_START	TEST_END
4	LINCOLNSHIRE	1	6/15/2010 10:09:44 AM	6/15/2010 10:11:21 AM
4	LINCOLNSHIRE	1	6/15/2010 10:12:51 AM	6/15/2010 10:13:55 AM
4	LINCOLNSHIRE	1	6/15/2010 10:14:54 AM	6/15/2010 10:16:16 AM
4	LINCOLNSHIRE	1	6/15/2010 10:17:44 AM	6/15/2010 10:18:35 AM
4	LINCOLNSHIRE	1	6/15/2010 10:19:57 AM	6/15/2010 10:21:05 AM

4	LINCOLNSHIRE	3	6/15/2010 10:59:13 AM	6/15/2010 11:00:14 AM
---	--------------	---	-----------------------	-----------------------

+ 7	SCHAUMBURG	80
+ 8	ELK GROVE VILLAGE	56
+ 11	ADDISON	80
+ 12	SKOKIE	66
+ 13	FOREST PRESERVE	77
+ 16	WEBSTER	75
+ 22	BEDFORD PARK	116
+ 24	NAPERVILLE	140
+ 26	JOLIET	67
+ 27	MARKHAM	92
+ 30	PONTOON BEACH	26
+ 53	SWANSEA	31
+ 54	TINLEY PARK	30

Sum 1104

# Tachometer Override/Fallback Test Report by OBD

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## Tachometer Override/Fallback Test Report

### TEST TYPE

OBD Test  IDLE Test

Today    This Week    Last Week    This Month    Last Month    Select A Date Range  

Rollback Test Summary (Hide Panel...)

TOTAL TESTS	TEST DATE
150	6/12/2010
226	6/11/2010
196	6/10/2010
192	6/9/2010
225	6/8/2010
267	6/7/2010

C_PLATE	STATION_ID	LANE_NUM	USER_ID	TEST_DATE
IN002273	27	3	IN002273	6/12/2010 7:50:43 AM
IN002320	30	1	IN002320	6/12/2010 7:53:20 AM
IN002619	27	4	IN002619	6/12/2010 7:57:02 AM
IN002319	30	2	IN002319	6/12/2010 7:57:51 AM
IN002235	3	3	IN002235	6/12/2010 7:58:36 AM
IN002696	4	4	IN002696	6/12/2010 12:40:04 PM
IN002409	24	3	IN002409	6/12/2010 12:43:50 PM
IN002235	3	3	IN002235	6/12/2010 12:46:44 PM
IN002251	16	4	IN002251	6/12/2010 12:49:04 PM
IN002286	24	6	IN002286	6/12/2010 12:53:57 PM
IN002405	7	4	IN002405	6/12/2010 12:54:31 PM
IN002368	4	3	IN002368	6/12/2010 12:56:58 PM
IN002235	3	3	IN002235	6/12/2010 12:57:20 PM
IN002259	1	3	IN002259	6/12/2010 12:58:37 PM

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# Tachometer Override/Fallback Test Report by Idle

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### Tachometer Override/Fallback Test Report

#### TEST TYPE

OBD Test     IDLE Test

Today     This Week     Last Week     This Month     Last Month     Select A Date Range   

Fallback Test Summary    (Hide Panel...)

TOTAL TESTS	TEST DATE
15	6/12/2010
20	6/11/2010
30	6/10/2010
50	6/9/2010
44	6/8/2010
27	6/7/2010

LIC_PLATE	STATION_ID	LANE_NUM	USER_ID	TEST_START_DATE_TIME
	27	1	IN002234	6/12/2010 7:55:11 AM
	11	1	IN002178	6/12/2010 7:57:26 AM
	54	3	IN002664	6/12/2010 8:04:07 AM
	11	4	IN002752	6/12/2010 8:29:14 AM
	22	4	IN002297	6/12/2010 8:46:06 AM
	7	1	IN002463	6/12/2010 9:29:44 AM
	27	4	IN002619	6/12/2010 10:52:07 AM
	22	5	IN002673	6/12/2010 10:52:34 AM
	16	3	IN002251	6/12/2010 11:47:00 AM
	8	1	IN002207	6/12/2010 12:11:05 PM
	16	4	IN002251	6/12/2010 12:18:51 PM
	22	4	IN002274	6/12/2010 12:27:42 PM
	54	3	IN002664	6/12/2010 12:31:55 PM

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# OBD VIN Mismatch Report

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**I/M Dashboard**

## OBD VIN Mismatches Report

Station : 24 - NAPERVILLE    Start Date: 6/1/2010    End Date: 6/15/2010    [Get Report](#)

[Print Report](#)

TEST ID	LIC PLATE	TEST DATE TIME	TEST TYPE	ENTERED VIN	OBD VIN	STATION ID	STATION NAME	LANE #	Images/Video
204356082		6/3/2010 4:18:46 PM	0			24	NAPERVILLE	3	<a href="#">View</a>
204357389		6/4/2010 8:43:24 AM	0			24	NAPERVILLE	1	<a href="#">View</a>
204386102		6/8/2010 3:09:02 PM	0			24	NAPERVILLE	3	<a href="#">View</a>
204388381		6/9/2010 9:12:13 AM	0			24	NAPERVILLE	3	<a href="#">View</a>
204396999		6/10/2010 10:58:51 AM	0			24	NAPERVILLE	2	<a href="#">View</a>
204401341		6/10/2010 4:46:03 PM	0			24	NAPERVILLE	2	<a href="#">View</a>
204406732		6/11/2010 1:55:23 PM	0			24	NAPERVILLE	3	<a href="#">View</a>
204412868		6/12/2010 10:31:10 AM	0			24	NAPERVILLE	2	<a href="#">View</a>
204414817		6/12/2010 12:05:21 PM	0			24	NAPERVILLE	2	<a href="#">View</a>
204418072		6/14/2010 10:20:10 AM	0			24	NAPERVILLE	6	<a href="#">View</a>
204419374		6/14/2010 11:23:38 AM	0			24	NAPERVILLE	5	<a href="#">View</a>
204420908		6/14/2010 12:34:33 PM	0			24	NAPERVILLE	6	<a href="#">View</a>

Total number of records : 12

Version: V.1.4.1



# OBD Fallback Report

## OBD Fallback Report

Start Date:     End Date:    

Make	Model	Fallback Tests Performed	Fallback Percentage
------	-------	--------------------------	---------------------

<input type="checkbox"/>	BMW	ROADSTER	
--------------------------	-----	----------	--

<input type="checkbox"/>	FORD	MUSTANG	
--------------------------	------	---------	--

Test ID	Date and Time	Analyzer ID	License Plate	Model Year	Result	Test Counter	Vehicle ID	Inspector
204293580	5/25/2010 2:08:25 PM	AL0132		2002	P	1		IN002753

<input type="checkbox"/>	FORD	MUSTANG	
--------------------------	------	---------	--

Test ID	Date and Time	Analyzer ID	License Plate	Model Year	Result	Test Counter	Vehicle ID	Inspector
204383018	6/9/2010 11:38:34 AM	AL0072		1998	P	1		IN002250
204425789	6/14/2010 5:06:20 PM	AL0133		2001	P	1		IN002696

<input type="checkbox"/>	FORD	MUSTANG	
--------------------------	------	---------	--

<input type="checkbox"/>	FORD	MUSTANG	
--------------------------	------	---------	--

<input type="checkbox"/>	FORD	MUSTANG	
--------------------------	------	---------	--

# Statistical Process Controls

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Statistical Process Controls

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

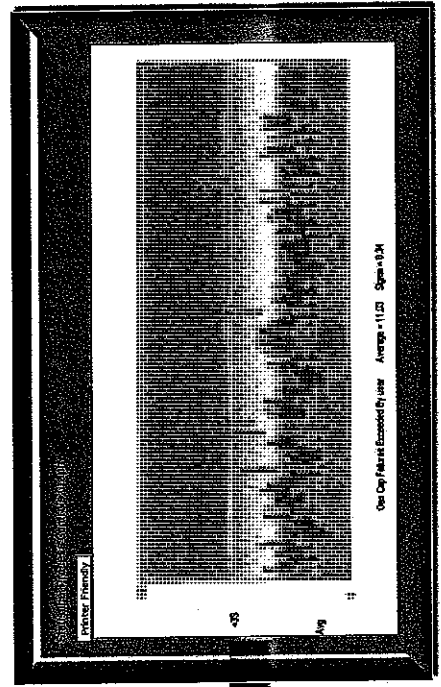
Gas Cap Failures Exceeded By user

4/7/2010

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

6/11/2010

Display Graph



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### Monthly/Annual Quarterly Control Reports

**MONTHLY\_AUD\_TEST\_REPORT\_01\_2010.xml**   

**MONTHLY\_AUD\_TEST\_REPORT\_02\_2009.xml**

**MONTHLY\_AUD\_TEST\_REPORT\_03\_2009.xml**

**MONTHLY\_AUD\_TEST\_REPORT\_04\_2009.xml**

**Month/Year Represented: 1/2010**

This report was generated electronically on: 1/18/2010 6:30:00 PM

**Audits By Station:**

Station ID	EQ Passing	EQ Failing	EQ Fail Rate	OY Performed	OY Avg Rating
<b>Audits By Facility Type:</b>					
Station Type	EQ Passing	EQ Failing	EQ Fail Rate	OY Audited	OY Avg Rating
FULL SERVICE	0	0	0.00 %	0	0
OBD ONLY	0	0	0.00 %	0	0
MEINKE	0	0	0.00 %	0	0
SELF SERVICE	0	0	0.00 %	0	0
FLEET	0	0	0.00 %	0	0

**Stations "In-Use":**

Stations In-Use For Given Time Period: **51 stations**

---

**Emissions Tests By Station:**

Station ID	Emissions Tests	Aborted Tests	Aborted Test Rate
<b>Total for All Stations:</b>	<b>79,426</b>	<b>2</b>	<b>00.00 %</b>
001	3,435	0	00.00 %
003	3,820	0	00.00 %
004	4,648	0	00.00 %
007	4,681	0	00.00 %
009	3,912	0	00.00 %
402	65	0	00.00 %
403	33	0	00.00 %
404	53	0	00.00 %
405	233	0	00.00 %

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**Quarterly/Annual Repair Reports**

© This Quarter  This Year  Last Year  Select A Date Range

Quarter	Total Number of Repair Shops		Average Shop REI		Successful Repairs		UnSuccessful Repairs		Total Number of Repairs	
	All Shops	RPR Listed	All Repairs	RPR Repairs	All Repairs	RPR Repairs	All Repairs	RPR Repairs	All Repairs	RPR Repairs
Jan-2009	8,124	3,603	73.21%	74.92%	12,096	1,711	1,767	523	13,863	2,234
Apr-2009	8,124	3,603	73.21%	74.92%	12,104	1,775	1,536	493	13,640	2,268

Version: V.1.4.1



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Gas Audit Report

© Today © This Week © Last Week © This Month © Last Month © Select A Date Range  Search

Gas Audit Table (Hide Panel...)

WORKSTATION_ID	GAS_AUDIT_ID	GAS_AUDIT_DATE_TIME	GAS_AUDIT_OVERALL_RESULT
AL0071	Z0221808	6/7/2010 10:30:07 AM	P
AL0092	Z0223593	6/10/2010 8:26:22 AM	P
AL0131	Z0293330	6/10/2010 1:55:29 PM	P
AL0133	Z0298777	6/10/2010 3:26:17 PM	P
AL026			
AL0074			
AL0222			
AL0224			

WORKSTATION ID	RESULTS	RELATIVE ERROR	CO2	CO	H2C	NOX	O2
7027583	SCALE	PERCENT	RESULT	RESULT	RESULT	RESULT	RESULT
AL0032	TIME	SCALE	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
8:26:07 AM	0	0	0.36	0.02	10	26	0

Version: V11.4.1

**ILLINOIS AIR TEAM**  
FOR THE ILLINOIS DEPARTMENT OF ENVIRONMENT

# Salt Lake County Vehicle Emissions Program Implementation

ID	Task Name	Duration	Start	Finish	Predecessors
1	<b>PROGRAM IMPLEMENTATION</b>	293 days	Wed 9/1/10	Fri 10/14/11	
2	KICKOFF MEETING and MINUTES	1 day	Wed 9/1/10	Wed 9/1/10	
3	<b>PROJECT MANAGEMENT PLAN</b>	60 days	Wed 9/1/10	Tue 11/23/10	
4	Develop Project Management Plan	30 days	Wed 9/1/10	Tue 10/12/10	
5	Deliver Project Management Plan to Department	1 day	Wed 10/13/10	Wed 10/13/10	4
6	Review Project Management Plan with Department	7 days	Thu 10/14/10	Fri 10/22/10	5
7	Appius+ Modify Plan and Resubmit to Department	14 days	Mon 10/25/10	Thu 11/11/10	6
8	Review Project Management Plan with Department for Approval	7 days	Fri 11/12/10	Mon 11/22/10	7
9	Implement Approved Plan	1 day	Tue 11/23/10	Tue 11/23/10	8
10	<b>IMPLEMENTATION SCHEDULE</b>	60 days	Wed 9/1/10	Tue 11/23/10	
11	Develop Implementation Schedule	30 days	Wed 9/1/10	Tue 10/12/10	
12	Deliver Implementation Schedule to Department	1 day	Wed 10/13/10	Wed 10/13/10	11
13	Review Department Review and Approval Process	7 days	Thu 10/14/10	Fri 10/22/10	12
14	Modify Appius+ Schedule and Resubmit	14 days	Mon 10/25/10	Thu 11/11/10	13
15	Finalize Department Review and Approval Schedule	7 days	Fri 11/12/10	Mon 11/22/10	14
16	Implement Schedule Approval and Implementation Process	1 day	Tue 11/23/10	Tue 11/23/10	15
17	<b>ESTABLISH PROGRAM MANAGEMENT TEAM</b>	120 days	Wed 9/1/10	Tue 2/15/11	
18	Appoint Program Manager	120 days	Wed 9/1/10	Tue 2/15/11	
19	Appoint Accountant/Call Center Manager	120 days	Wed 9/1/10	Tue 2/15/11	
20	Appoint Systems Administrator	120 days	Wed 9/1/10	Tue 2/15/11	
21	Appoint Field Service Manager	120 days	Wed 9/1/10	Tue 2/15/11	
22	Appoint Field Service Technicians	120 days	Wed 9/1/10	Tue 2/15/11	
23	<b>STAFF IMPLEMENTATION PHASE</b>	120 days	Wed 9/1/10	Tue 2/15/11	
24	Appoint Equipment Installation Manager	120 days	Wed 9/1/10	Tue 2/15/11	
25	Appoint Transition Coordinator	120 days	Wed 9/1/10	Tue 2/15/11	
26	<b>STATUS REPORTING</b>	262 days	Wed 9/1/10	Thu 9/1/11	
27	<b>STATUS REPORTS</b>	240 days	Fri 10/1/10	Thu 9/1/11	
28	Deliver Status Report	240 days	Fri 10/1/10	Thu 9/1/11	
29	<b>STATUS MEETINGS</b>	129 days	Wed 9/1/10	Mon 2/28/11	
30	Weekly Status Meeting w/Minutes	129 days	Wed 9/1/10	Mon 2/28/11	
31	<b>INSPECTION FACILITIES</b>	293 days	Wed 9/1/10	Fri 10/14/11	
32	Implement Station Recruiting Plan	90 days	Wed 9/1/10	Tue 1/4/11	
33	Design Station ATPs	30 days	Mon 9/5/10	Fri 10/14/11	32
34	Inspect Stations	64 days	Wed 9/1/10	Mon 11/29/10	
35	Formally Approve Stations	56 days	Tue 11/30/10	Tue 2/15/11	34
36	<b>ESTABLISH ENROLLMENT PERIOD FOR STATIONS to ORDER INSPECTION EC</b>	261 days	Mon 9/6/10	Mon 9/5/11	
37	<b>QUALITY ASSURANCE and RELIABILITY</b>	125 days	Wed 9/1/10	Tue 2/22/11	
38	Inspection Station Project Status Meeting	125 days	Wed 9/1/10	Tue 2/22/11	
39	Establish Approved Suppliers	55 days	Wed 9/1/10	Tue 11/16/10	
40	<b>PROJECT CHANGE CONTROL</b>	61 days	Wed 9/1/10	Wed 11/24/10	
41	Develop Change Request Recording Database	61 days	Wed 9/1/10	Wed 11/24/10	
42	Develop Change Request Process	61 days	Wed 9/1/10	Wed 11/24/10	
43	Implement Change Request and Acceptance Procedures	61 days	Wed 9/1/10	Wed 11/24/10	
44	Establish Department Review Processes	61 days	Wed 9/1/10	Wed 11/24/10	
45	<b>OPERATIONS PLAN</b>	129 days	Wed 9/1/10	Mon 2/28/11	
46	Develop Staffing Plan	120 days	Wed 9/1/10	Tue 2/15/11	
47	Establish Personnel Chart	120 days	Tue 9/14/10	Mon 2/28/11	
48	Develop Training & Certification Program	120 days	Tue 9/14/10	Mon 2/28/11	
49	Develop Equipment Maintenance, QA, QC Plans	120 days	Tue 9/14/10	Mon 2/28/11	
50	<b>SOFTWARE / HARDWARE DEVELOPMENT</b>	120 days	Wed 9/1/10	Tue 2/15/11	
51	<b>SOFTWARE</b>	105 days	Wed 9/1/10	Tue 1/25/11	
52	System Design, appearance, security, interaction	12.5 days	Wed 9/1/10	Fri 9/17/10	
53	Database (design, interface)	10 days	Fri 9/17/10	Fri 10/1/10	52
54	User Access	5 days	Fri 10/1/10	Fri 10/8/10	53
55	Tests (OBD, TSI, Gas Cap)	25 days	Fri 10/8/10	Fri 11/12/10	54
56	Training Mode	5 days	Fri 11/12/10	Fri 11/19/10	55
57	VIN Decoding	5 days	Fri 11/19/10	Fri 11/26/10	56
58	System Status/Lockouts	5 days	Fri 11/26/10	Fri 12/3/10	57
59	VIRts	5 days	Fri 12/3/10	Fri 12/10/10	58
60	Testing	20 days	Fri 12/10/10	Fri 1/7/11	59
61	Approval	12.5 days	Fri 1/7/11	Tue 1/25/11	60
62	<b>HARDWARE</b>	50 days	Wed 9/1/10	Tue 1/19/10	
63	Cabinet Design/Schematics	15 days	Wed 9/1/10	Tue 9/21/10	
64	Power Entry	3.75 days	Wed 9/22/10	Mon 9/27/10	63

**Appendix C: Gantt Chart Information**

The Gantt Chart provided on the following pages serves as an Implementation Schedule for the proper and timely execution of all Salt Lake County program deliverables.

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I/M Dashboard

Voiced Test Report

GROUP BY

DATE  STATIONS

Today  This Week  Last Week  This Month  Last Month  Select A Date Range

Start Date:

End Date:

Voiced Test Summary (Hide Panel...)

TOTAL VOICED TESTS	TEST DATE
1	5/14/2010
1	5/17/2010
2	5/11/2010
3	5/10/2010
3	4/7/2010
2	4/6/2010
1	4/5/2010

LIC	PLATE	STATION_ID	STATION_NAME	USER_ID	TEST_DATE	TIME
54		TINLEY PARK	IN002354	4/7/2010	12:11:08 PM	
22		REDFORD PARK	IN002225	4/7/2010	3:04:37 PM	
7		SCHAUMBURG	IN002194	4/7/2010	5:08:34 PM	

### I/M Dashboard

#### Voided Test Report

GROUP BY

DATE  STATIONS

Today
  This Week
  Last Week
  This Month
  Last Month
  Select A Date Range

Start Date:    
 End Date:

Voided Test Summary (Hide Panel...)

TOTAL VOIDED TESTS	STATION NAME
2	ADDISON
9	BEEFORD PARK
7	CRYSTAL LAKE
4	ELK GROVE VILLAGE
	FOREST
1	WEBSTER
7	WOOD RIVER

LIC_PLATE	STATION_ID	STATION_NAME	USER_ID	TEST_START_DATE	TIME
	11	ADDISON	IN002202	4/29/2010	12:24:51 PM
	11	ADDISON	IN002634	5/19/2010	12:22:59 PM



# Waiver Report

### Vaiver Report

Today   
 This Week   
 Last Week   
 This Month   
 Last Month   
 Select A Date Range   

Start Date:

End Date:

[Print Test Summary](#)

Test Date & Time	License Plate	User ID	Station	Overall Result	Document Archive	Waiver Checklist
6/11/2010 10:17:29 AM	[REDACTED]	IN002124	MARKHAM	FAIL	Open	View
6/11/2010 9:58:46 AM	[REDACTED]	IN002191	FOREST PRESERVE	FAIL	Open	View
6/11/2010 9:56:46 AM	[REDACTED]	IN002538	FOREST PRESERVE	FAIL	Open	View
6/10/2010 6:06:29 PM	[REDACTED]	IN002319	PONTOON BEACH	PASS	Open	View
6/10/2010 5:31:59 PM	[REDACTED]	IN002538	FOREST PRESERVE	PASS	Open	View
6/10/2010 5:08:43 PM	[REDACTED]	IN002197	BEDFORD PARK	FAIL	Open	View
6/10/2010 5:07:23 PM	[REDACTED]	IN002302	FOREST PRESERVE	PASS	Open	View
6/1/2010 9:33:56 AM	[REDACTED]	IN002619	MARKHAM	FAIL	Open	View
6/1/2010 9:23:12 AM	[REDACTED]	IN002213	BEDFORD PARK	FAIL	Open	View
6/1/2010 9:07:23 AM	[REDACTED]	IN002213	BEDFORD PARK	FAIL	Open	View
6/1/2010 9:00:36 AM	[REDACTED]	IN002198	NAPERVILLE	FAIL	Open	View
6/1/2010 8:31:42 AM	[REDACTED]	IN002191	FOREST PRESERVE	FAIL	Open	View

**Test Counts**

Failing Waiver	Passing Waiver
<b>172</b>	<b>82</b>

**Waiver Checklist**

	YES	NO
1. The Vehicle has been tested at least twice and has failed to comply with emissions standards.	<input checked="" type="radio"/>	<input type="radio"/>
2. A minimum of \$450 in emissions-related repairs (excluding tampering related repairs) have been made.	<input checked="" type="radio"/>	<input type="radio"/>
3. All eligible emissions-related	<input checked="" type="radio"/>	<input type="radio"/>

**Document(s)**

1. 204403410(1).pdf

→ Displays repair invoice

# Voucher Report

## Voucher Details Report

Today 
  This Week 
  Last Week 
  This Month 
  Last Month 
  Select A Date Range

Start Date:    
 End Date:

STATIONS	NOT USED	USED	VOID	TOTAL
ADDISON	0	9	0	9
BEDFORD PARK	2	51	0	53
CRYSTAL LAKE	0	10	0	10
ELK GROVE VILLAGE	0	19	1	19
FOREST PRESERVE	4	63	1	67
JOLIET	0	14	0	14
LINCOLNSHIRE	1	27	1	28
MARKHAM	3	43	1	46
NAPERVILLE	0	39	2	39
PONTOON BEACH	0	2	0	2
SCHAUMBURG	2	24	0	26
SKOKIE	2	46	1	48
SWANSEA	0	8	0	8
TINLEY PARK	1	4	0	5
WAUKEGAN	0	32	3	32
WEBSTER	2	95	3	97
WOOD RIVER	0	1	0	1
<b>TOTAL</b>	<b>17</b>	<b>487</b>	<b>13</b>	<b>504</b>



# Lockout Trigger Report

Welcome    Helpful Links    Update Profile    Change password    Administration Tools    Logout

**I/M Dashboard**

Home    MANAGEMENT REPORTING    Station CS    IEPA Monitoring

## Lockout Trigger Report

Search    Station:  Select...     Locked WorkStation

ID	LOCKED	START DATE	END DATE	START USER	END USER	LAST UPDATE	UPDATED BY	LOCKOUT
AL0001	201	F	12/1/2007 8:00:00 AM			10/9/2008 1:54:28 PM		5/7/2010 4:16:17 PM
AL0002	201	F	4/10/2008 7:59:27 AM			7/1/2008 10:52:13 AM		4/23/2008 8:06:53 PM
AL0004	4	1						
AL0012	1	F	6/10/2010 10:18:43 AM			4/9/2008 2:58:19 PM		6/11/2010 6:56:02 AM
AL0013	1	F	6/10/2010 9:24:27 AM			4/9/2008 2:58:25 PM		6/11/2010 10:11:35 AM
AL0041	4	O	6/11/2010 6:47:20 AM			4/9/2008 3:03:20 PM		6/11/2010 10:10:38 AM
AL0043	4	F	6/11/2010 6:55:30 AM			4/9/2008 3:03:42 PM		6/11/2010 10:12:41 AM
AL0071	7	F	6/11/2010 7:07:25 AM			4/9/2008 3:05:12 PM		6/11/2010 10:11:44 AM
AL0072	7	F	6/11/2010 7:02:11 AM			4/9/2008 3:05:18 PM		6/11/2010 10:12:38 AM
AL0084	8	O	7/20/2009 6:00:20 AM			7/6/2009 2:03:55 PM		7/20/2009 6:01:30 AM
AL0114	11	O	6/11/2010 6:45:08 AM			7/21/2008 12:08:56 PM		6/11/2010 10:12:39 AM
AL0115	11	F	5/11/2010 4:50:41 PM			4/8/2008 11:14:13 AM		5/17/2010 5:49:30 PM

### WorkStation Lock Detail

ID	LOCKED	START DATE	END DATE	START USER	END USER	LAST UPDATE	UPDATED BY	LOCKOUT
.0112Y		5/10/2010 6:35:47 AM				4/20/2008 12:46:17 PM		OBD Check Required
.0112N		5/24/2010 6:27:47 AM	6/9/2010 3:24:57 PM		12345678	12/7/2009 8:27:45 AM		LPR Failure
.0112N		7/22/2008 8:09:40 PM	7/22/2008 8:09:48 PM		RT000355	7/21/2008 8:34:18 PM		Too Many Offline Records
.0112N		7/22/2008 7:28:10 PM	7/22/2008 7:28:14 PM		RT000353	7/22/2008 7:28:10 PM		Warmup In Progress
.0112N		3/11/2010 4:32:02 PM	3/11/2010 4:34:04 PM			6/20/2009 10:04:01 AM		Exceeded
.0112N		6/7/2010 6:37:40 AM	6/7/2010 6:40:12 AM		IND02178	4/20/2008 2:53:19 PM		DVR Failure
.0112N		7/22/2008 7:28:08 PM	7/22/2008 7:28:14 PM		RT000353	7/22/2008 7:28:08 PM		Cabinet Tampering
.0112N		7/22/2008 7:28:08 PM	7/22/2008 7:28:14 PM		RT000353	7/22/2008 7:28:08 PM		Vehicle Lookup Table Corrupted

Version: V.1.4.1



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I/M Dashboard

Trigger Reporting Suite

Today This Week Last Week Last Month Last Month Select A Data Range

Trigger Reporting Suite - 6/16/2010 To 6/16/2010 - 600 sec						Save As Excel	Print
VIN	Elapsed Time(HH:MM:SS)	Test Date	Test Time(s)	Station ID(s)	Lane Operator(s)	Test Result(s)	
	0:1:36	6/16/2010	08:22:51	13	IN002191	F	
			08:24:27	13	IN002314	P	
	0:6:10	6/16/2010	08:35:45	22	IN002297	R	
			08:41:55	22	IN002297	R	
	0:6:51	6/16/2010	09:09:11	24	IN002256	R	
			09:16:02	24	IN002277	P	
	0:8:50	6/16/2010	09:12:49	22	IN002269	R	
			09:21:39	22	IN002750	R	
	0:6:29	6/16/2010	09:17:54	7	IN002250	R	
			09:24:23	7	IN002750	P	
			10:25:16	16	IN002295	R	
	0:5:51	6/16/2010	10:43:29	1	IN002200	F	
			10:49:20	1	IN002259	P	
	0:6:2	6/16/2010	10:43:31	22	IN002297	R	
			10:49:33	22	IN002297	P	
	0:4:58	6/16/2010	10:53:43	7	IN002463	R	
			10:58:41	7	IN002250	P	
	0:7:30	6/16/2010	11:00:27	27	IN002708	R	
			11:07:57	27	IN002619	R	
	0:8:50	6/16/2010	11:25:07	27	IN002619	R	
			11:33:57	27	IN002732	R	
	0:9:23	6/16/2010	11:36:17	12	IN002310	R	
			11:45:40	12	IN002252	P	
	0:6:35	6/16/2010	11:41:33	22	IN002197	R	
			11:48:08	22	IN002197	P	



# Calibration Report: Gas Leak Check, OBDII Gas Cap

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**Calibration Report**  
**Station:** 30 - PONTOON BEACH   **Lane:** 1

Today    This Week    Last Week    This Month    Last Month    Select A Date Range  

[Print Report](#)

## CALIBRATION REPORT

June 6, 2010 thru June 12, 2010

**Station:** 30 - PONTOON BEACH  
**Lane:** 1

### GAS CALIBRATION

Type	Date/Time	User Name	PEF	Overall result	HC				CO				CO2			
					Expected	Actual	Delta	P/F	Expected	Actual	Delta	P/F	Expected	Actual	Delta	P/F
Zero	6/10/2010 7:19:38 AM	IN002328	0.493	PASS	0.4930	0	0.4930	PASS	0	0.00	0.00	PASS	0	0.00	0.00	PASS
Low Span	6/10/2010 7:29:34 AM	IN002328	0.493	PASS	147.4070	148	0.5930	PASS	1.01	1.00	0.01	PASS	6.02	5.74	0.28	PASS
Low Span	6/7/2010 7:13:09 AM	IN002328	0.493	PASS	147.4070	151	3.5930	PASS	1.01	0.00	0.01	PASS	6.02	5.74	0.28	PASS
High Span	6/7/2010 7:13:09 AM	IN002328	0.493	PASS	591.1070	586	5.1070	PASS	4.01	3.97	0.04	PASS	12	11.97	0.03	PASS

### SINGLE POINT/MULTI POINT GAS AUDIT

Type	Date/Time	User Name	PEF	Overall result	HC				CO				CO2			
					Expected	Actual	Delta	P/F	Expected	Actual	Delta	P/F	Expected	Actual	Delta	P/F
Single Pt Audit	6/15/2010 8:30:13 AM	GHANUS	0.491	PASS	205.0910	290	5.0910	PASS	2.01	1.96	0.05	PASS	8.01	7.66	0.15	PASS

### LEAK CHECK

Type	Date/Time	User Name	P/F
Leak Check	6/12/2010 7:11:33 AM	IN002328	PASS
Leak Check	6/11/2010 6:49:16 AM	IN002329	PASS
Leak Check	6/10/2010 7:23:19 AM	IN002328	PASS
Leak Check	6/8/2010 6:36:49 AM	IN002319	PASS
Leak Check	6/7/2010 7:17:26 AM	IN002328	PASS

### GAS CAP CALIBRATION

Type	Date/Time	User Name	P/F
Gas Cap Pass	6/12/2010 7:14:30 AM	IN002328	PASS
Gas Cap Fail	6/12/2010 7:14:30 AM	IN002328	PASS
Gas Cap Pass	6/11/2010 6:48:45 AM	IN002329	PASS
Gas Cap Pass	6/7/2010 7:18:38 AM	IN002328	PASS
Gas Cap Fail	6/7/2010 7:18:38 AM	IN002328	PASS

### OBD II Check

Type	Date/Time	User Name	P/F
OBD II	6/12/2010 7:22:51 AM	IN002328	PASS
OBD II	6/11/2010 6:52:30 AM	IN002329	PASS
OBD II	6/10/2010 7:35:04 AM	IN002328	PASS
OBD II	6/8/2010 6:36:34 AM	IN002319	PASS
OBD II	6/7/2010 7:29:39 AM	IN002328	PASS

### GAS CAP AUDIT

Type	Date/Time	User Name	P/F
Gas Cap Audit - BLACK	6/12/2010 7:20:49 AM	IN002328	PASS
Gas Cap Audit - RED	6/12/2010 7:20:49 AM	IN002328	PASS
Gas Cap Audit - GRAY	6/12/2010 7:20:49 AM	IN002328	PASS
Gas Cap Audit - BLUE	6/7/2010 7:20:18 AM	IN002328	PASS
Gas Cap Audit - GREEN	6/7/2010 7:20:18 AM	IN002328	PASS
Gas Cap Audit - YELLOW	6/7/2010 7:20:18 AM	IN002328	PASS

Version: V.1.4.1



# Calibration Report

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## I/M Dashboard

### Calibration Report

Today  This Week  Last Week  This Month  Last Month  Select A Date Range

Calibration History (Hide Panel...)

Record ID	Calibration Date&Time	Calibration Type	User ID
170812	6/4/2010 3:10:14 PM	OBD	IN002328
170818	6/4/2010 3:08:12 PM	OBD	IN002328
170585	6/4/2010 6:40:34 AM	OBD	IN002329
170582	6/4/2010 6:40:23 AM	OBD	IN002329
170573	6/4/2010 6:37:05 AM	LEAK CHECK	IN002329
170562	6/4/2010 6:35:41 AM	LEAK CHECK	IN002329
169775	6/1/2010 6:34:24 AM	LEAK CHECK	IN002319
169786	6/1/2010 6:34:03 AM	GAS CAP TESTER	IN002319
169768	6/1/2010 6:33:56 AM	OBD	IN002319
169769	6/1/2010 6:33:19 AM	LEAK CHECK	IN002319
169766	6/1/2010 6:32:51 AM	OBD	IN002319

**Calibration Table**

Record ID	170819
CALIBRATION DATE	6/4/2010 3:10:14 PM
CALIBRATION TYPE	OBD
USER ID	IN002328
WORKSTATION_ID	AL0301
REP_VALUE	0
SPAN_GAS_BOT_EXP_DATE	6/4/2010 3:10:14 PM
SPAN_GAS_BOT_BLEND_CODE	
LEAK_CHECK_RESULT	
GAS_CAP_TESTER_SER_NUMBER	
GAS_CAP_CAL_RESULT	
OBD_CHECK_RESULT	PASS

Repair History Lookup:

License Plate
  Vin

License Plate	Repaired Date	Shop ID	Repair Cost	Repaired By	Repairs Done?	Updated By
IN002231	6/7/2010 8:49:04 AM		170	MOTORIST		IN002231
IN002224	5/1/2010 10:12:37 AM		600	MOTORIST		IN002224
IN002224	4/8/2010 12:44:29 PM		0	MOTORIST		IN002224
IN002224	10/29/2006 6:21:00 PM	RP00557	450	TECHNICIAN	Repairs Done? Yes	Updated By: IN002224



# Multipoint Audit Summary

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**MULTI POINT AUDIT SUMMARY I - DATES OLDER THAN 6 MONTHS.**

[Print Report](#)

Station	Lane1	Lane2	Lane3	Lane4	Lane5	Lane6
1 WAUKEGAN		9/10/2009 3:35:06 PM	9/10/2009 5:07:12 PM			
3 CRYSTAL LAKE			10/7/2009 2:52:15 PM			
2 S	11/6/2009 11:06:59 AM	11/6/2009 10:45:16 AM	11/6/2009 10:17:56 AM			
30 PONTOON BEACH	10/21/2009 9:11:18 AM					

**MULTI POINT AUDIT SUMMARY II - DATES OLDER THAN 5 MONTHS.**

[Print Report](#)

Station	Lane1	Lane2	Lane3	Lane4	Lane5	Lane6
1 WAUKEGAN		9/10/2009 3:35:06 PM	9/10/2009 5:07:12 PM			
3 CRYSTAL LAKE			10/7/2009 2:52:15 PM			
2 S	11/6/2009 11:06:59 AM	11/6/2009 10:45:16 AM	11/6/2009 10:17:56 AM			
30 PONTOON BEACH	10/21/2009 9:11:18 AM					

**MULTI POINT AUDIT SUMMARY III - DATES LESS THAN 5 MONTHS.**

[Print Report](#)

Station	Lane1	Lane2	Lane3	Lane4	Lane5	Lane6
1 WAUKEGAN		3/4/2010 2:45:24 PM	3/3/2010 3:05:10 PM			
3 CRYSTAL LAKE			4/1/2010 4:33:50 PM			
2 S	4/12/2010	4/12/2010	4/12/2010 8:59:59 AM	4/2/2010		
27 MARKHAM			5/4/2010 9:16:51 AM	5/4/2010 8:47:16 AM		
29 WOOD RIVER						
30 PONTOON BEACH						
53 SWANSEA						

# Extra Test Authorization Report

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## I/M Dashboard

### Extra Test Authorization Report

Today
  This Week
  Last Month
  This Month
  Last Month
  Select A Date Range

STATION ID	EXTRA-TEST AUTHORIZED BY	EXTRA-TEST AUTHORIZED DATE TIME	LICENSE PLATE	TEST DONE BY	TEST START DATE TIME
22	IN002302	1/19/2010 11:20:19 AM		IN002331	6/7/2010 9:21:41 AM
26	IN002215	6/8/2010 9:24:11 AM		IN002712	6/8/2010 9:29:07 AM
13	IN002191	6/2/2010 4:34:02 PM		IN002538	6/7/2010 5:26:36 PM
13	IN002191	6/8/2010 3:49:23 PM		IN002311	6/8/2010 4:02:40 PM
27		6/9/2010 10:11:12 AM		IN002695	6/9/2010 10:18:19 AM
13	IN002538	5/29/2010 10:43:07 AM		IN002632	6/10/2010 4:48:21 PM
27	IN002354	6/9/2010 11:43:44 PM		IN002619	6/9/2010 2:05:06 PM
4	IN002227	6/8/2010 3:05:06 PM		IN002308	6/8/2010 3:09:51 PM
22	IN002219	6/10/2010 11:54:07 AM		IN002697	6/10/2010 12:05:01 PM
13	IN002210	6/7/2010 12:35:46 PM		IN002275	6/7/2010 12:52:41 PM
26		6/9/2010 2:02:21 PM		IN002219	6/10/2010 11:26:00 AM
7	IN002182	6/9/2010 5:28:26 PM		IN002454	6/9/2010 5:34:42 PM
13	IN002302	4/29/2010 3:57:52 PM		IN002696	6/7/2010 4:25:49 PM
13	IN002302	6/9/2010 2:20:04 PM		IN002674	6/9/2010 2:23:51 PM

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No Failing Waiver Report

Today
  This Week
  Last Week and This Week
  This Month
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Print Test Summary

License Plate	Test Date & Time	Station	Test Counter
	6/14/2010 4:38:09 PM	13	4
	6/14/2010 3:45:01 PM	7	6
	6/14/2010 3:22:29 PM	26	4
	6/14/2010 3:20:17 PM	27	6
	6/14/2010 3:11:51 AM		
	6/14/2010 9:43:10 AM		
	6/14/2010 9:20:03 AM		
	6/14/2010 8:48:55 AM		

Test ID	Test Date & Time	Station	Test Type	Overall Result	Test Counter	User Id
204425343	6/14/2010 4:38:09 PM	FOREST PRESERVE	OBDDII TEST	PASS	4	IN002538
204425294	6/14/2010 4:36:42 PM	FOREST PRESERVE	WAIVER	FAIL	3	IN002191
204424339	6/14/2010 3:38:42 PM	SKOKIE	OBDDII TEST	REJECT	3	IN002310
113691831	3/17/2004 9:09:38 AM	SKOKIE	OBDDII TEST	FAIL	1	317059

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# Failure by Category Report

## Emissions Test Results

### Acronyms

DTC: Diagnostic Trouble Code      EGR: Exhaust Gas Recirculation  
 MIL: Malfunction Indicator Light    OBD: On-Board Diagnostics

### Select Component Category

Exhaust Gas Recirculation (EGR) System

Data collected between 05-01-2008 and 12-31-2009

### Results For Selected Category

DTC	Description	Percent of Failures*
P0401	Exhaust Gas Recirculation Flow Insufficient Detected	5%
P0400	Exhaust Gas Recirculation Flow Malfunction	1%
P0402	Exhaust Gas Recirculation Flow Excessive Detected	1%

\*With Malfunction Indicator Light (MIL or "check engine light") turned on.

### Detailed Results for Selected Component - P0401

Vehicle Description	% Failing OBD Due To This DTC
1996 FORD EXPLORER 4DR 6 cyl 4L Either	2.1%
1999 FORD TAURUS 6 cyl 3L Automatic	2.08%
1997 FORD TAURUS 8 cyl 3.4L Automatic	1.93%
1996 FORD TAURUS 6 cyl 3L Automatic	1.79%
1997 CHEVROLET LUMINA 6 cyl 3.1L Automatic	1.74%
1998 FORD TAURUS 6 cyl 3L Automatic	1.42%
1997 FORD EXPLORER 6 cyl 4L Either	1.4%
2007 FORD TAURUS 6 cyl 3L Automatic	1.3%
2005 MITSUBISHI LANCER EVOLUTION 4 cyl 2L Manual	.01%
2006 CHRYSLER 300 C 6 cyl 2.7L Automatic	.01%
2006 FORD FREESTYLE AWD 6 cyl 3L Automatic	.01%

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Select Component Category

- Exhaust Gas Recirculation (EGR) System
- Catalytic Converter
- Crankshaft/Camshaft Position Sensor
- Cruise Control System
- Electrical System/Electronic Control Module (ECM)
- Engine Coolant Temperature
- Exhaust Gas Recirculation System
- Exhaust Gas Recirculation (EGR) Valve
- Exhaust Temperature Sensor
- Exhaust Valve
- Exhaust Valve Position Sensor
- Exhaust Valve Timing Control System
- Ignition System
- Intake Air Temperature
- Knock Sensor
- Mass Air Flow (MAF)/Manifold Absolute Pressure (MAP) sensor
- Misc
- Misc
- Oxygen Sensor
- Secondary Air Injection System
- Throttle Position Sensor/Sensor
- Torque Converter
- Transmission
- Transmission Sensor/Solenoid
- Turbocharger



# Salt Lake County Vehicle Emissions Program Implementation

ID	Task Name	Duration	Start	Finish	Predecessors	AUG S
65	Tamper Switch(es)	3.75 days	Mon 9/27/10	Fri 10/1/10		64
66	Testing	7.5 days	Fri 10/1/10	Tue 10/12/10		65
67	UL	10 days	Wed 10/13/10	Tue 10/26/10		66
68	BOMs	10 days	Wed 10/27/10	Tue 11/9/10		67
69	<b>MANUALS, ETC.</b>	15 days	Wed 1/28/11	Tue 2/15/11		
70	Documentation (Manuals, etc)	5 days	Wed 1/28/11	Tue 2/1/11		61
71	Release	10 days	Wed 2/2/11	Tue 2/15/11		70
72	<b>VEHICLE INSPECTION DATA MANAGEMENT</b>	129 days	Wed 9/1/10	Mon 2/28/11		
73	<b>COUNTY VID OVERVIEW</b>	40 days	Wed 9/1/10	Tue 10/26/10		
74	Meet with County to Develop Overall County VID Management Plan	5 days	Wed 9/1/10	Tue 9/7/10		
75	Review County VID Management Plan	5 days	Wed 9/8/10	Tue 9/14/10		74
76	Finalize of County VID Requirements Document	20 days	Wed 9/15/10	Tue 10/12/10		75
77	Develop of County VID Design Document	5 days	Wed 10/13/10	Tue 10/19/10		76
78	Validate and Approve County VID Design Document	5 days	Wed 10/20/10	Tue 10/26/10		77
79	Development of Legacy VID Data Migration Plan	5 days	Wed 9/1/10	Tue 9/7/10		
80	Provide ATP Test Scripts for County VID Components	5 days	Wed 9/8/10	Tue 9/14/10		79
81	Revise Technical COUNTY VID Documentation Plan	5 days	Wed 9/15/10	Tue 9/21/10		80
82	<b>COUNTY VID ACCESS, HARDWARE AND ARCHITECTURE</b>	58 days	Wed 10/27/10	Fri 1/14/11		78
83	Purchase and Configure Router Hardware	14 days	Wed 10/27/10	Mon 11/15/10		
84	Purchase and Configure Security Hardware	12 days	Tue 11/16/10	Wed 12/1/10		83
85	Purchase Test and Full Data Lines	30 days	Thu 12/2/10	Wed 1/12/11		84
86	Test EBCP Failover	2 days	Thu 1/13/11	Fri 1/14/11		85
87	<b>COUNTY VID ENVIRONMENTS</b>	23 days	Wed 10/27/10	Fri 11/26/10		78
88	Review / Update System Specs	2 days	Wed 10/27/10	Thu 10/28/10		
89	Purchase and Setup Development Environment	12 days	Fri 10/29/10	Mon 11/15/10		88
90	Configure Servers per Checklist	3 days	Tue 11/16/10	Thu 11/18/10		89
91	Purchase and Setup Test Environment	12 days	Fri 10/29/10	Mon 11/15/10		88
92	Configure Servers per Best Practices Checklist	3 days	Tue 11/16/10	Thu 11/18/10		91
93	Run System Security Scans	2 days	Fri 11/19/10	Mon 11/22/10		92
94	Connect Test Environment to the County	2 days	Tue 11/23/10	Wed 11/24/10		93
95	Run System Security Scans	2 days	Thu 11/25/10	Fri 11/26/10		94
96	Purchase and Setup Production Environment (the County Office)	12 days	Fri 10/29/10	Mon 11/15/10		88
97	Configure Servers per Best Practices Checklist	3 days	Tue 11/16/10	Thu 11/18/10		96
98	Run System Security Scans	2 days	Fri 11/19/10	Mon 11/22/10		97
99	Install and Test Monitoring Server / Software	2 days	Fri 10/29/10	Mon 11/1/10		88
100	Connect Prod Environ to the County	2 days	Tue 11/23/10	Wed 11/24/10		98
101	Run System Security Scans and Penetration Test	2 days	Thu 11/25/10	Fri 11/26/10		100
102	<b>DATABASES</b>	98 days	Wed 9/1/10	Fri 1/14/11		
103	<b>ALL COUNTY VID DATABASES</b>	82 days	Wed 9/1/10	Thu 12/23/10		
104	Construct Data Dictionary	120 hrs	Wed 9/1/10	Tue 9/21/10		
105	Perform Data Migration	400 hrs	Wed 9/22/10	Tue 11/30/10		104
106	Install County System and VID Database	120 hrs	Fri 11/19/10	Thu 12/9/10		90
107	Construct County VID Data Table	480 hrs	Wed 9/22/10	Tue 12/14/10		104
108	Perform AANS Configuration	80 hrs	Fri 12/10/10	Thu 12/23/10		106
109	Perform County VID Indexing and Optimization	120 hrs	Wed 9/1/10	Tue 9/21/10		
110	Implement Station/Workstation Admin Module	24 hrs	Wed 9/1/10	Fri 9/3/10		
111	Set-up and Install Station Server	80 hrs	Wed 9/1/10	Tue 9/14/10		
112	Perform Data Replication	80 hrs	Wed 9/15/10	Tue 9/28/10		111
113	Implement WAM Module	80 hrs	Wed 9/29/10	Tue 10/12/10		112
114	Set-up Veritas and SAN	120 hrs	Wed 9/1/10	Tue 9/21/10		
115	Set-up and Install DRP	80 hrs	Wed 9/22/10	Tue 10/5/10		114
116	Perform Batch Transfer Utility	80 hrs	Wed 9/1/10	Tue 9/14/10		
117	<b>VID</b>	35 days	Wed 9/1/10	Tue 10/19/10		
118	Perform VID Modifications	120 hrs	Wed 9/1/10	Tue 9/21/10		
119	Perform VID Application Modifications	160 hrs	Wed 9/22/10	Tue 10/19/10		118
120	<b>DATABASE MAINTENANCE</b>	26 days	Fri 12/10/10	Fri 1/14/11		
121	Finalize Initial Database Maintenance Plan	5 days	Fri 12/10/10	Thu 12/16/10		106
122	Review Database Maintenance Plan with COUNTY	5 days	Fri 12/17/10	Thu 12/23/10		121
123	Implement Approved database Maintenance Plan	16 days	Fri 12/24/10	Fri 1/14/11		122
124	<b>DATA WAREHOUSE</b>	50 days	Wed 9/22/10	Tue 11/30/10		
125	Finalize Data Warehouse Configuration and Hardware Requirements	5 days	Wed 9/22/10	Tue 9/28/10		109
126	Purchase and Install Hardware	12 days	Wed 9/29/10	Thu 10/14/10		125
127	Configure Servers per Best Practices Checklist	3 days	Fri 10/15/10	Tue 10/19/10		126
128	Install Oracle 10g Database	3 days	Wed 10/20/10	Fri 10/22/10		127

# Salt Lake County Vehicle Emissions Program Implementation

ID	Task Name	Duration	Start	Finish	Predecessors	Aug S
129	Construct Data Warehouse Table	5 days	Mon 10/25/10	Fri 10/29/10		128
130	Import Data Warehouse Data	10 days	Mon 11/1/10	Fri 11/12/10		129
131	Set-up Data Warehouse Connection	10 days	Mon 11/15/10	Fri 11/26/10		130
132	Run System Security Scans	2 days	Mon 11/29/10	Tue 11/30/10		131
133	<b>COUNTY VID BUSINESS RULES</b>	30 days	Wed 9/1/10	Tue 10/12/10		
134	Build Business Rules	15 days	Wed 9/1/10	Tue 9/21/10		
135	Review and Approve Business Rules with State	15 days	Wed 9/22/10	Tue 10/12/10		134
136	<b>THE COUNTY DATA EXCHANGE PROTOCOLS</b>	85 days	Wed 9/22/10	Tue 11/16/11		
137	<b>WEB SERVICES</b>	85 days	Wed 9/22/10	Tue 11/16/11		
138	Set-up SSL Client and VPN	80 hrs	Wed 9/22/10	Tue 10/5/10		104
139	Perform DNS Configuration	24 hrs	Wed 9/22/10	Fri 9/24/10		104
140	Implement Communication Module	240 hrs	Wed 10/6/10	Tue 11/16/10		138
141	Implement Application Object Logger	40 hrs	Wed 11/2/11	Tue 11/16/11		142
142	<b>XML MESSAGING/TRANSACTIONS</b>	40 days	Wed 11/17/10	Tue 11/16/11		140
143	Work With State to Build DEXML Transactions	20 days	Wed 11/17/10	Tue 12/14/10		
144	Review and Approve DEXML Transactions with State	10 days	Wed 12/15/10	Tue 12/28/10		143
145	Finalize Documentation of DEXML Transactions	10 days	Wed 12/29/10	Tue 11/1/11		144
146	<b>REPORTING AND QUERYING</b>	129 days	Wed 9/1/10	Mon 2/28/11		
147	<b>DATA WAREHOUSE REPORTING AND QUERYING</b>	129 days	Wed 9/1/10	Mon 2/28/11		
148	Develop Business Rules Configuration Engine	120 hrs	Wed 9/29/10	Tue 10/19/10		169
149	Develop Trigger Reporting Suite	240 hrs	Wed 11/10/10	Tue 12/21/10		150
150	Develop Canned Reporting Suite	240 hrs	Wed 9/29/10	Tue 11/9/10		169
151	Develop Change Management Tool	80 hrs	Wed 9/29/10	Tue 10/12/10		169
152	Develop Compliance Reporting	40 hrs	Wed 12/22/10	Tue 12/28/10		149
153	Develop Duplicate VIR Module	40 hrs	Wed 12/22/10	Tue 12/28/10		149
154	Develop SPC Reporting Application	80 hrs	Wed 9/29/10	Tue 10/12/10		169
155	Develop CSR Module	240 hrs	Wed 9/29/10	Tue 11/9/10		169
156	Develop VIN Data Correction	120 hrs	Wed 11/10/10	Tue 11/30/10		150
157	Develop VLT Failure Lookup Module	80 hrs	Wed 12/1/10	Tue 12/14/10		156
158	Develop Throughput Reporting	40 hrs	Wed 12/15/10	Tue 12/21/10		157
159	Develop Equipment Auditing Module	80 hrs	Wed 9/1/10	Tue 9/14/10		
160	Develop Work Order Tracking and Inventory App	90 hrs	Wed 9/15/10	Thu 9/30/10		159
161	Perform Unit Testing	90 hrs	Wed 11/10/10	Thu 11/25/10		155
162	Perform Stress Testing	90 hrs	Thu 11/25/10	Fri 12/10/10		161
163	Perform Regression Testing	90 hrs	Fri 12/10/10	Mon 12/27/10		162
164	Deploy Data Warehouse Reporting Module	30 hrs	Mon 12/27/10	Fri 12/31/10		163
165	Finalize System level documentation	240 hrs	Wed 10/20/10	Tue 11/30/10		148
166	Develop Training Module	140 hrs	Wed 12/22/10	Fri 11/4/11		149
167	Finalize Ad Hoc Queries and Reports	10 days	Fri 12/31/10	Fri 11/4/11		164
168	Finalize Fraud Detection Reports / Tools	98 days	Thu 10/14/10	Mon 2/26/11		
169	<b>DASHBOARDS</b>	5 days	Wed 9/22/10	Tue 9/28/10		
170	Perform Dashboard Integration Review	5 days	Wed 9/22/10	Tue 9/28/10		109
171	<b>COUNTY VID SECURITY</b>	114 days	Wed 9/22/10	Mon 2/28/11		
172	<b>SYSTEM SECURITY</b>	15 days	Wed 9/22/10	Tue 10/12/10		81
173	Review Password and Security Standards with the County	10 days	Wed 9/22/10	Tue 10/5/10		
174	Document and Develop System Security Manual	5 days	Wed 10/6/10	Tue 10/12/10		173
175	<b>SOFTWARE AND APPLICATION SECURITY</b>	2 days	Thu 10/28/10	Fri 10/29/10		81
176	Review Role Based Authentication and Create User and Group Lists	2 days	Thu 10/28/10	Fri 10/29/10		81
177	<b>DATABASE SECURITY</b>	2 days	Thu 10/28/10	Fri 10/29/10		81
178	Review Database Security Accounts	2 days	Thu 10/28/10	Fri 10/29/10		81
179	Data Transmission Security	2 days	Thu 10/28/10	Fri 10/29/10		81
180	Review the County IDE Security Measures	2 days	Thu 10/28/10	Fri 10/29/10		81
181	<b>INSPECTION EQUIPMENT AND SOFTWARE SECURITY</b>	98 days	Thu 10/14/10	Mon 2/28/11		
182	Review Inspection Equipment and Software Security	98 days	Thu 10/14/10	Mon 2/28/11		
183	<b>SERVER SECURITY</b>	2 days	Thu 2/24/11	Fri 2/25/11		81
184	Review Server Security and DoS/DDoS Checklists	2 days	Thu 2/24/11	Fri 2/25/11		81
185	<b>PERFORMANCE METRICS</b>	2 days	Wed 9/22/10	Thu 9/23/10		81
186	Review and Document Metrics and How They Will Be Tracked	2 days	Wed 9/22/10	Thu 9/23/10		81
187	<b>BACKUP, BUSINESS CONTINUITY, AND DISASTER RECOVERY</b>	32 days	Wed 9/22/10	Thu 11/4/10		81
188	Meet to Initially Discuss Backup BCP and DRP	5 days	Wed 9/22/10	Tue 9/28/10		
189	Finalize Backup and Recovery Plan	25 days	Wed 9/29/10	Tue 11/2/10		188
190	Review Plans with the County	2 days	Wed 11/3/10	Thu 11/4/10		189
191	<b>TRANSITION PERIOD AND LEGACY DATA MIGRATION</b>	16 days	Mon 2/7/11	Mon 2/28/11		
192	<b>LEGACY DATA MIGRATION</b>	16 days	Mon 2/7/11	Mon 2/28/11		

## Salt Lake County Vehicle Emissions Program Implementation

ID	Task Name	Duration	Start	Finish	Predecessors	Aug S
193	Migrate Legacy VID Data Including VRT	11 days	Mon 2/7/11	Mon 2/21/11		
194	Implement Real-time Data Exchange Between Legacy VID / COUNT	5 days	Tue 2/22/11	Mon 2/28/11		193
195	<b>COUNTY VID TECHNICAL DOCUMENTATION</b>	21 days	Mon 1/3/11	Mon 1/31/11		
196	Finalize COUNTY VID Component Technical Documentation	21 days	Mon 1/3/11	Mon 1/31/11		
197	Finalize System Application Manual	21 days	Mon 1/3/11	Mon 1/31/11		
198	Finalize Data Warehouse Systems Operations Manual	21 days	Mon 1/3/11	Mon 1/31/11		
199	<b>COUNTY VID TESTING</b>	41 days	Mon 1/3/11	Mon 2/28/11		
200	Conduct Initial Meeting for Overall Test Plan / ATP Scripts and Procedure	1 day	Mon 1/3/11	Mon 1/3/11		
201	Conduct Unit Testing of Code Modules	5 days	Tue 1/4/11	Mon 1/10/11		200
202	Conduct Integration Compatibility and Interaction Testing	7 days	Tue 1/11/11	Wed 1/19/11		201
203	Conduct System Testing and Validation	7 days	Thu 1/20/11	Fri 1/28/11		202
204	Run Stress Testing / Simulation	10 days	Mon 1/31/11	Fri 2/11/11		203
205	Conduct ATP	11 days	Mon 2/14/11	Mon 2/28/11		204
206	<b>SYSTEM ACCEPTANCE TEST</b>	20 days	Tue 2/1/11	Mon 2/28/11		
207	Perform Data Handling System Acceptance	20 days	Tue 2/1/11	Mon 2/28/11		
208	Perform Inspection Facility Acceptance	20 days	Tue 2/1/11	Mon 2/28/11		
209	Perform Contractor-Supplied Acceptance Test	20 days	Tue 2/1/11	Mon 2/28/11		

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## **Appendix D: Preventative Maintenance Schedules and Information**

### **Regularly Scheduled Workstation Quality Assurance Functions**

Workstation QA parameters are configurable from the Applus+ e-VID™. All QA procedures, including audit procedures in the workstation menus have configurable acceptance limits as described below. The following are sample preventative maintenance and repair guidelines for equipment solutions similar to Applus+' proposed offering to the SLVHD:

#### **Sample System Leak Check**

Leaks in the raw sample system can affect the accuracy of measured emissions levels. To ensure that leaks are properly detected, and detected early, required leak checks are automatically performed by the Applus+ e-VID™ with a default frequency every 24 hours. The workstation is not able to perform vehicle tests until it passes the regularly scheduled leak check.

#### **Gas Analyzer Calibrations**

Gas analyzers are calibrated on a regular basis per EPA specifications. The workstation automatically notifies the Inspector that calibration is required and does not allow further vehicle testing until the procedure is successfully completed.

The default frequency for gas calibrations is within a 24 hour time period. This interval may be increased, with the permission of the SLVHD, depending on the outcome of calibration data analysis from the field. If the total analyzer draft is well within specifications for most inspection stations over 24 hours, calibration frequency may be decreased accordingly.

Workstation gas analyzers receive a two-point gas calibration with a high-gas blend, followed by verification with a low-gas blend. Specifications for these gases originate from the federal register.

#### **OBDII Device**

Applus+' system is strategically designed to inform the Inspector when a problem occurs. The following types of problems are self-detected by Applus+' OBDII testing system:

- ⊕ No power to OBDII module;
- ⊕ No communications to OBDII electronics;
- ⊕ No communication with the vehicle's OBDII system; and
- ⊕ Corrupt data stream.

Per EPA guidance, Applus+ provides an efficient method for verifying the test system prior to failing vehicles for "no communication" codes. This process involves using the OBDII scan interface hardware assembly connected to an OBDII Testing device on the workstation. (optional equipment.) The OBDII interface is verified automatically.

Most testing providers perform a simple "loop-back check" of the OBDII system that only audits the power and ground terminals of the data link connector. This means that an OBDII device can pass the loop-back check with faulty data terminals, resulting in a false

belief that hardware is operating properly. **Applus+ finds this method unacceptable.**  
► Using the Multiplex Engineering OBDII Testing device, Applus+ has developed a process where each terminal on the OBDII device is tested for continuity, and that each OBDII protocol receives proper communication. This ensures the OBDII system is completely functional before each use.

#### Continuous Hardware QA

Workstations contain extensive quality assurance background monitors that screen equipment during operation. Test restarts or aborts occur if the workstation detects equipment problems during a test. The following summarizes selected continuous quality assurance monitors.

- + **Low Sample Flow.** Workstations immediately notify the Inspector if a low flow condition exists in the sample system when the sample pump is operating. This is typically an indicator that filters are excessively dirty and need to be changed.
- + **Dilution Factor.** Vehicles with pumps that add ambient air to exhaust, or vehicles that have exhaust system leaks can cause significant inaccuracies in gas concentration measurements. Applus+ workstation software detects and compensates for dilution by adjusting concentrations based on an expected carbon dioxide and carbon monoxide balance. If leaks in the probe or other user errors create dilution levels beyond pre-set limits, the test is invalidated and a retest and appropriate repairs are required.
- + **Equipment Maintenance Procedures.** Provides detailed steps in evaluating the performance of workstation hardware in accordance with EPA specifications. All maintenance is performed per Applus+ written procedure manuals.

#### Probes and Hoses

If leak or flow restrictions are evident or suspected, they will be verified during service calls. An Applus+ Technician will:

- + Check the probe's flex section or solid section for visible damage. The probe is considered damaged if it is pinched, resulting in a restricted or leaking flow;
- + Check if the hose is damaged. The hose is considered damaged if it is kinked or melted so that flow is restricted or leaking; or if the quick-connect fitting for the auxiliary hose is damaged or leaking;
- + Check if the hose has been modified in a way that could affect the accuracy of the readings. Accuracy can be affected by altering the length or effective diameter of the hose, or by adding components such as an in-line filter that adds volume or could cause HC hang-up. Splicing a hose or other minor repairs are acceptable, as long as the overall hose length is not altered, the splicing is performed in a permanent manner with appropriate fittings and clamps, and a leak check is performed and passed; and
- + Check if the probe is disconnected from the main hose or from the workstation cabinet.
- ⊕ If any of the above conditions exist, they must be corrected or the workstation will be locked out until repairs are made.
- + Check if the hose has the proper length. The sample hose should be no less than 20 feet long and no more than 27 feet long.
- ⊕ If the hose length is outside these limits, then the problem must be corrected. If the hose length is greater than 35 feet, or less than 15 feet, the workstation must be locked out until the problem is corrected.

#### Sample Filters and Inline Filters

An Applus+ Technician will:

- ⊕ Check if any filter elements are modified, damaged, or missing from the sample filters housings or the inline filters;
- ⊕ Check if the filter bowls are cracked or modified in any way;
- ⊕ Check if filter elements are excessively dirty; and
- ⊕ Check if there is more than 1 inch of water accumulated in the bottom of the filter bowls.

If any of these conditions exist but the workstation passes a leak check, the Technician will note the condition and proceed. If the workstation fails the initial gas audit, the Technician needs to correct the condition before performing the calibration.

#### Calibration Gas Cylinders

An Applus+ Technician will:

- ⊕ Check calibration gas cylinders for proper gas values; and
- ⊕ Ensure each workstation has the correct calibration gas values entered in the calibration record.

#### OBDII System

An Applus+ Technician will:

- ⊕ Check housing and communication cable for damage or excessive wear; and
- ⊕ Check the missing or bent power and data terminal pins.

#### Workstation Performance

##### Leak Check

An Applus+ Technician will:

- ⊕ Proceed to the appropriate menu on the workstation and initiate a leak check;
- ⊕ Do not place the cap on the probe for the initial leak check. The leak check should fail;
- + if the leak check passes without the probe cap, this is a failure and the workstation must be locked out until repairs are made.
- ⊕ Initiate another leak check, place the cap over the probe tip when prompted;
- + If the leak check passes, continue with the maintenance check;
- + If the leak check fails, note this on the log sheet and try to find the cause of the failure. Likely causes are cracked filter bowls, cross-threaded filter bowls, leaking probe tips, or leaking sample line.
- ⊕ If the leak check will not pass and repairs cannot be made. The workstation must be locked out until repairs are made.

#### Gas Audit

The gas audit is performed from the audit menu on the workstation.

Equipment Required:

- ⓐ Three cylinders of audit gas blends (or gas divider): Low range, mid range, and high range, i.e. 20, 40, and 60 percent of full scale. Gases to be traceable to NIST standards within +/- 1%; and
- ⓑ Zero air.

If gas cylinders are used:

- ⓐ Dual stage gas cylinder pressure regulators (preferably 3) with the following specifications:
  - + Rated to 2400 psig;
  - + Outlet regulator configured with needle valve with stainless steel nipple. Outlet of needle valve will have stainless steel barbed fitting suitable for use with 3/8" ID polyurethane tubing;
  - + Inlet pressure gauge range: 0 – 4,000 psig;
  - + Outlet pressure gauge range: 0 – 60 psig;
  - + Balloon, tee, and tubing to connect to sample probe from workstation;

	Clean	Good Working Order	
Keyboard	<input type="checkbox"/>	<input type="checkbox"/>	Facility: _____
Touchscreen	<input type="checkbox"/>	<input type="checkbox"/>	Date: _____
Calibrate		<input type="checkbox"/>	
Iris Scanner	<input type="checkbox"/>	<input type="checkbox"/>	Tech: _____
Printer	<input type="checkbox"/>	<input type="checkbox"/>	
Rollers/LED bar	<input type="checkbox"/>	<input type="checkbox"/>	
Reset Drum Count		<input type="checkbox"/>	
Check Toner Life		<input type="checkbox"/>	
Fail VIR		<input type="checkbox"/>	
Pass VIR		<input type="checkbox"/>	
DLC	<input type="checkbox"/>	<input type="checkbox"/>	
Barcode Scanner	<input type="checkbox"/>	<input type="checkbox"/>	
Network connection		<input type="checkbox"/>	
Internet connection		<input type="checkbox"/>	
Exterior	<input type="checkbox"/>	<input type="checkbox"/>	
Interior	<input type="checkbox"/>	<input type="checkbox"/>	
Spare Toner		<input type="checkbox"/>	
Spare Paper		<input type="checkbox"/>	

Camera	Verified
Visible from Dashboard	<input type="checkbox"/>
Properly Aimed	<input type="checkbox"/>
Properly Focused	<input type="checkbox"/>
Time Displayed	<input type="checkbox"/>
Time in Sync w/PC	<input type="checkbox"/>

## Monthly Equipment PM Check List

Station: \_\_\_\_\_

Technician: \_\_\_\_\_

Date: \_\_\_\_\_

Gas Log Scotty Bottles; Log high pressure Reading. Insure flow pressure regulator is set to 12PSI.

Lane:	1	2	3	4	Spares
LOW	PSI	PSI	PSI	PSI	
MID	PSI	PSI	PSI	PSI	

- ▶ Clean gas analyzer sample primary filter screen mild soap and water rinse and dry.
- ▶ Clean primary filter bowl. Inspect secondary particulate filter, replace as needed.
- ▶ Clean probe quick connects with NON-HC cleaner.
- ▶ Inspect gas analyzer sample probes and hoses for wear and damage.
- ▶ Clean gas analyzer air filter element.
- ▶ Clean OBDII unit air filter elements.
- ▶ Clean OBDII connector and inspect for wear, damage or bent pins.
- ▶ Inspect RPM secondary inductive pick-up for damage, insure U-core/I-core is intact.
- ▶ Inspect RPM battery leads for damage, wear.
- ▶ Inspect gas cap tester/adaptor seals and fittings for damage.
- ▶ Inspect BAR-CODE scanner for damage, function test.
- ▶ Inspect/clean printer, function test, reset drum count, check toner life
- ▶ Clean upper and lower rollers, LED bar on printer
- ▶ Inspect/clean keyboard
- ▶ Clean touchscreen and extended monitor with damp cloth
- ▶ Perform daily start up tests.

Lane:	1	2	3	4
Complete:				

- ▶ Clean HP M2727
- ▶ Clean closet PCs, routers, etc.
- ▶ Clean CSR PC and periperals
- ▶ Clean Training PC and periperals

Station Complete:

Notes:

## Facility Preventive Maintenance

Date:

Station:

Tech:

Office Area		
Items	Maintenance to be performed	Checked
<b>Doors</b>	Proper operation	
	Lubricate all Hinges	
	Check and adjust all door closers	
<b>Lighting</b>	All bulbs lit and working properly	
	Check all emergency bulbs and battery operation	
	All exit signs lit and work with battery	
<b>Thermostat</b>	Cover in place	
	Settings correct	
	Heat/Air working correctly	
<b>Roof Top Unit</b>	Proper operation	
	Change out and date filters	
	Check belt and ensure proper tension	
	Clean out coils	
<b>Restrooms &amp; Janitors Closet</b>	Clean out condensate drain	
	Faucets working correctly, hot and cold sides	
	No leaks	
	Draining correctly	
	Toilet float and flapper valve	
	Partitions and lockers in good working order	
	Ensure building has adequate hot water	
<b>Electrical Room</b>	Check slop sink faucets and drain	
	No leaks around water heater	
<b>Waiver Bay</b>	Make sure all electrical panels are closed	
	Make sure lighting timers are set to automatic	
<b>Lobby Area</b>	Heater operational	
	Exhaust fan working properly	
	All lights working properly	
	Overhead door operation, rollers and slide lock	
	Check trouble light for proper operation (if applicable)	
<b>Safety</b>	Lubricate springs, rollers, track, and slide lock	
	Customer counter in good shape	
	Both water fountains working correctly	
<b>General</b>	Brochure and poster holders in place and secure	
	Fire extinguishers in place and fully charged	
	First Aid kit mounted in break room	
	Fire & Burglar alarm working correctly	
<b>General</b>	Eyewash in place and operational	
	Walls are clean with no smudges or markings	
<b>General</b>	Walls have no holes and trim is attached	

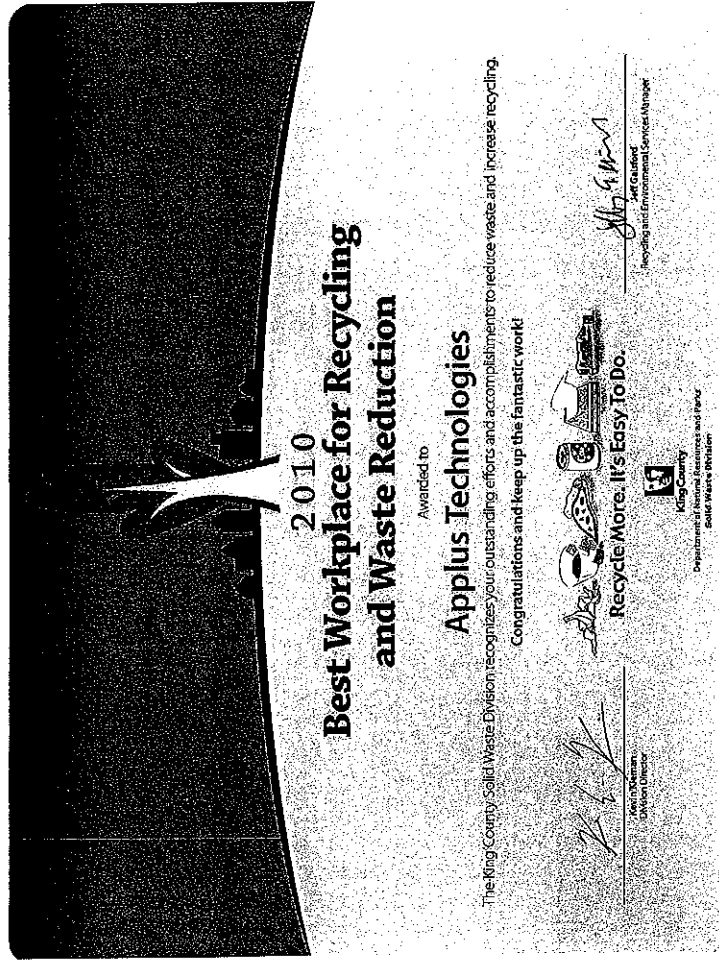






**Appendix E: Workplace Recycling Certificate**

Applus+ received the certificate below in honor of, for a second year in a row, being recognized as the "Best Workplace for Recycling and Waste Reduction" based on green initiatives taken within our corporate workplace as well as in our state/government I/M programs.



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## Appendix F: BAR97 Letter & Component Approval Certification

The following letter and certificate serve as documentation verifying Applus+' proposed SLC I/M equipment, components, and applicable technology are approved by and are in compliance with BAR-97 accuracy standards.



December 21, 2009

Joe Bisby  
LumaSense Technologies  
3033 Scott Blvd.  
Santa Clara, CA 95054

Dear Mr. Bisby:  
Congratulations! The LumaSense/Andros Model 6500 3-gas analyzer bench is granted a BAR-97 Component Approval based on tests conducted in compliance with the BAR-97 Revised Emissions Inspection System Specifications.

Continued component approval requires adherence to the enclosed certificate's listed conditions. Your Certificate of Approval is valid for one year from the date of approval. Please do not depend on BAR to notify you of your renewal date. It is your responsibility to renew your approval annually.

Sincerely,

JOSEPH PEDROSA  
Senior Air Quality Engineer

cc: Chron Files

Attachment

STATE OF CALIFORNIA  
BUREAU OF AUTOMOTIVE REPAIR

**COMPONENT APPROVAL**  
**3-Gas NDIR Analyzer Bench**

LumaSense Technologies is hereby granted a *BAR-97 Component Approval* for their Andros Model 6500, Rev. D Non-Dispersive Infrared (NDIR) 3-gas analyzer, based on tests conducted in compliance with the provisions of Health and Safety Code Section 44036, particularly Section 5 of the *BAR-97 Revised Emissions Inspection System Specifications*, and upon documentation and representations made by LumaSense. *Component Approval* means that the component has met the performance requirements allowing it to be considered for use in a BAR-97 EIS system. This approval is subject to the following conditions.

1. DESCRIPTION: LumaSense/Andros 3-gas NDIR analyzer, Model 6500, Rev. D, Andros Part ID 451954-000, meeting requirements of the BAR-97 Revised Emissions Inspection System specifications for measuring hydrocarbons (HC), carbon monoxide (CO), and carbon dioxide (CO<sub>2</sub>).

**CONDITIONS OF APPROVAL:**

- If any problems or discrepancies are discovered subsequent to the issuance of this approval, LumaSense Technologies shall correct or resolve the problems to the satisfaction of the Bureau and in a timeframe acceptable to the Bureau. If modifications are made after this approval, LumaSense must submit the changes along with appropriate test data to the Bureau prior to the release/sale of the updated equipment;
- Approval shall expire one year from the date of issuance, unless otherwise stated;
- Approval expires if the company is sold or changes ownership;
- Approval only applies to equipment meeting current specifications;
- Approval only applies to the original configuration (hardware or software).

Failure to comply with the conditions listed above may result in the suspension of future sales for a period of 30 days or more. Serious uncorrected problems could result in disapproval.

APPROVAL DATE: DECEMBER 21, 2009

EXPIRATION DATE: DECEMBER 20, 2010

  
JOSEPH PEDROSA  
Senior Air Quality Engineer

  
ROBERT BENJAMINSON  
Air Quality Engineer II

  
WAYNE FREENE  
Air Quality Engineer I

### **Appendix G: Sample Service Contract**

Applus+ is including a sample Service Contract to be modified, reviewed, and approved by the SLVHD, if necessary. These Service Contracts will be provided to each SLC network I/M station as an acknowledgement and agreement to Applus+ UTAH2011 implementation and operation concerning new program details, policies and procedures, contractual participation obligations, hardware and software information, warranty and service information, customer service, etc. The sample contract for SLVHD review is on the following page.

**Salt Lake County  
Vehicle Emissions I/M Program**

**Salt Lake County Station Service Contract**

This service Agreement (hereafter "Agreement") is between Applus+ Technologies, Inc., 444 North Michigan Ave., Suite 1110; Chicago, IL 60611 (hereafter "Applus+") and \_\_\_\_\_ (hereafter "Station"). Station confirms to be a licensee I/M Station in Salt Lake County. The Agreement shall have the Effective Date as defined under Section 10 and shall continue for an initial term until [INSERT DATE], except as otherwise provided herein. Thereafter, this Agreement may be extended by twelve (12) month intervals equivalent to any possible extensions of the Services Contract between Salt Lake County for its Salt Lake Valley Health Department and Applus+ for the I/M program in Salt Lake County, dated [INSERT DATE].

- 1. Pricing:** The cost for warranty services on the UTAH2011 Analyzer ("Equipment") is covered by the Station's fees for Test Authorizations as specified in Attachment A. Failure to make payment for Test Authorizations within terms may result in suspension of services under this Agreement.
- 2. Services:** Applus+ will provide warranty services for the covered Equipment within the time period as per the terms of this Agreement. Service will be provided as follows:
  - Unlimited Help Desk Support: Monday through Friday, from 8 a.m. until 5 p.m. Help desk is available for direct support. 24 Hour Telephone Hot Line is [INSERT NUMBER].
  - On-site service visits during business hours (Monday through Friday, from 8 a.m. until 5 p.m.).
- 3. Termination:** Termination may occur only if Station permanently chooses to discontinue participation in the Salt Lake County I/M Program by giving thirty (30) days prior notice. This Agreement becomes null and void should the emissions inspection program in Salt Lake County be suspended indefinitely or terminated.
- 4. Parts Replacement and On-Site Service:** Upon receiving a service call the Applus+ help desk will determine the nature of the problem and, at its own discretion, choose the adequate support, which is one of the following: (i) phone support; (ii) send replacement part, or (iii) on-site visit by Applus+ Field Service Representative. Phone support, on-site visit or replacement parts will be delivered within an average of 4 business hours or less after receiving the help desk call. This Agreement does NOT cover the free supply of consumables, nor does it cover damage due to customer abuse. Excluded from the parts warranty are the following components:

NOx Sensor	In-Line Filters	Non-Contact Tachometer Pick-up
Cabinet Air Filter	Keyboard Cover	Non-Contact Extension Cable
O2 Sensor	External Cables	Plain Printer Paper
Calibration Gas	Inductive RPM Pick-up	Printer Cartridge
Zero Air	Phone Modem Cord	Printer Toner
Bowl Filters	Sample Hose and Probe	Printer Drum

- 5. Applus+ Limitation of Service Requirement:** Applus+ will be obligated to provide warranty service by either help desk support or, if deemed necessary at Applus+ sole discretion, by on-site service call during regular business hours. Applus+ service obligation shall be limited to providing services as listed under Section 2 above. Applus+ explicitly is not obligated to bring the Equipment in good working order within any particular time period. Applus+ will have no obligation to provide services under this Agreement if the request for service arises as a result of:

SLC I/M Program

[Type text] [Type text]

**Salt Lake County  
Vehicle Emissions I/M Program**

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- Deterioration due to adverse environmental conditions during use or storage of Equipment;
- Any system malfunctions due to capacity or inadequate quality of power source;
- Fault or neglect of the Equipment user, Station owner, employees or representative(s) (i.e. customer abuse);
- Any unauthorized repair, modification, or tamper to the Equipment;
- Any internet or networking use of the Equipment;
- Any non-compliance with all obligations of this Agreement;
- Any accident or catastrophic event;
- Any use of special attachments to the Equipment not provided by Applus+;
- Improper use or misuse of the analyzer;

Services that are deemed necessary as a result of the items listed above shall be billed at the reasonable parts and labor rate. The labor rate will be \$75 per hour. Parts prices shall be based on Applus+' most recent Equipment spares price list.

**6. Unauthorized Software/Hardware:** Any software or hardware installed or connected with the Equipment that is not authorized in writing by Applus+, is installed at the Station's own risk and may void the Equipment warranty. The cost to repair or replace parts that are needed to restore the Equipment in good working order due to such unauthorized installations is the responsibility of Station.

**7. Station Responsibilities:** Station shall:

- (a) Permit Applus+' service personnel to have full and free access to the Equipment in order to provide the services described in this Agreement;
- (b) Provide adequate working space and all heat, light, ventilation, electric current and other facilities reasonably required by Applus+' service personnel to meet its obligations hereunder;
- (c) Provide electrical power, which is free from electrical noise and sufficient to meet the requirements of the Equipment;
- (d) Promptly notify Applus+ in writing of any change in the location of the Equipment covered in this Agreement.

**8. Warranty and Limitations:** Applus+ warrants that all services provided by Applus+ will be performed in a good workmanlike manner. Applus+' liability and Station's remedy under this warranty are limited to Applus+ needing to correct such services as are presented to Applus+' reasonable satisfaction as having been defective as a result of Applus+ provided services, provided that Station provides written notice of such defective services to Applus+ within 30 days after the performance of such services by Applus+.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND GIVEN EXPRESSLY IN LIEU OF (i) ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND (ii) ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY IN CONTRACT OR TORT WHETHER OR NOT ARISING FROM APPLUS+' NEGLIGENCE, ACTUAL OR IMPLIED. THE REMEDIES OF THE STATION SHALL BE LIMITED TO THOSE PROVIDED HEREIN TO THE EXCLUSION OF ANY AND ALL OTHER REMEDIES INCLUDING, WITHOUT LIMITATION, INCIDENTAL OR CONSEQUENTIAL DAMAGE. UNDER NO CIRCUMSTANCES SHALL APPLUS+ BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES.

**9. Limitation of Liability:** The liability of Applus+ hereunder shall be limited to restoring the Equipment to good working order provided that Applus+ shall not be liable for failure to restore the Equipment to good working order when such failure is due to causes beyond its reasonable control, including, but not limited to acts of God, strikes, floods, riots, delays in transportation and inability due to causes beyond

SLC I/M Program

[Type text] [Type text]

**Salt Lake County  
Vehicle Emissions I/M Program**

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its reasonable control to obtain necessary labor or materials or spare parts. The price allocated in this Agreement for any parts or service alleged to be the cause of any loss or damage to Station, shall be the maximum limit of Applus+ liability, whether founded in contract or tort (including negligence) arising out of, or resulting from (i) this Agreement, or the performance, or breach thereof, (ii) the design, manufacture, delivery, sales, repair, replacement, or (iii) the use of any Equipment for the furnishing of such service. In no event, shall Applus+ have any liability for any incidental or consequential damages.

**10. General:** No modification of this Agreement shall be binding unless it is in writing and signed by both parties. This Agreement is a complete and exclusive statement of all terms and conditions of the parties concerning the Equipment maintenance to be furnished by Applus+ to the Station and it supersedes and replaces any previous Agreement concerning Equipment maintenance between Applus+ and the Station. This Agreement is not transferable or assignable by Station under any circumstances.

Effective Date: \_\_\_\_\_

Station Name: \_\_\_\_\_ Station Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_ Analyzer Model: UTAH2011

Signature: \_\_\_\_\_ Contact: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Address: \_\_\_\_\_ Email: \_\_\_\_\_

Applus+ Technologies, Inc.

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Attachment A**

**Draft Payment Schedule**

1. Minimum Monthly Payment: [INSERT FEE]

Station must make the minimum monthly payment as determined by Salt Lake Valley Health Department and Applus+. The minimum monthly payment will allow the Station to perform its first [INSERT NUMBER] tests for that monthly billing cycle. The test authorizations for the minimum of [INSERT NUMBER] monthly tests expire at the end of the last day of the monthly billing cycle regardless of whether those authorizations are used. Payments for minimum monthly payments and test authorizations shall be accepted in the form of check, cash or credit card. Applus+ will process payments upon receipt. Applus+ will make every effort to process payments immediately to avoid Station downtime.

2. Per-Test Fee: [INSERT FEE]

In addition to the minimum monthly test authorizations, Station may purchase additional test authorizations in increments of [INSERT NUMBER]. Additional authorizations will have no expiration date. Station must purchase test authorizations in advance of testing and shall pay the above per test fee per each authorization exceeding the minimum first [INSERT NUMBER] tests per each month.

SLC I/M Program

[Type text] [Type text]

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**Appendix H: Applus+ Reporting Suite for EPA 40CFR 51.366 Requirements**

Applus+ offers the SLVHD full EPA reporting capabilities, as demonstrated in sample Connecticut I/M program EPA reports. The reports, accessible by authorized SLVHD personnel via the Dashboard, are located on the following page for review.

*Data from Connecticut 2006 Annual Report*

*Quality assurance report.* The program shall submit to EPA by July of each year a report providing basic statistics on the quality assurance program for January through December of the previous year.

## I/M Dashboard

Welcome

Add a Web Part to this zone by dropping it here.

[Add Content](#)

Add a Web Part to this zone by dropping it here.

I/M Dashboard			
	Beginning of Year	Left Program	Added to Program
No. of inspection stations/lans operating throughout 2008	276	11	6
Receiving overt performance audits in 2008	262		
Not Receiving overt performance audits in 2008	0		
That have been shut down as a result of overt performance audits	2		

I/M Dashboard				
	All Test Types	OBD Tests	ASHI Tests	
No. of inspection stations/lans operating throughout 2008	262	247	135	
Receiving Covert Audits	0			
Not Receiving Covert Audits				
Number of Covert Audits	1026	831	194	
Conducted with vehicle set to fail	832	766	176	
Conducted with vehicle set to fail any combination of two or more types	N/A	N/A	N/A	
Resulting in a False Pass	209	209	0	
Resulting in a False Pass for any combination of two or more test types	N/A	N/A	N/A	
Total number of Covert vehicles available for undercover audits in 2008	8	6	3	
Total number of Covert auditors available for undercover audits in 2008	16	16	16	



# I/M Dashboard

Welcome **PHOENIX ATAN**

Welcome

Add Content

STATION QUALITY ASSURANCE		
Stations	Inspectors	
Suspended as a result of covert audits	4	29
Suspended for other reasons	3	181
TESTING QUALITY ASSURANCE		
Certified Testing Inspectors as of 12/31/08		894

Station #	Station Name	License Number	Initial test date
0003	Wheeler Dodge	1	1
0014	Casey Jones MA	1	3
0015	Wheeler Dodge	1	1
0017	Wheeler Dodge	1	2
0019	Casey Jones MA	1	2
0020	Casey Jones MA	1	CLOSED
0023	Robert Chevrolet Dodge	1	3
0034	Robert Chevrolet Dodge	1	1
0036	Wheeler Dodge	1	2
0038	Wheeler Dodge	1	2
0040	Wheeler Dodge	1	3
0045	Wheeler Dodge	1	3
0107	Wheeler Dodge	1	2
0109	Wheeler Dodge	1	2
0110	Wheeler Dodge	1	2
0112	Wheeler Dodge	1	1
0113	Wheeler Dodge	1	CLOSED
0114	Wheeler Dodge	1	2
0115	Wheeler Dodge	1	2
0116	Wheeler Dodge	1	1
0117	Wheeler Dodge	1	2
0118	Wheeler Dodge	1	2
0119	Wheeler Dodge	1	2
0120	Wheeler Dodge	1	2
0121	Wheeler Dodge	1	2
0122	Wheeler Dodge	1	2
0123	Wheeler Dodge	1	2
0124	Wheeler Dodge	1	2
0125	Wheeler Dodge	1	2
0126	Wheeler Dodge	1	2
0127	Wheeler Dodge	1	2
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0194	Wheeler Dodge	1	2
0195	Wheeler Dodge	1	2
0196	Wheeler Dodge	1	2
0197	Wheeler Dodge	1	2
0198	Wheeler Dodge	1	2
0199	Wheeler Dodge	1	2
0200	Wheeler Dodge	1	2

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**Appendix I: Exhibit 1**

**Subcontractor Form**

Applus+ is a full-service I/M provider – we provide our own, custom-engineered OBD, TSI, and Diesel testing equipment technology. Applus+ also custom created and developed an enhanced vehicle inspection database as well as a modular Reporting Dashboard currently in use in many of its nationwide I/M programs. Additionally, Applus+ is very proud of its ISO-certified Quality Management System that augments every facet of our design and development processes as well as our project management services. Therefore, due to our comprehensive I/M offering Applus+ will not be utilizing subcontractors to fulfill the requirements of this RFP.

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**Appendix I: Exhibit 3**

**EXHIBIT 3**

**EXTENDED WARRANTY/SERVICE AGREEMENT COVERAGE  
AND CONSUMABLES**

1. 3 Year equipment extended warranty coverage description (same warranty coverage shall apply if Contract is extended to years 4, 5 and 6):  
All non-consumable UTAH2011 equipment that Applus+ supplies network I/M stations will be fully covered by a 3 year warranty. The warranty covers repairs and maintenance (preventative and general preservation) for continuous operation to all UTAH2011 equipment components not considered a consumable. This coverage will extend to years 4, 5 and 6, if applicable.

2. 3 Year service agreement coverage description (same service agreement coverage shall apply if Contract is extended to years 4,5 and 6)  
Service to I/M stations is included in Applus+ 3 year warranty. Applus+' guaranteed 3 year warranty on all non-consumable equipment includes service repairs and maintenance to applicable station equipment. A 90 day warranty will be provided for items considered consumable (see below). Coverage will apply if the contract is extend

3. Consumables

Description	Price
Oxygen (O2) Sensor	\$ 207.00
Filter element, Small	\$ 22.65
Filter element, Large	\$ 32.40
Filter, Membrane	\$ 30.00
Fuse, 4.0A 250V	\$ 7.08
Inline Filter w/ tubes	\$ 10.50
Exhaust Probe Handle .....	\$82.68
Gas Analyzer Probe .....	\$89.43
Sample Hose .....	\$104.64
Power Cable .....	\$46.50
Comm Cable .....	\$252.00
OBD Cable .....	\$73.50
USB Cable .....	\$30.00

\*All pricing information is included in Applus+' Price Proposal.

**Appendix I: Exhibit 4**

**EXHIBIT 4**  
**REFERENCES**

**REFERENCE #1:**

Contact Name: Kenneth F. Nappi, Bureau Chief  
Company Name: State of Connecticut Dept. of Motor Vehicles  
Address: 60 State Street  
City/Zip: Wethersfield, CT 06161  
Contact Phone: 860-263-5144

Description of Contract / Service:  
Connecticut's Emissions Program, Decentralized,  
Applus+ is the current Contractor

Final Contract Amount: \$ \_\_\_\_\_

**REFERENCE #2:**

Contact Name: Chris Demeroukas, Manager  
Company Name: Division of Mobile Resources, IL EPA  
Address: 1021 N. Grand Avenue, East  
City/Zip: Springfield, IL 62794  
Contact Phone: 217-524-4369

Description of Contract / Service:  
Illinois Vehicle Emissions Testing Program, Hybrid,  
Applus+ is the current Contractor

Final Contract Amount: \$ \_\_\_\_\_

**REFERENCE #3:**

Contact Name: Phyllis Bass, Data Management  
Company Name: State of Washington Dept. of Ecology  
Address: 300 Desmond Drive, SE  
City/Zip: Olympia, WA 98504  
Contact Phone: 360-407-6822

Description of Contract / Service:  
Washington's Vehicle Emissions Program, Centralized,  
Applus+ is the current Contractor

Final Contract Amount: \$ \_\_\_\_\_

**Appendix J: Attachment A**

## Attachment A

### Preference Given for Local Business

The County Council passed a policy that County purchases shall be awarded through a local preference system.

A local preference may accrue to a vendor who submits the low, responsive price for a goods and/or services contract if other factors are met. To be considered for a preference, offerors must agree to provide a complete and signed Local Certification Form, which includes a street address within the County that is not a post office box, a copy of a current business license issued by the County or any of the cities within the boundaries of the County and proof of registration with the State of Utah of an authorized agent to accept service of process. In addition, offeror must maintain local business status and current business license as required for the period of the contract. Completion of required information under the Alternative A portion of this document shall serve as compliance of submittal of a Local Certification Form.

For the preference to apply, the preferred offeror's price cannot be higher than 104% of the lowest offeror who does not claim a preference for award of this contract if the total amount of the contract is under \$250,000. If the amount of the contract is between \$250,001 and \$1,000,000 the offeror's price cannot be higher than 101% of the low offeror who does not claim a preference for this award of contract. For contracts of \$1,000,001 and greater, the preferred offeror's bid cannot be higher than \$50,000 of the low offeror who does not claim a preference for award of this contract.

- Alternative A** shall be to complete a signed Local Certification Form, which includes a street address within the County that is not a post office box, a copy of a current business license issued by the County or any of the cities within the boundaries of the County and proof of registration with the State of Utah of an authorized agent to accept service of process. If marking this box as requesting Alternative A, please complete the Local Certification Form on page 2 of this Attachment A and submit required documentation with bid response.
- Alternative B** Marking this box as Alternative B the vendor is choosing not to submit under a local preference.

If no Alternative A bids are submitted or the Alternative A bid does not fall within the limits shown above, the bid will be awarded to the lowest responsive responsible bidder without preference.

Vendors may qualify for either the health care preference or the local business preference, but not both.

If required documents are not submitted with the solicitation requesting Alternative A preference, documentation must be provided within (5) five days after being notified that their bid is under consideration for award based upon this preference. If the documentation is not received within the five-day limit, the County will disqualify the preference status.

The County will have the right to monitor the contractor's compliance with requirements for local preference status. Violation of this contract condition shall be the basis for immediate termination of the contract for default by the contractor.