



Tools Technology Training

Southern Cross' AMLD Technology Solutions Key Applications

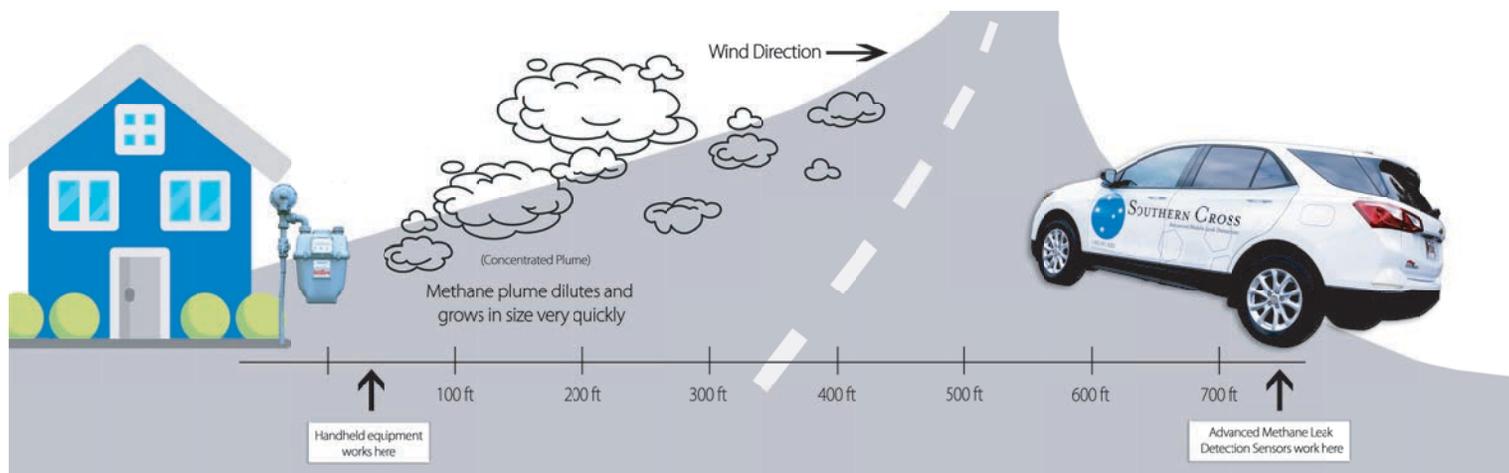
Many customers strategically outsource solutions because of resources, risk mitigation, cost or even a lack of expertise. The Southern Cross Advanced Mobile Leak Detection solution (AMLD) provides a pathway to rapid adoption of the latest advance technology that has been preconfigured to meet customer's needs. The solution combines decades of field experience with advanced mobile leak detection technology that improves efficiency, accuracy and provides additional value.

Southern Cross' Advanced Mobile Leak Detection Solution is setting the precedent for and is changing the way we view leak survey by providing faster more reliable data that can be utilized to solve a multitude of issues for our providers including safety, emissions reductions, and quality. In this way Southern Cross' is providing the best of both worlds - traditional leak detection model with technological benefits of a best-in-class advanced mobile solution.

With decades of experience under its belt, Southern Cross believes there is an optimum way to include this advanced mobile leak detection technology as part of the solution for compliance leak survey, emissions quantification ranking and other applications. Our outsourcing model is geared toward providing a solution that meets our customers entire needs using our AMLD solutions combined with traditional solutions in ways where it will deliver the maximum value.

Southern Cross is one of the largest providers of field services in the North America. The power of an advanced leak detection technology that is x1000 more sensitive than traditional methods combined with big data analytics allows Southern Cross to make better decisions and is an incredible tool to have as part of our outsourcing solution. In this way, Southern Cross can enhance the value it can deliver to its customers in traditional leak survey, expansion into supporting DIMP modeling and even support our customers in making better decisions around which pipes should be targeted for replacement.

How does Southern Cross' AMLD work?



Advanced Mobile Leak Detection Applications

Regulatory Compliance Survey



Southern Cross' AMLD solution drives efficiencies in mapping and survey large urban and rural areas. Data collection is conducted multiple times on these areas using Southern Cross AMLD solution. Advanced data analytics then generates maps with leak indications that can then be confirmed and repaired using traditional methods.

The AMLD technology will add efficiency to the traditional leak survey model through more effective identification, quantification, improved quality assurance in addition to reducing the impact of weather and resource constraints on a project. Ultimately it helps identify and remove more risks from a utility's infrastructure.

DIMP Asset Management



Southern Cross' AMLD solution can expand the value of a survey through rapid generation of data that improves the accuracy of DIMP risk modeling. An environmental survey can be used to evaluate the overall risk model in an area expanding the DIMP. The AMLD solution can be used to pre-quantify the elimination of emissions that will be gained from an expensive capital pipe replacement program assisting utilities to prioritize which projects will the greatest impact to their overall integrity program.

Environmental data combined with asset information can also be utilized to identify pipe segments with quantifiable leak density allowing for a prioritized O&M approach to pipe replacement and repairs. It can also help support the



Environmental and Emissions Reduction Program

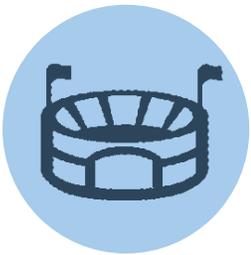
Using the same technology platform, Southern Cross will be able to assist our partners in their methane emissions reduction programs by providing capabilities for measuring flow rates and Ethane quantification capabilities. Using Methane Emissions Quantification measurements and big data analytics, Southern Cross can provide our partners with a comprehensive and actionable set of emissions metrics to accelerate methane emissions reductions in their territory.

Emissions measurements allow the highest-emitting leaks to be identified and targeted for expedited repair so as to gain the most benefit in methane reductions from leak repair activities (above and beyond repairs from leaks found by compliance survey or leaks removed by pipe replacement).



Auditing Traditional Leak Surveys

The AMLD solution is capable of detecting more leaks on average than traditional methods. As such the solution can be used to rapidly audit any traditional surveys and provide a degree of confidence and safety.



Pre-Event and Public Safety Audits

The AMLD Solution can be used to rapidly survey public spaces such as stadiums, concerts, universities and other areas of public gathering. The technology will identify any existing leaks around the area quickly and a technician can then be dispatched to the exact location to make a determination.



Frost Patrol

Frost patrols of pipelines during the winter months is important from a public safety point of view not to mention the loss of valuable natural gas from the system. The AMLS solution can be used during the winter months to assess the pipelines for problems due to the frost and thaw cycles associated with cold-weather conditions.



Pre and Post Quality Construction Audits

The AMLD solution can be used for both pre and post construction audits to quickly evaluate natural gas leaks from any newly installed infrastructure or to assess any damage to existing infrastructure from work of any third party.



Disaster Recovery

Following any natural disaster such as tornados, hurricanes, earthquakes, wildfires or flooding which can cause damage to existing natural gas pipeline infrastructures, the AMLD solution from Southern Cross' can be used to quickly determine the extent of damage by surveying large parts of land and identifying any new leaks. Dispatch crew can then be quickly dispatched to the exact locations saving time and enhancing public safety.

Authors:



Alnoor Ebrahim
Marketing
Southern Cross
& Spear Group



Jordan Ponizhaylo
Marketing
Southern Cross
& Spear Group

Let's get started. Contact us today!



Jessica Liu
President
Spear Group
Tel: (404)893-5059



Jody Boyles
Business Development
Southern Cross
& Spear Group
Tel: (919)799-3701



Angela Baylis
Account Executive
Southern Cross
& Spear Group
Tel: (770)255-1283



Steve Whitman
Account Executive
Southern Cross
& Spear Group
Tel: (678)548-8271



Tim Jackson
Account Executive
Southern Cross
& Spear Group
Tel: (470)244-9364



Cheryl Jones
Account Executive
Southern Cross
& Spear Group
Tel: (509)263-4128

About Southern Cross

Since 1946, Southern Cross has been an industry leader in providing Pipeline Safety and other Field Services. Today, Southern Cross continues to provide Field Service solutions to the Gas, Electric, Water, & Energy/Oil Industries. Our services include traditional leak survey and inspections, meter deployments including AMI/AMR, locating, professional services such as project management and project controls, and much more. Southern Cross is dedicated to remaining at the forefront of our industry's technological advancements and we are constantly innovating our solutions and methods. Proud of our rich history, confident about our current offerings, and excited for what's next, Southern Cross upholds our reputation as a "Trusted Partner of Utilities Everywhere".

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