SOLUTION BRIEF

Streamlining Inspections and Maintenance in Hazardous Area Operations

Arnlea's IntrinsixEX + aegex10 Intrinsically Safe Solutions

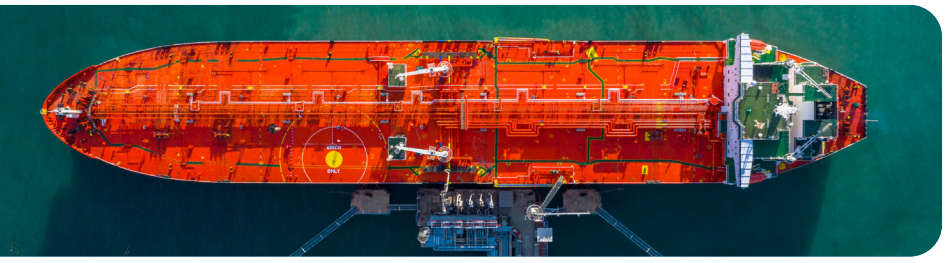
The Challenge

Efficient inspections and maintenance activities are a challenge in hazardous area operations, where electronic devices that potentially could ignite combustible environments are prohibited. In industries with hazardous locations, such as oil and gas, technicians must record inspection data or log repair work details by hand with pen and paper in lieu of mobile devices. This work can become time-consuming and costly, especially if facilities must be shut down for computer-based inspections and maintenance to take place.

The work of oil and gas inspectors and maintenance professionals could be greatly streamlined if they could capture inspection and asset data digitally and upload it directly to the cloud or back-office systems.

The Solution

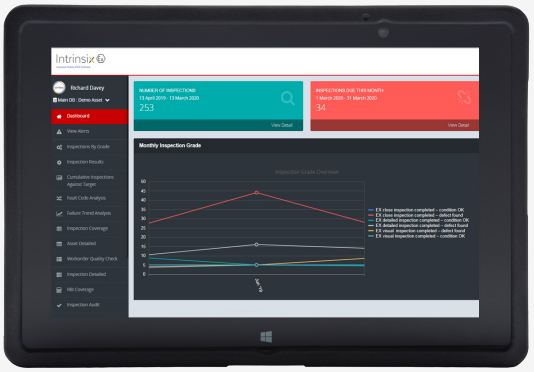
Mobile devices that are certified to operate in hazardous areas can run cloud-based data-capture and asset management applications that save time and money. Utilizing Arnlea's **IntrinsixEX** on **aegex10™ Intrinsically Safe Tablets** helps streamline inspections and maintenance operations to increase uptime in oil and gas and other hazardous area operations.



IntrinsixEX

IntrinsixEX is an industrial mobile software application that optimizes data capture for greater efficiency in the inspection and maintenance of hazardous area equipment. Incorporating mobile auto-ID technology such as RFID tags, plus strategies including risk-based inspection (RBI) analysis, IntrinsixEX makes hazardous area inspections mobile and "intelligent," thereby improving efficiency, reliability and asset life.

aegex10 Intrinsically Safe Tablet



Personnel can bring digital applications like IntrinsixEX directly into hazardous area operations at the point of data capture with the Windows 10 **aegex10™ Intrinsically Safe Tablet** that is certified for Class I Division 1 and ATEX/IECEx Zone 1 hazardous areas.

- **Intrinsically Safe C1D1, ATEX/IECEx Zone 1**
- **4G LTE, WiFi**
- **IP65**
- **Bluetooth, NFC, GPS**
- **-10°C to +50°C**
- **12-hour battery**
- **980g / 2.16lbs**
- **Optional hands-free carrying case, stylus**
- **IoT ready**

The Results

Completing hazardous area equipment inspections with IntrinsixEX on aegex10™ Intrinsically Safe Tablets enables:

The combined solution results in:

- **Cloud-connecting** inspectors' or maintenance personnel's activities for traceable, real-time reporting
- **Completing** digital inspection forms and checklists
- **Capturing** photo and video data about assets
- **Consulting** digital manuals or other information
- **Communicating** with offsite experts and team members
- **Ordering** replacement parts or service
- **Inventorying** assets
- **Accessing** equipment design information, maintenance records and process safety management information
- **Performing** asset integrity data analysis onsite
- **Recording** data to cloud-based back office systems
- **Syncing** work order notifications with ERP
- **Time-stamping** records and activities for compliance and continuity
- **Visualizing** risk-based inspection (RBI) alerts and thresholds for RFID tags, areas and work orders
- **Maintaining** a central database location for multiple users to edit simultaneously
- **Improving** accuracy of data via real-time digital capture versus pen and paper

By performing these inspection and maintenance activities in hazardous areas, organizations can:

- **Increase** inspectors' efficiency by an average of **150%**
- **Decrease** inspection campaign time by up to **50%**
- **Improve** turnaround time for faulty or ineffective equipment for greater output
- **Reduce** inaccuracies and lost data via real-time recording and synchronization with ERP
- **Reduce** paperwork for cost- and time-savings
- **Standardize** inspection and reporting processes to speed up data interpretation
- **Ensure** compliance with safety regulations
- **Enable** better management decision-making

Together, IntrinsixEX and aegex10 Tablets enable greater operational efficiency, asset integrity and regulatory compliance while reducing costs and improving safety in oil and gas inspections and maintenance.

aegex™ TECHNOLOGIES

Aegex delivers innovative solutions that drive improved performance for industries with hazardous environments. Our globally certified intrinsically safe tablet provides cloud connectivity to personnel working in some of the world's most volatile environments in public safety, oil and gas, chemical, pharmaceutical and other industries with potentially explosive atmospheres.

www.aegex.com

arnlea

Arnlea is an industrial mobile software business working extensively in the Oil and Gas Market, supplying our Intrinsix products to optimise mobility, data capture (such as RFID) and efficiency in Asset Management.

Intrinsix is available as a complete solution or in separate modules and can run either standalone or fully integrated with clients' corporate system.

www.arnlea.com