

Asset Management Data Collection and Storage



Advanced Engineering Solutions Ltd (AESL) has developed computer-based project and asset data collection, recording and storage techniques, initially for use in their in-house pipeline condition assessment work. However, customers now increasingly rely on these techniques to record and store data from various equipment, inspection and audit procedures, including asset location by GPS.

The data collection, recording and storage processes were designed to provide real time data capture, rapid analysis and audit, flexible storage and remote access facilities via a managed Web connection. Real time feedback is also provided on site, providing critical asset information calculations.



Site Data Collection via 'PDA' Data Management Process

The process involves on-site data collection using a hand-held computer (Personal Digital Assistant or PDA) running AESL software designed to meet the client's requirements for their asset or audit data collection/analysis.

Asset bases operated by Utilities companies usually has a wide geographic spread, so GPS location is integral to the PDA, to record the location where data is collected. The PDA then transfers the data from site to AESL's dedicated servers, via integral mobile phone. The client is given password-protected access to their raw and analysed data, for display or download to their own office.

GPS location also forms the basis of an 'audit trail', providing an accurate record of where the data originated and ensuring easy location for future visits. GPS location is also used in map or numeric form to define and request specific asset data.



Asset Location Maps

Software is purpose written to meet client's specific data requirements, designed to allow economic data collection and rapid, effective analysis of the required parameters.

Many AESL projects, including all condition assessment work, utilise PDA data collection processes, analysis, reporting, and the same storage and access procedures via AESL's dedicated servers.

These technologies are now applied by AESL, and the majority of their customers, during field inspections, audits, etc throughout the UK and in a number of other countries.

- Pipeline inspection and routine condition assessment field work
- Pipeline CP corrosion protection systems
- Reservoir - valve and pipeline surveys
- Pipe installations in flatted properties
- Gas control installations (ATEX Directive)
- 'Maximum Operating Pressure' definition on gas transmission pipelines

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