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INTRODUCING A3D DESIGN CAPABILITIES

Advanced 3D Laser Solutions (A3D) are now widely acknowledged as the foremost 3D Laser surveying and modelling company, specialised in the process industries. The A3D client base establishing business across major petrochemical and chemical storage terminal operators and refineries. Now, with the launch of our 4D Lizard software, A3D introduces the capability to optimize client's existing asset, document and maintenance management systems, using our A3D process models and P&IDs as a viewing portal. For our smaller process operators, our 4D Lizard software has built in management systems already. As an economically viable cloud-based viewing platform, 4D Lizard is also used by our clients to view our 3D models and Smart PIDs during construction.

Our success in establishing ourselves within this demanding industry can, in no small part, be attributed to our solid traditional engineering background. Maintaining our knowledge of current legislative influences, A3D continue to support our client's operations. With the introduction of our 3D technologies, A3D have striven to advise our client's in the many ways a 3D process model can be utilized in support of their business.

One important facility being the use of our component models as a basis for carrying out detailed design. The gathering of 3D laser scan data, especially that covering elevated pipework and structures, will remove the need for temporary access for subsequent measurements to be completed. Using our captured 3D laser scan data, A3D can prepare site GA's, complete bund volume analysis, tank visual analysis and develop our 3D models where further site details can be added from the recorded laser scan files. An example being for A3D to develop our 3D model to demonstrate conceptual studies as part of a FEED project. The potential savings to clients our considerable using our 3D techniques rather than having to engage separate companies who will insist on completing their own site surveys. As FEED moves through to detailed design, the final 3D model will enable export of to the pipework fabrication packs.

Up to now A3D have not widely advertised this extended service, however several our clients have been tapping in to the A3D engineering skillset in order to achieve small to medium engineering initiatives. The demand for these engineering services is increasing as clients look for cost effective solutions as an alternative to using an EPC contractor. Our supply chain of well-established engineering resources is therefore available for A3D to support our clients. Offering 21st century solutions using our 3D technologies and an engineering team equipped with the traditional skills demanded by our clients.

A3D have cost effective engineering solutions, using our 21st century technologies

Graham Boxer,
Operations Director