



ASSET INTEGRITY MANAGEMENT



OVERVIEW OF ARCUS

The **ARCUS** Platform provides a technologically innovative solution to completing Inspections in the challenging environments of the Oil & Gas Industry. It provides a framework to manage, maintain and inspect your critical assets to help maintain asset integrity.

Using the latest Zone 1 and Zone 2 ruggedised tablets, the ARCUS suite of services utilises RFID Tags for Asset Identification through a pre-defined

Inspection process with photographic evidence of inspection. RFID is a method of positively identifying an asset through the use of a very rugged microchip which is read by a very low radio signal.

Inspection and maintenance data is then synchronised to a cloud based portal, to provide near real time reporting to onshore management. The multi-level security framework ensures your inspection data is secure.



ID	Asset Type	Location	Status	Action
1	Well Head	Well 1	OK	View
2	Well Head	Well 2	OK	View
3	Well Head	Well 3	OK	View
4	Well Head	Well 4	OK	View
5	Well Head	Well 5	OK	View
6	Well Head	Well 6	OK	View
7	Well Head	Well 7	OK	View
8	Well Head	Well 8	OK	View
9	Well Head	Well 9	OK	View
10	Well Head	Well 10	OK	View





ARCUS-DROPS provides management of potential static and dynamic dropped objects on your offshore and onshore assets.

- Recording of detailed safety securing and retention methods
 - Asset scheduling aligns itself with your Preventative Maintenance regime
 - Photos help identify assets and are also used to support corrective action resolution and close-out.
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The **ARCUS-LGI** solution provides structured inspection and validation of items such as Loose Lifting Gear, Cranes and Winches. The services enables customers to provide a simple inspection process of their own assets and allows third-party inspection companies to quickly and accurately locate and inspect assets. This improves the efficiency of the inspection process and as a result, will reduce the end cost. Through the use of the cloud portal, certificates can also be generated, issued and electronically attached to each asset.



Effective and controlled preventative maintenance is a must for electrical equipment located within the hazardous areas of an offshore and onshore facility. The **ARCUS-EX** service allows the identification and tagging of EX assets and provides an inspection process which is pre-defined in line with your companys PM System. Each item of equipment is tagged with a unique RFID (HF) tag which will provide detail, certification, documentation and inspection history with real time reporting.



The **ARCUS-Hose** service provides the identification and tagging of hose assets using multiple tags, providing real time reporting of location and condition. Detailed recording of asset details such as manufacturer, length, flange types, purchase date, supplier, wall thickness and tolerance measurements etc. help provide an analytical view to aid preventative maintenance. The pre-defined inspection can then be carried out in line with existing customer PM System.



Regular inspection of bolts and the area surrounding them is imperative to mitigate against corrosion in the harsh environments of the Oil & Gas Industry. The **ARCUS-Bolt** service identifies the bolts included in the scope of that inspection with a master tag and photographic evidence ensures bolts are inspected. Provides inspection criteria including items such as tap test, torque and visual checking and supports up to 20%/5 year inspection rotation. Colour coding may also be used to provide an immediate visual check of inspection status.



The **ARCUS-BOP** service records the identification, journey and maintenance history of sub-assets with a real time audit trail. Using very robust and durable RFID tags to tag BOP sub-assets, tested to 10,000ft depth and several years repeated sub-sea use up to 6 months at a time.