

## SPECIALIST SERVICES:

# FLEXIBLE HOSE ASSEMBLY INTEGRITY MANAGEMENT

Hydrasun's Flexible Hose Assembly (FHA) Integrity Management model manages each stage of the hose management process from design and specification through to supply, installation and planned risk-based integrity programmes.

Flexible Hose Assembly (FHA) failure is one of the largest contributors to unplanned hydrocarbon release in the oil and gas industry. In line with "Step Change in Safety" requirements, industry regulators are applying increasing pressure on operators and contractors to demonstrate that they have formal processes and controls in place to maintain the integrity of FHAs on their equipment packages and assets.

Hydrasun works closely with our customers and leading industry bodies, and is now at the forefront in the development of best practice technical guidelines for the integrity management of FHAs.

Hydrasun's FHA Integrity Management service assures the safe, reliable and efficient performance of FHAs, from basic hydraulic through to bulk and drilling hoses, by developing risk mitigation strategies to avoid unplanned hydrocarbon releases.

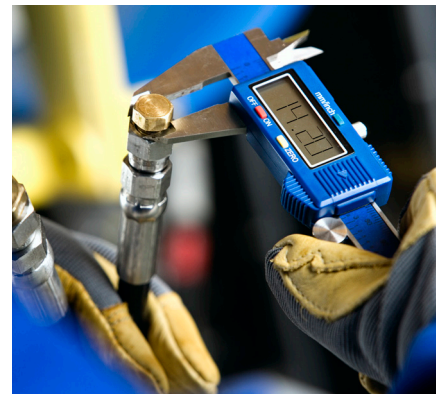
Our Integrity Management team develop and implement auditable and transparent systems that comply with industry guidelines as well as customer policies and standards.

During the last 15 years, Hydrasun has built up considerable experience, expertise and competence successfully delivering Flexible Hose Assembly Integrity Management programmes for operators and major contractors in the oil and gas, marine, defence and energy sectors. Building on this success Hydrasun also offers Small Bore Tubing Integrity Management services.

Our proven model provides customers with customised solutions including development of procedures and maintenance strategies based on industry recognised guidelines, manufacturers' recommendations and industry best practice. It also includes the provision of risk classification, hose registers, databases, inspection regimes and historic data regarding the service life of flexible hose assemblies.

### Hydrasun FHA Integrity Management:

- Provides risk mitigation strategies to avoid unplanned hydrocarbon releases
- Ensures compliance with industry guidelines
- Delivers an auditable and transparent FHA Integrity Management System
- Conducts onsite inspection surveys by OPITO accredited surveyors
- Utilises industry recognised data management & reporting tools
- Has a dedicated technical & engineering support team



# FLEXIBLE HOSE ASSEMBLY INTEGRITY MANAGEMENT

## Guidelines & Procedures

A fundamental building block to creating an auditable and transparent Integrity Management System is Integrity Management guidelines and procedures. Hydrasun works closely with customers to develop new, or revise existing, guidelines and procedures in alignment with customer's internal policies and standards.

Examples of required guidelines & procedures include:

- FHA management manuals
- Performance standards
- Integrity management standards
- Engineering technical practice

## Engineering & Technical Support

Our team provides engineering and technical support to ensure we meet customer's integrity management requirements:

- Onsite FHA inspection surveys
- Material selection recommendations
- Design and installation support
- Product assembly
- Engineering support services
- Competency assessment
- Product training

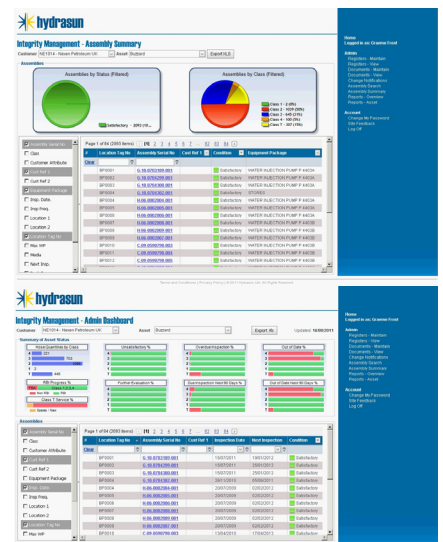
## Data Management Services

The Hydrasun Integrity Management (HIMS) Database is an industry recognised web based customer interface tool, accessible through our Hydralink system. A powerful reporting tool, HIMS can be configured to interface with customer's internal business systems. It is an effective solution for the management of FHA data gathered during inspection surveys which facilitates the:

- Control and management of survey data collection
- Individual or multiple site based FHA inspection survey analysis
- FHA status reports and cross/installation comparisons
- FHA failure trends and historical analysis
- Strategic decision making for implementation of future inspection and maintenance strategies.

## Hydrasun Integrity Management Division:

- Over 60 staff dedicated to Integrity Management
- Over 50+ OPITO accredited surveyors for HIM and SBTIM
- Worldwide service
- Hose assembly fitting capability
- SBT fitting capability
- Containerised workshops
- Members of Energy Institute
- Participants in Energy Institute's FHA Integrity Management and SBT Integrity Management Guidelines



For further information on  
FHA Integrity Management Services contact: