

DACON'S PIPELINE SERVICES IN ACTION



RISER INSPECTION

Dacon was called on to perform an offline inspection of a 6" riser on an offshore platform. Visual inspection confirmed that severe corrosion was likely at the position of the hanging riser clamp and that external ultrasonic inspection was not possible due to the location and extent of the corrosion.

Using a tethered Ultrasonic Intelligent Pig system it was possible to inspect the line over a length of 50 meters and provide a highly accurate assessment of the extent of the corrosion at the position of the hanging riser clamp which had external corrosion down to 3.58 mm, representing 79.5% metal loss.

This critical wall loss was identified and reported to the customer within 30 minutes of tool retrieval and our API qualified inspection personnel recommended that the pipeline be shutdown and repaired. A comprehensive dig sheet was provided highlighting all areas of concern with recommendations.



HDPE PIPELINES

Dacon was contracted to develop and build a pipeline inspection tool capable of measuring the condition and remaining wall thickness of high-density polyethylene (HDPE) pipelines used to transport tailings for a major US mining corporation at their flagship mine site in Indonesia.

These high wear lines are 40" in diameter and run for 3.4 kms before finishing on the seabed at a depth of 160 meters. Our tools were developed with both the capability to accurately assess the integrity of the pipelines and also to be retrievable when exiting the pipeline on the ocean floor.

Dacon have ensured continuity of service and predictive reporting by completing dozens of successful inspections of these lines over the last 10 years and the technology has been successfully applied to smaller diameter HDPE lines and HDPE lined steel pipes where both the liner and steel can be measured.



FPSO TO PLATFORM

Inspecting a pipeline from a platform to an FPSO is particularly challenging when passing through the flexible riser and turret into the receiver. This 2.7 km 6" line carries condensate and there were concerns about wax build up as this was the first time that the line had been inspected.

A specialized compact and light weight, twin bodied tool was developed for easy launching and receiving in the restricted access space available. Gel pigs were run as the first step to provide confidence that the lines were not obstructed by wax build up.

Close cooperation between marine, operations and Dacon were required when the FPSO turret needed to be perfectly aligned with the riser to allow for the pipeline cleaning and inspection tools to pass through. Data was successfully acquired after an obstruction and incident free online run.



BULK STORAGE TERMINAL

When precise measurements for verification of the remaining wall thickness of jet fuel lines running from bulk storage tanks at an offloading terminal to storage tanks at an airport terminal were required Dacon's ultrasonic intelligent pigging system was put into action.

The lines were 8" in diameter and 22km and 3.5kms in length. There were further challenges as one line had an obstruction that was identified during a foam pig cleaning run. After assessing the obstruction using our progressive pigging system we were able to recommend running the intelligent pig.

The expertise and experience of our team was critical in the successful completion of the work as the obstruction did not impede the intelligent pig and complete data was acquired without incident. After assessing the data on site recommendations were made to allow for continued safe use of the lines.



GLOBAL PIPELINE INTEGRITY SOLUTIONS

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PIPELINE SERVICES

PERFORMANCE YOU CAN TRUST



WHO WE ARE

Headquartered in Asia our journey began 25 years ago in Norway from where we have grown to be Asia's leading Inspection Services Company.

Dacon delivers Pipeline Integrity Solutions built around global expertise, international experience and local knowledge. With a reputation built from operational excellence and a can do attitude we offer complete asset integrity services that you can trust day in and day out.

Dacon works with many of the world's leading multinational companies in the Oil & Gas, Mining, Refinery, Petrochemical and Fabrication industries and has completed many projects globally.

We operate in an industry that is fast paced and inherently hazardous which is why Dacon is committed to a policy where "everyone goes home safely" including staff, clients and local residents.

Through continuous training and development of processes and procedures Dacon's Management Team and Board is committed to ensure that international standards of safety and quality are our first priority.

INLINE INSPECTION

Dacon has developed a comprehensive suite of online inspection tools designed for precision, accuracy and reliability.

All of our inline inspection tools have the capability to detect locate and assess internal and external wall defects or metal loss.

With the technology to record up to 1,600 readings per second our tools provide a complete profile of your pipelines with extraordinary accuracy.

Our lightweight and compact intelligent pigs and extensive engineering capabilities allow us to specialize in inspecting "unpiggable" pipelines. We have successfully inspected lines with no launching and receiving facilities, unbarred tees and restricted access areas.

Dacon's tools are capable of inspecting all pipelines (subsea, underground or above ground) including carbon steel, austenitic steel, concrete lined, and high density polyethylene (HDPE).

DATA ANALYSIS

Understanding the condition and remaining life of your pipeline is essential in planning maintenance schedules and minimizing costs and accurate data acquisition and analysis is critical.

With up to 1,600 readings per second collected by our Intelligent Pigs the highly accurate data is compressed by our software and presented in an easy to understand "traffic light" format where green is good, amber is medium, and red is a severe defect.

With a clear and easy to understand reporting format analysis is quick and simple and immediate onsite assessment can be provided before the full report is drafted.

Dacon's data analysis and reporting system helps clients to optimize scheduled maintenance and inspection planning and increase asset reliability and integrity across its pipeline operations.

PIPELINE INTEGRITY SOLUTIONS

At Dacon we understand that your pipeline is your most valuable asset and that close working relationships and collaboration is the key to building trust and ensuring the successful delivery of asset integrity services.

Tool technology, experience, precision and service reliability are all key attributes that Dacon brings to every project to ensure your pipeline flows at maximum efficiency and that integrity threats are identified quickly and accurately.

With over 25 years of global experience Dacon has the proven track record and capability to provide complete Pipeline Integrity solutions:

Pipeline Cleaning
Fitness for Service
Intelligent Pigging

Pipeline Gauging
Caliper Pigging
Inline Inspection

To support our full suite of Pipeline Integrity Services we operate comprehensive pipeline test yard facilities where we are able to mock up any configuration of pipeline spools and perform pull through tests to give our clients complete confidence that our solutions will provide accurate answers to complex questions.

RESEARCH AND DEVELOPMENT

Dacon's research and development center is based in Asia with over 15 multinational and highly specialized personnel including Doctors in Physics, Mathematics, Engineering and Mechatronics.

With in-house design and engineering capabilities we are able to closely collaborate with clients to build and design solutions for ever more challenging needs in difficult operating environments.

With innovations in tools for inspection of traditionally difficult assets such as HDPE lines and Concrete Lined pipelines Dacon has proven our capability to deliver customized solutions to multinational oil and gas companies around the world.

Our can do approach means no job is too technically challenging for us and we are continually working on new inspection systems both by client request and by our own desire to build the best solutions technology can provide.

