



# SLOFEC™ Technique for Vessel Scanning

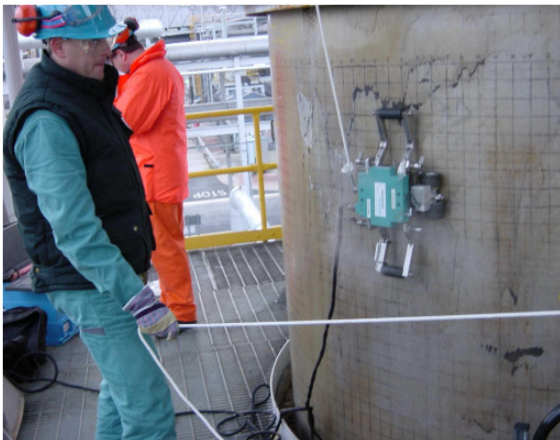


One of the main applications of Innospection's SLOFEC™ technology is the inspection of vessels.

This technique has been proven in the field as a high speed and reliable method in detecting local corrosion in pipes.

The capabilities of the SLOFEC technique in vessel inspection are:

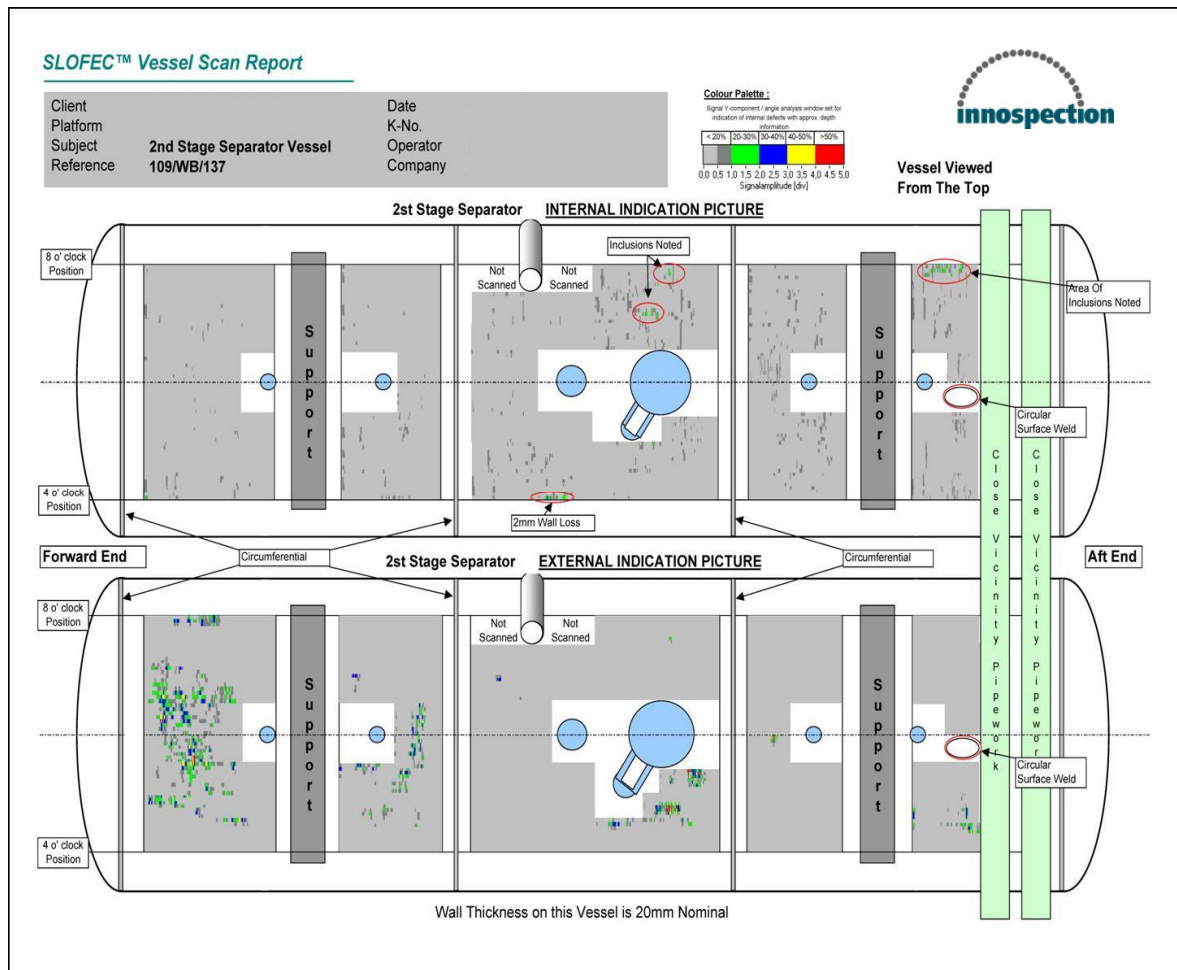
- Experienced with vessel wall thickness range up to 30mm
- Experienced with vessel coating thickness up to 5mm
- Experienced with vessel temperature of up to 120 deg C
- Experienced with inspecting stainless steel and Monel-clad vessels
- Able to inspect horizontal and vertical vessels both internally and externally
- Able to inspect different pipe materials  
(carbon steel, stainless steel, duplex, super duplex, monel, etc)
- Able to provide online "Real Time" inspection analysis
- Separate reporting capability on both internal and external conditions
- Defect assessment, integrity and monitoring support
- Special cracking detection tools are available



## Examples of vessel inspection using the SLOFEC technique

### Example 1 : Vessel inspection

Project : To detect overall internal corrosion in vessel  
 Vessel : Wall thickness 33mm  
 Defects detected : Internal localised corrosion 20% to 30%  
 Scan Report : Sample as shown below



## Example 2 : Detection Reliability Study on Knockout Drum on Vessel

A detection reliability study was carried out on a Knockout Drum on a vessel. The drum was inspected with the SLOFEC™ technique and Ultrasonic Testing. It was detected with internal localized defects with a 30% wall loss.

An Ultrasonic Testing (UT) re-inspection of the detected defects was done and the result showed the reliability of the SLOFEC™ technique.

The diagram below shows the result comparison:

- The first portion shows the UT mapping and SLOFEC™ results
- The second portion shows the UT re-inspection results of SLOFEC™ detected defects

