

## HSE Case Study - Unnecessary geometrical indication repairs

**40% of inspectors made a false call according to an HSE case study! How often do you repair geometrical indication?**



In 2008 the Health and Safety Executive organization in the UK published a case study on "manual ultrasonic inspections" carried out with multiple operators.

### **Geometrical indication of real flaw?**

In this case study, 40 individual certified ultrasonic operators had to inspect three different test samples with complex weld geometries.

Their performance was recorded and statistically analyzed; this study concluded that 16 false calls were reported by the operators. Generally speaking, false calls occur when the operator is not able to make the distinction between a geometrical indication or a real flaw.

Understandably enough too many false calls would have a significant impact on productivity, leading to unnecessary repair works. According to the presenter of HSE studies, "successful inspectors are special and rare. They need to be cultivated through training with provision of the best tools available and continually reinforced through management support".

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*What if the inspectors didn't have the appropriate tools to properly differentiate a geometrical indication from a real flaw? What if a new technology that is currently available can help them make this distinction?*

## No more false calls!

Sonatest WAVE introduces an **interactive scan-plan**, that allows the operator to **precisely create the weld configuration** as well as material velocity and the wedge angle. This combined with a **real-time ray tracer** would eventually help the operator differentiate a real defect from a geometrical reflection. Once integrated into the inspection process, the Sonatest interactive scan-plan would significantly **reduce the probability of false calls and lower your unnecessary repair costs.**



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Geometrical indication at the root of the weld sample

With more than 60 years of experience in developing **ultrasonic testing flaw detectors** globally, Sonatest WAVE will truly help technicians focus on their acoustic (A-scan) by adapting the instrument to the reality of each inspection, and to report with confidence. using an innovative and interactive weld defect localization solution.