



TÉCNICAS AVANZADAS
ENSAYOS NO
DESTRUCTIVOS

EGS

- Most of the codes and standards stabilises certain conventional NDT methods for controlling the quality of the welds during manufacturing/erection
- Some standards have adapted the requirements and acceptance criteria to these new techniques: example:
 - DNVGL-OS-C401:
4.4 Ultrasonic testing 4.4.1 UT, including time of flight diffraction (TOFD) and phased array ultrasonic testing (PAUT) techniques, shall be performed in accordance with agreed procedures. The procedures shall be established in accordance with DNVGL-CG-0051.
 - DNVGL-CG-0051
*... it may also be applied for flaw detection of non-welded metallic materials. For radiographic testing of forgings and castings and use of **digital detectors**...*
- Also these advanced techniques may be applied during maintenance/repair as described in CSS rules

NDT: Non destructive testing

- ✓ Eddy Current Testing
- ✓ Radiographic Testing
 - Film radiography
 - Non film (Digital) Radiography
 - ToFD
 - Phased Array
- ✓ Ultrasonic Testing
- ✓ Penetrant Testing
- ✓ Magnetic Testing

SOME ADVANCED NDT TECHNOLOGIES



PHASED ARRAY

TOFD

CORROSION MAPPING

GUIDED WAVES

EMAT

DIGITAL RADIOGRAPHY