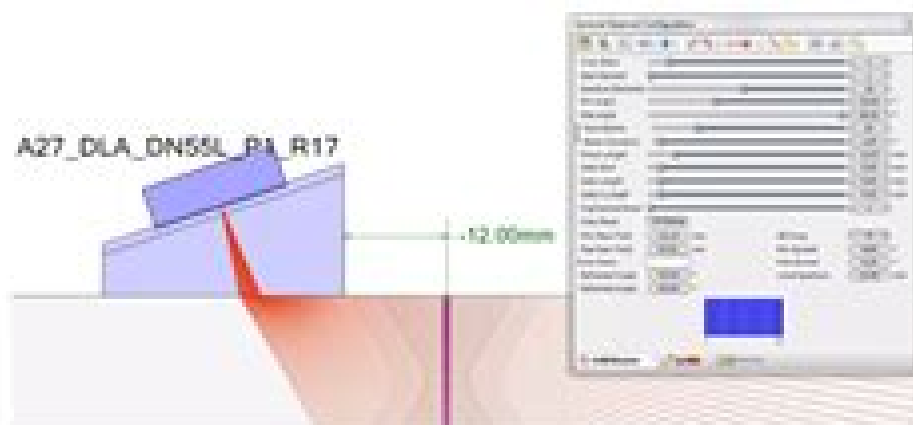
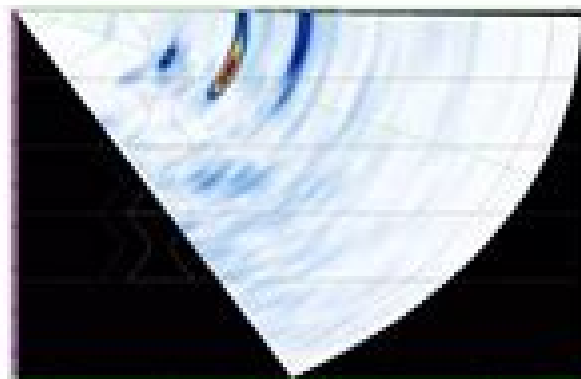


Improvements in PA Inspection of LNG Tanks

PA Setup and Configuration – DLA (Dual Linear Array)

- DLA 30–89 degree S-scan
- DLA uses a pitch-catch technique with an acoustically insulated receiver
- Only refracted longitudinal beams can penetrate the I-625 weld
- Typical flaws are incomplete penetration in weld root, lack of fusion in weld volume, and centerline vertical cracking
- Shear-wave beams cannot penetrate the weld, and successful qualification of LNG shell welds without use of conventional or PA refracted longitudinal (RL) is not possible



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