



PearlStreet

OIL & GAS/PETROCHEMICAL CASE STUDY

NON DESTRUCTIVE TESTING & INSPECTION FOR A MAJOR PLANT UPGRADE

SERVICES: NDT, Inspection

THE PROBLEM

A petrochemical company has an aging and non-financially viable plant.

THE CHALLENGE

To upgrade the plant's operational capacity and process design to manufacture a product that is marketable and contributes to the ongoing viability of the plant, whilst using as much of the existing plant's pipe work and pressure equipment as possible.



OUR INVOLVEMENT

Co-develop, with the customer, specialised testing procedures involving scanning tank floor plates using state of the art magnetic flux leakage (MFL) equipment and analysis tools to determine location of top and bottom side metal loss. The results highlighted corroded areas for ultrasonic follow up to verify the remaining thickness.

FEATURES

- NDT performed 24 hours per day, 7 days per week during the 14 month plant upgrade phase.
- Radiography of replacement plant pipe work and furnace tubes in confined spaces and arduous locations while minimising disruption of the construction contractors labour force
- 2000 NDT reports generated with full traceability to ensure the plant upgrade met both statutory and code requirements

BENEFITS

- Aging plant was successfully upgraded
- Existing infrastructure was used where possible and upgraded where necessary
- Existing plant operations were able to continue with minimal disruption
- Upgrade was completed on time