Oil and Gas Pipeline Design, Maintenance and Repair

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Part 9: Pipe Defects

HELEPE 1

PE 607: Oil & Gas Pipeline Design, Maintenance & Repair

Defect Types	
Geometrical Defects	smaller change in wall thickness than the allowable wall thickness tolerance and result in stress accumulation and concentration.
Defects resulting in metal loss	greater change in wall thickness than the allowable wall thickness tolerance and result in stress concentration.
Planner discontinuities	two dimensions are significantly greater than the third one
Change in metal	do not cause change (or the change does not exceed the allowable limit) in dimension or shape of pipe geometry but they result in disadvantageous change in the material structure and by this way in material characteristics.





























