

ISO 18211:2016-07 (E)

Non-destructive testing - Long-range inspection of above-ground pipelines and plant piping using guided wave testing with axial propagation

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Test personnel	3
5	General	3
6	Factors influencing GWT performance	4
6.1	External diameter	4
6.2	Pipeline geometry	4
6.3	Test range	4
6.4	Road crossing	5
7	Test equipment	5
7.1	General	5
7.2	Probe ring	5
7.3	Signal processing and analysis system	5
7.4	Periodic verification of equipment performance	5
7.5	Instrument settings	6
8	Test procedure	6
9	Requirements for test data quality	6
10	Testing	7
10.1	Preparation of the test object	7
10.1.1	Surface temperature	7
10.1.2	Removal of insulation	7
10.1.3	Wall thickness assessment	7
10.1.4	Surface preparation	7
10.2	Probe ring test position	8
10.3	Data collection	8
10.4	Reporting sensitivity	8
10.5	Data interpretation	8
10.6	Detection sensitivity	9
10.7	Visual confirmation	9
11	Complementary NDT to support the GWT	9
12	Test report	9
Annex A (informative) Selection of guided wave modes		11
Bibliography		15