

Scope of Accreditation for Testing

Certificate No. 14T082/6164

Laboratory Name : UT Quality (Thailand) LTD

Address : 103/5 Moo 6, Tabma, Muang Rayong , Rayong

Accreditation No. : TESTING 0382

Laboratory Status : Permanent Site Temporary Mobile

Field of Tested	Specific Test	Test Method
Civil field 1. Part, components and materials	<ul style="list-style-type: none"> - Ultrasonic testing <ul style="list-style-type: none"> ● Straight beam ● Angle beam - UT Thickness measurement 	<ul style="list-style-type: none"> - ASME BPV Code SEC V Article 5, 2013 Edition (Ultrasonic examination methods for materials) - ASME BPV Code SEC V Article 23, 2013 Edition (Ultrasonic standards) - ASME BPV Code SEC V Article 5, 2013 Edition (Ultrasonic examination methods for materials) - ASME BPV Code SEC V, SE-797/SE-797 M (Standard Practice for Measuring Thickness by Manual Ultrasonic Pulse-Echo Contact Method)
2. Welds, specimens of steels and alloys <ul style="list-style-type: none"> - Ferrous metals - Non- ferrous metals 	<ul style="list-style-type: none"> - Ultrasonic testing <ul style="list-style-type: none"> ● Straight beam ● Angle beam ● Phased array ultrasonic technique ● Time of flight diffraction technique (TOFD) 	<ul style="list-style-type: none"> - ASME BPV Code SEC V Article 4, 2013 Edition (Ultrasonic examination methods for welds) - ASME BPV Code SEC V Article 23, 2013 Edition (Ultrasonic standards)

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Field of Tested	Specific Test	Test Method
Civil field (cont.) 2. Welds, specimens of steels and alloys (cont.) <ul style="list-style-type: none"> – Ferrous metals – Non-ferrous metals 3. Welds, products, parts, materials and components of Ferromagnetic materials	<ul style="list-style-type: none"> – Ultrasonic testing (cont.) <ul style="list-style-type: none"> ● Straight beam ● Angle beam ● Phased array ultrasonic technique ● Time of flight diffraction technique (TOFD) – Magnetic particle testing : Yoke technique <ul style="list-style-type: none"> ● Wet particles method ● Fluorescent wet particles method : black light (UV-A) ● Dry particles method 	<ul style="list-style-type: none"> – AWS D1.1/D 1.1 M, 2010 Edition – ASME BPV Code Sec V Article 23, 2013 Edition SE -2700 (standards practice for contract Ultrasonic testing of welds using phased arrays) – ASME BPV Code Sec V Article 4, 2013 Edition (Ultrasonic examination methods for welds) appendix III (Time of Flight Different (TOFD) technique) – ASME BPV Code Sec V Article 7, 2013 Edition (Magnetic Particle Standards) – ASME BPV Code Sec V Article 25, 2013 Edition, SE 709 (Magnetic Particle Standards)

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Field of Tested	Specific Test	Test Method
Civil field (cont.) 4. Welds products, parts, component and materials of Ferrous and Non-Ferrous metals, steels and alloys	– Liquid penetrant testing : method c – solvent removable <ul style="list-style-type: none"> ● Type 1 – Fluorescent penetrant : black light (UV-A) ● Type 2 – colour contrast penetrant : white light 	– ASME BPV Code Sec V Article 6, 2013 Edition , SE 165 (Liquid Penetrant Examination) – ASME BPV Code Sec V Article 24, 2013 Edition , SE 165 (Liquid Penetrant Examination)

Issue Date : 5 November B.E. 2557 (2014)

Signature

(Hathai Uthai)

Secretary-General

Thai Industry Standards Institute