



## PROFICIENCY TESTING PROGRAM

### MAGNETIC PARTICLE INSPECTION

#### Company Background

Proficiency Testing Australia (PTA) is one of Australia's largest and most experienced proficiency testing providers. We have a reputation for providing friendly, customer-focussed service using qualified, experienced staff and specialists.

PTA is able to service a very broad range of industries, and many of our clients come to use our services based on the recommendation of colleagues. PTA has offices in Sydney and Brisbane, so our services and support are readily accessible.

PTA is accredited as a Proficiency Testing Provider by International Accreditation New Zealand (IANZ). The accreditation covers the specific proficiency testing programs listed on the agreed scope of accreditation. The accreditation meets the requirements of ISO/IEC 17043:2010 *Conformity assessment - general requirements for proficiency testing*.

#### Aim of the Program

The purpose of this proficiency program is to evaluate the competency of laboratories to test the relevant specimen using magnetic flow induced by AC in accordance with AS 1171 - 1998 *Non-destructive testing - Magnetic particle testing of ferromagnetic products, components and structures*, and to report their results in accordance with AS 1171 - 1998, Section 5 and relevant clauses of AS 4037 - 1999 *Pressure equipment - Examination and testing*, Section 14 to record non-compliant discontinuities, including type, length, and location from datum point on an appropriate drawing.

#### Application of program to accreditation

Participation in proficiency testing programs would satisfy requirements of ISO/IEC 17025: 2005 *General requirements for competence of testing and calibration laboratories*.

## **Program Details**

Evaluation of the pipe test item is to be conducted in accordance with AS 4037 - 1999, Table 8.4 Class 1. Evaluation of the plate test item is to be conducted in accordance with AS 4037 - 1999, Table 8.3 Class 1. Evaluation of the tee test item is to be conducted in accordance with AS 4037 - 1999, Table 8.3 Class 1. Evaluation of the Y test item is to be conducted in accordance with AS 4037 - 1999, Table 8.4 Class 1 (pipe) or AS 4037 - 1999, Table 8.3 Class 1 (plate). Participants are requested to report an estimate of their measurement uncertainty (MU).

A final report, summarising the information submitted by all of the participants can be viewed on the PTA website at the conclusion of the program. A summary sheet is also sent to each individual participant at the conclusion of the program. This summary sheet details the performance of that laboratory or operator in the program.

## **Confidentiality**

Each participating laboratory is assigned a code number to allow for confidential treatment of results in all reports and publications produced by PTA. Please refer to the PTA website (<http://www.pta.asn.au/index.php/programs/confidentiality>) for more information.

## **Fees**

Please contact PTA for information on fees for this program.

## **Further Information**

For further information on the PTA Magnetic Particle Inspection Program contact [ptaenquiry@pta.asn.au](mailto:ptaenquiry@pta.asn.au)