

COMPANY CERTIFICATION

LEADING PURCHASERS AROUND AUSTRALIA ARE NOW specifying that suppliers of welding, manufacturing, fabrication, construction, repair and maintenance services, both local and international, should comply with the appropriate part of **ISO 3834:2005 Quality requirements for fusion welding of metallic materials and its complementary standard ISO 14731:2006 Welding coordination - Tasks and responsibilities.**

If your company supplies welded product or service to companies such as – Alcoa World Alumina Australia, CSBP, BP Refinery (Kwinana), Verve Energy, Tiwest, Worsley Alumina, Rio Tinto Coal, BP Refinery (Bulwer Island), Main Roads Queensland and Alcan Engineering - you are likely to have to show that you are progressing towards compliance before your tender will be accepted.

In the WTIA SMART Industry Groups for sectors such as mining, pressure equipment and road transport, discussions have centred on how to help the engineers/specifiers/purchasing staff who are ordering equipment to specify to the correct use of ISO 3834.

Free Expert Technology Tool

SMART Group member Alcoa World Alumina Australia has produced an internal Technical Support/Engineering Standard entitled:

AWASTD620 – ISO 3834 and ISO 14731 Quality Requirements for Equipment Welding (AWA) : Compliance to ISO 3834: 2005 “Quality Requirements for Fusion Welding of Metallic Materials” and ISO 14731: 2006 Welding Coordination – Tasks and Responsibilities

The company has agreed that WTIA can incorporate this standard as the new Part 3 of the WTIA Expert Technology Tool (ETT) TGN-3834 and that other companies can freely use it to generate their own documentation, thus potentially saving considerable industry time and cost, while promoting the use of the standard.

Key points in the standard include:

- Table 1 gives examples of selecting the appropriate level of ISO 3834 for different equipment groups.
- Suppliers need to have their documented quality system showing a clear direction for achieving compliance and certification to ISO 3834: 2005 by 1st August 2009.

- The Supplier shall hold certification to the IIW Manufacturers Certification Scheme (MCS) by 1st August 2010.
- Welding Inspection personnel should meet the requirements in Annex A of ISO 3834:2005, Part 5 and the WTIA Certification Programmes for Welding Inspection Personnel, which are linked to IIW qualifications, International Welding Inspector Basic (IWI B) and Standard (IW S) levels.
- The Supplier shall have a Responsible Welding Coordinator in accordance with ISO 14731:2006 with specific reference to Annex A of ISO 14731:2006 (recommended International Welding Engineer (IWE), Technologist (IWT) or Specialist (IWS)).

A new revision of the WTIA Expert Technology Tool (ETT) TGN-3834 is now available as a free download from the website www.wtia.com.au.

The revision includes:

- Updated step-by-step guidance for companies wishing to gain certification to ISO 3834 and the IIW MCS alone, or in conjunction with existing or new certification to ISO 9000. Assessment and audit services are now available in Australia through WTIA.
- The example specification from Alcoa World Alumina and guidelines on how to specify ISO 3834 to suppliers
- Latest information on qualification and certification, and how to appoint a Responsible Welding Coordinator (RWC) in a company.

Training for RWCs

ISO 3834 and its companion standard ISO 14731 call for the nomination of a Responsible Welding Coordinator (RWC) in the welding workplace. They recommend minimum qualifications for such personnel to be International Institute of Welding (IIW) International Welding Specialist (IWS) and for inspection personnel, IIW International Welding Inspector qualification.

The WTIA's OzWeld School of Welding Technology is providing training throughout Australia, both public courses and in-house, to help key welding coordination personnel e.g. designers, contractors, purchasers, specifiers, welding supervisors, welding and NDT inspectors, storemen and maintenance personnel as well as practical welding personnel attain the necessary qualifications and certifications to become a company's RWC.

Training Pathways are in place to ensure that the best possible recognition of prior learning is achieved, to allow a smooth transition from existing Australian qualifications to internationally recognised IIW qualifications such as International Welding Specialist.

Examinations run by the Australian IIW Authorised National Body (ANB) enable students meeting the requirements to simultaneously achieve international and Australian qualifications and certifications – a wonderful step up in your career.

For further details please see pages 30 and 33 of this journal.

Australian ANBCC

The WTIA was recently audited by the IIW to become an Authorised National Body for Company Certification (ANBCC) – see article page 33 and is now offering the IIW Manufacturer Certification Scheme (MCS) for ISO 3834 in Australia.

WTIA expert staff are available to assist companies to assess their current welding management systems, leading into a full audit by accredited Assessors to achieve certification. Initial telephone support is also available to companies and individuals over the welding hotline 1800 620 820. In New Zealand similar support is being offered by the NZ Welding Centre Tel: +64(9) 262 2885.

Monadelphous achieves certification

Monadelphous is a leading engineering group providing extensive engineering construction, maintenance and industrial services to the resources, energy and infrastructure sectors. The company operates from major offices located in Perth, Brisbane and Adelaide with local engineering support services provided through fully equipped regional operations located in key resource industry centres around Australia.

The Engineering Construction Division based in Perth has joined the rapidly-expanding group of Australian companies achieving certification to ISO 3834. The





The recently certified Mondelphous Engineering Construction Team from left, Phil Richardson, Senior Welding Coordinator and Chairman WTIA WA Division; David Christian, Senior Quality Coordinator; and Graham Shore, Quality Manager

division provides large scale, multi-disciplinary project management and construction services, including:

- Fabrication and installation of structural steel, tankage, mechanical and process equipment and piping
- Multi-disciplined construction packages including civil and electrical disciplines
- Plant commissioning
- Demolition and remediation works
- Turnkey design and construct services

First ISO 3834 Certification in Victoria

Elliott Engineering recently became the first Victorian company to achieve certification to ISO 3834 *Quality requirements for welding – Fusion welding of metallic materials* through the WTIA.

This 100% Australian owned and run engineering business has specialised in light to heavy sheet, plate and structural fabrication for around 100 years. It is a major supplier of manufactured steel products and sub-assemblies, undertaking profile cutting, brake pressing, plate and section rolling, turret punching, fabrication and various types of welding to customer specifications.

Industry sectors services include the mining, transport, construction, power generation, materials handling, marine, architectural and aviation industries, with projects varying in physical size and dollar value.

Assisting Australian industry

The services offered by WTIA give suppliers the opportunity to move towards compliance, with immediate benefits in both local and global competitiveness. Australian companies will benefit immensely through the provision of



Anthony Elliott, Managing Director of Elliott Engineering showing the company's ISO 3834 certificate in the base section of a recently constructed radar tower

such services, with increased ability to benchmark and prove their capabilities at national and international levels and thus not only compete for local project work against overseas competitors but also export those capabilities overseas.

The WTIA is committed to supporting industry in the provision of safe quality welded products and components for use in Australian plant and equipment and for the continual improvement in the supply of welded products. We work with industry to improve their competitiveness for overseas contracts and to keep work for local projects in Australia. This commitment generates benefits for both purchasers and their suppliers and for Australia as a whole.

To find out why and how your company can achieve certification to ISO 3834 contact WTIA now on email info@wtia.com.au or call 02 9748 4443

The Australian Institute for the Certification of Inspection Personnel (AICIP) continues to serve the needs of the Australian Pressure Equipment industry through the on-going certification of inspection personnel, and the promotion of quality plant maintenance.

Looking for an in-service inspector? You can search the public register on our website www.aicip.org.au to find the services you need from our growing list of certified personnel.

March 2008 Successful Examinees In-Service Inspector

NSW – Jude D. Fernando; Robert P. Edgar; Darren K. Ross; Daniel M. Piipari.

Mark T. Leahy, Vic;

WA – Martin Wolmarans; Alan J. Williams; Anthony K. Buhagiar; Stephen J. Waters; Benjamin P. Townend; Collin P. Maloney; Theo Socratous.

Qld – Terry K. Hewson; Shaun L. Langdon; Robert R. Hazard; Randall J. Cain; Christopher A. Green; Benjamin S. Hayden; Ross S. McKenzie; Kevin W. Creagh; Alfie J. Little; Dean M. Raphael; Adam J. Slean; Steven L. Bond

SA – Bruce W. McEwan.

NT – Steven A. Storey; Rudy Ronggani.

Senior In-Service Inspector

David Ireland, NSW

Examination dates 2008

In-Service Inspector (ISI) –
8 September 2008

Senior In-Service Inspector (SISI) –
9 September 2008

10 year Re-certification examinations and renewal for ISI and SISI –
8 September 2008

Inspectors who are due for 5- or 10-year renewal of their AICIP certification will be given prior notice by the AICIP Secretariat.

Latest developments

To date this year, AICIP has learnt of five failures at pressure testing resulting in death or injury of personnel. See the article on page 12 to learn more about avoiding such accidents. Back to Basics on page 13 this journal focuses on preparation prior to NDT and testing – and the subsequent potential savings for plant operators.

For further information on AICIP visit the website www.aicip.org.au or contact Anabel Cantero of the AICIP Secretariat Tel: 02 9748 4443 or email aicip@wtia.com.au