Utility Boiler and Environmental Division
Isando Fabrication Facility

john thompson

ACTOM

An ALSTOM technology partner

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Press Brake

Maximum safety rating

Guillotine

Fabrication Facility

The Fabrication facility is located in the industrial area of Isando, Johannesburg, and was established for the purpose of fabrication of boiler tube protection shields and general steel/ platework fabrication.

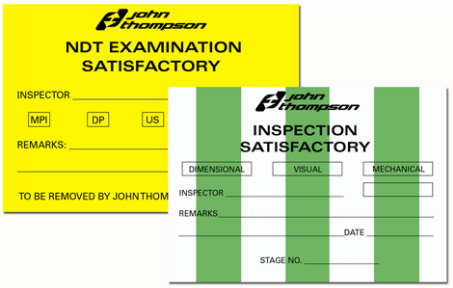
The Fabrication Facility consists of the following sections;

- Manufacturing
- Non Destructive Testing
- Welding Procedure Development
- Welder Training Centre

Manufacturing

Our manufacturing Facility was established on the 1st March 2011 and will be fully operational from 1st May 2011.

- Guillotine - Up to 3 m wide by 16 mm thick
- Press Brake - Up to 250 ton, knife length 3.2 m



Tube Shields

Boiler tube protection shields can be manufactured for tube outside dimensions of 38.0 to 76.0 mm by 3 m long in the following materials;

- Carbon Steel
- 304 & 310 Stainless Steel

Non Destructive Testing

Our Non Destructive Testing (NDT) Section provides a comprehensive service in the following disciplines;

- Radiography (RT)
- Ultrasonic Testing (UT)
- Magnetic Particle Inspection (MPI)
- Dye Penetrant Inspection (DPI)
- Hardness Testing (Vickers, Brinell)
- Positive Material Identification (PMI)
- Wall Thickness Testing
- Endoscope

All NDT procedures and specifications are Eskom approved

SHERQ

The AJT Isando site has been assessed and certified in accordance with the requirements of;

- ISO 9001
- NOSA (5 stars)

Welding

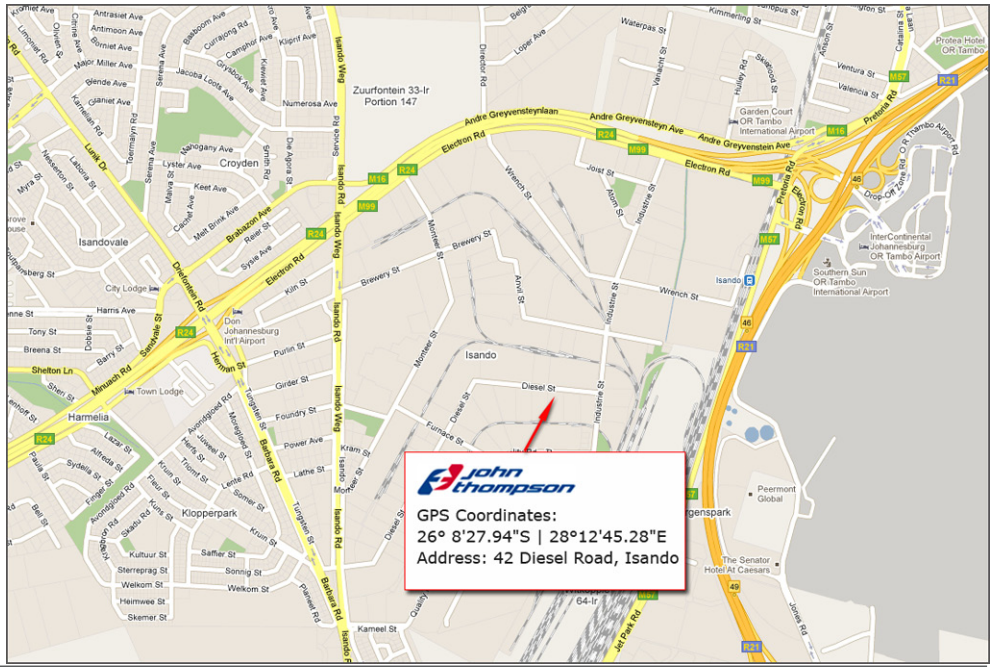
The welding section is tasked with;

- Procedure Development
- Welder training and certification
- High pressure pipe/tube Welding.
- Pre and Post Weld Heat Treatment (PWHT)

Using the following processes;

- Tungsten Inert Gas Welding (TIG)
- Shielded Metal Arc Welding (SMAW)
- Flux Core Arc Welding (FCAW)
- Gas Metal Arc Welding using Inert or Active gases (GMAW)

All welding procedure specifications (WPS) and procedure qualification records (PQR) conform to the requirements of BS EN 15614 and ASME IX. They have been reviewed and approved by both an Authorized Inspection Authority (AIA) and International Welding Engineer (IWE).



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