



# JOHN THOMPSON BOILER AND ENVIRONMENTAL

## Welding and Plant Maintenance Services

### Uncompromising Quality, Unwavering Performance

At John Thompson we value customer driven excellence which is evident in the high-quality pressure parts welding we provide. At the 2024 Eskom Welding Awards John Thompson was awarded best welding contractor with a weld failure rate of 2.41% completing over 65 000 site pressure part welds.



Your one-stop global energy solutions partner

# ACTOM

SINCE 1903

# The Boiler Maintenance Experts:

## Trust the Professionals at John Thompson

### Welding and Plant Maintenance Services

John Thompson performs welding and maintenance services at plants which include supercritical boilers with pressures up to 276 bar at superheated steam temperatures up to 569 °C to suit the turbine requirements for power islands ranging up to 800 MWe. This is achieved through the right human capital and strict implementation of our ISO 3834 Part 2 certification at the various sites we operate.

### Manufacturing Services

John Thompson provides tubing and piping for high pressure steam industry & hydrogen and derivative sectors via our global suppliers. Materials include carbon steels, high nickel content steels, X20 material and P91.

Our ISO 3834 accredited Steel Fabrication Facilities in Cape Town and Johannesburg, provide manufacture, refurbishment and repair services on pressure part and associated equipment. We manufacture a wide range of pressure part and associated components such as boiler wall membrane panels, burners, burner tube-nests, finned economisers, Low NOx burners, superheater

elements, tube-panels, tube shields, various headers and general items.

### South African engineering services

With our team of ECSA and IWE registered engineers we provide a range of engineering services to our clients to comply with SANS 347 and other local standards:

- WPQ & WPS Development
- Process Design
- Pressure Part and Structural design
- CFD
- Piping Flexibility Analysis
- 3D Modelling & Drawings
- Pressure Parts Failure Analysis
- Metallurgical Inspections

### Environmental Solutions

John Thompson are proud to be able to assist our clients to meet minimum emission standards as set out by their specific Atmospheric Emission Licenses. Solutions offered are Fabric Filter Plants, Flue Gas Desulphurization installation services, Scrubbers, Dust suppression, Silo Vent Filters, Low NOx burner manufacturing and installation services.

### Nuclear Industry

John Thompson has been added to the approved suppliers list of multiple international Nuclear Vendors for turn-key solutions of safety class 1 work. Our Integrated Management System allows us project management of subcontractors and suppliers. We have completed the welding works of the Steam Generator Replacement project, inclusive of NDT & heat treatment.

### Certifications

- BBBEE –Level 1 contractor
- ISO 3834: IIW Manufacturer Certification Scheme
- ISO 9001: 2015
- ISO 14001: 2015
- ISO 45001: 2018
- Lloyd's certificate of manufacture
- Fully comply to OHS Act and other safety requirements
- CIDB 9ME Qualification
- 3 Flames Member of SAGA
- Nuclear Safety Culture in compliance to RD0034 Level 1

