



JOHN THOMPSON UTILITIES

CONSTRUCTION, MAINTENANCE AND MANUFACTURING SERVICES

Uncompromising Quality, Unwavering Performance

At John Thompson, customer-driven excellence defines our work. This commitment is evident in the high-quality pressure-part welding and engineering solutions we deliver across critical industries.

Recognised for performance excellence at the 2025 Eskom Welding Awards, John Thompson earned Best Welding Contractor, achieving an exceptional 1.90% weld reject rate across 94 005 pressure butt welds.



Your one-stop global energy solutions partner

ACTOM

SINCE 1903

Trusted Partners in Engineering Solutions. Tailored to Your Needs.

Construction and 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, tailored to turbine requirements for power islands up to 800 MWe. These services are delivered by highly skilled technical personnel and through rigorous application of our ISO 3834 Part 2 certification, ensuring consistent quality, safety, and regulatory compliance across all operating sites.

John Thompson provides construction services to the utilities sector, covering cooling solutions, emission control plants, milling plants, low-NOx burners and pressure part installations.

Manufacturing Services

John Thompson supplies high-quality tubing and piping for the high-pressure steam industry through our global supplier network. Materials include carbon steel, high nickel steel, X20 and P91 steels.

Our ISO 3834 accredited Steel Fabrication Facilities provide manufacturing, refurbishment and repair services for pressure parts and associated equipment. We manufacture a wide range of pressure parts and associated components such as boiler wall membrane panels, burners, burner tube-nests, finned economisers, low NOx burners, superheater elements, tube-panels, tube shields, headers and general items.

Engineering Services

Supported by a team of ECSA-registered and IWE-certified engineers, John Thompson offers a full suite of engineering services in compliance with SANS 347 and other applicable local standards.

Our engineering capabilities include:

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

We deliver technically robust, compliant engineering solutions that support safe, efficient and reliable plant operation.

Environmental Solutions

John Thompson supports clients in meeting minimum emission standards as defined by their Atmospheric Emission Licences (AELs). Our environmental solutions are designed to improve operational compliance and plant performance.

- Fabric Filter Plants
- Scrubber Systems
- Dust Suppression Solutions
- Low NOx Burners

End-to-end construction and installation services are provided to ensure seamless execution from design through commissioning.

Nuclear Industry

John Thompson has been added to the approved suppliers list of multiple international nuclear vendors for turnkey safety class 1 solutions. Our Integrated Management System enables us to manage subcontractors and suppliers effectively. We have completed the welding works of the Steam Generator Replacement project, including NDT and 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 compliant with the OHS Act and other safety requirements
- CIDB 9ME Qualification
- 3 Flames Member of SAGA
- Nuclear Safety Culture in compliance with RD0034 Level 1



Contact us