



THYSSENKRUPP INDUSTRIAL SOLUTIONS COMBINES GLOBAL CAPABILITIES AND LOCAL KNOW-HOW FOR OPTIMUM SHUTDOWN MANAGEMENT

ThyssenKrupp Industrial Solutions South Africa combines global expertise and local know-how for the efficient, reliable, flexible and cost-effective management of industrial plant shutdowns and turnarounds.

The competencies of ThyssenKrupp Industrial Solutions as a global engineering company lie in its capability to deliver turnkey optimisation solutions for all phases in and across the entire



ThyssenKrupp Industrial Solutions' successful build of some 380 refineries globally highlights the company's experience in this field

life cycle of an industrial plant. This world-class package comprises project management skills, first-class system integration expertise, top quality engineering, state-of-the-art technology, specialist know-how and outstanding service. ThyssenKrupp Industrial Solutions' large international portfolio of over 2 000 built plants, including the design and construction of 150 industrial plants and 380 refineries, bears testament to the company's extensive experience in core plant technology.

Locally, ThyssenKrupp delivers successful brownfields project implementation with associated shutdown management. "With support from our global offices, limitless access to a vast international pool of competence and partnerships forged with external technical service providers, we are perfectly positioned to deliver best-in-class technologies and processes, irrespective of project size," notes ThyssenKrupp Industrial Solutions South Africa's Business Development and Sales General Manager, Vishal Harichund. "Our flexible engineering services range from on the ground day-to-day small and medium capital support, to complete plant optimisation support services including EPC and EPCM (engineering, procurement and construction management) for larger projects. One of our global capabilities that we can provide locally is the implementing of advanced 3D scanning of in situ plant and equipment on-site. We have been successfully providing detailed EPCM services and shutdown works for South Africa's Synfuels-producing giant for more than 20 years working in close cooperation with our colleagues from Australia, India and Germany. Some of these projects that we were involved with were nominated for or received Project of the Year Awards."

The primary objective during a shutdown is to optimise the plant's performance by returning it

to design standards or better, while keeping plant downtime to an absolute minimum to avoid production losses. Successful partnership with international ThyssenKrupp consultants has allowed up to a 20 % reduction in work scope and a 3 to 5 day reduction in shutdown period. We achieve this by partnering with clients to develop a competitive shutdown strategy. Seamless, efficient, accurate and



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reliable shutdown and turnaround management within budget and time-frame and in adherence to environmental compliance can only be achieved within a collaborative value-based framework. The appointment of a specialist company like ThyssenKrupp Industrial Solutions that has extensive project experience and is acquainted with best-in-field shutdown maintenance and turnaround technology and associated practical and pragmatic execution, gives the client peace of mind and allows them to focus on their core business.

ThyssenKrupp Industrial Solutions' shutdown and turnaround organisation and process framework comprises a number of distinct stages: scope and outcomes definition, preparation and planning, followed by implementation, completion and documentation and lastly close-out. All processes adhere to the DIN/EN ISO 9001 certified quality management system.

In a constant drive to add innovative new technologies to expand its portfolio and to keep up to date with the latest technologies, ThyssenKrupp Industrial Solutions makes substantial on-going investments in R&D. "We are currently enhancing our 2nd generation tagging system for recognition, identification, tracking and allocation of parts and equipment during shutdown with the development of a 3rd generation system," notes Harichund.

Africa is regarded as the continent of opportunity and with the drive for beneficiation of raw materials; Harichund sees excellent potential in supporting continuous process industries across the sub-Saharan region. ThyssenKrupp Industrial Solutions South Africa has recently been awarded the contract for the basic engineering of a tank terminal in Pumpuni, Ghana. "We are planning to increase our presence focused in specific target regions over the next few months. This strategy will position us closer to our clients so that we can successfully deliver our value-adding engineering solutions."

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INDUSTRIAL CLEANING REDUCES HEALTH HAZARDS AND EQUIPMENT DOWNTIME



Industrial cleaning

Power generation facilities produce large amounts of dust and flying ash that pose health hazards and interfere with the functioning of equipment, and effective industrial cleaning of the structures is therefore imperative. Leading rope access specialist Skyriders recently completed a five-month industrial cleaning project at a power plant in July this year.

Skyriders marketing manager Mike Zinn explains that the project required two, 18-man teams of highly-skilled and qualified rope access technicians, each working 12-hour shifts six days a week, in order to thoroughly clean difficult-to-reach areas inside the power station units.

"Many plants are huge and difficult to access. We specialise in cleaning these areas. For this project, we made use of the rope access equipment, standard brooms and large truck-mounted industrial vacuum units, that were supplied by Jetvac (Pty) Ltd" he reveals.

Skyriders places a strong emphasis on safety, and the company's industrial cleaning teams are compliant with internationally-recognised safety certification such as ISO 18001:2008, as well as the SANS 10086-3 standard for the installation, inspection and maintenance of equipment used in explosive atmospheres.

In addition to industrial cleaning, Skyriders offers a variety of rope access aided services such as non-destructive testing (NDT) and inspection, concrete inspection, maintenance and repairs, application of coating systems, work at height safety systems, welding, and confined space standby and rescue.

SKYRIDERS

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