



The **TURNER & COATES** 14^{OVER} YEARS OF EXCELLENCE AS STANDARD **Global Examiner**

Running the rule over domestic and international business since 1880!

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Committed to cleaner, greener power generation



Environmentally sustainable power generation is becoming ever more critical to our planet's future, and one of the core technologies employed to help minimise emissions from power plants worldwide is Selective Catalytic Reduction.

Selective Catalytic Reduction (SCR) is performed at high temperature, by injecting ammonia into the flue gas. Nitrogen dioxide (NO_x) is decomposed into dinitrogen (N₂) and water vapour, both of which are completely harmless to the environment.

Our proven experience in the power generation sector is wide-ranging, from the full inspection of hydro-electric systems, to implementing and certifying a range of quality management standards, including ISO 50001.



One of our key clients in the steam, power and energy industries is ESI, a trusted global services and project execution-based solutions provider, based in Kennesaw GA.

Our latest project for ESI has seen us perform a range of inspection, expediting and witness test visits to supplier and sub-contractor sites in Turkey, Mexico, Egypt, Canada, the

Czech Republic and Romania, as well as the US. These were to assist ESI in the delivery of their SCR projects to a Carbon Black Producer.

As part of this high-profile project, we also undertook detailed reviews of the SCR system's reactor, storage and ammonia tanks, skids, ductwork, and instruments, as well as the actual catalyst itself.

Our involvement with ESI - which is predominantly an engineering, procurement and construction company - began with us working alongside them on an assignment for another client.

They were impressed by our services and asked us to work with them direct, beginning in 2020 when we were contracted to assist ESI on their turbine project.

This included full inspection of the turbine rotor in the US, the casting and control panel in Brazil and the gearbox in Germany.

ESI, which also incorporates Project Path - a dedicated project support division, liked working with us on this project, and we have developed a solid and direct relationship ever since.

The scope of our site visits to help ESI deliver their SCR projects included confirmation that all order requirements had been relayed to suppliers and sub-contractors, were adequately planned and fully in line with specified delivery dates.

Turner & Coates engineers were also responsible for undertaking a complete design and engineering evaluation, as well as equipment, purchasing and procurement reviews to determine the status of required manuals, placed and received orders and any long lead-times and missed delivery dates requiring action.

Tasks also included within our remit on the ESI SCR project were a full manufacturing, assembly, paint and packaging review and inspection of all shipping arrangements, including specialist transportation due to the equipment's size.

"Our involvement in the SCR project concluded with our thorough witness testing and welding review services," sums up our MD, Neil Coulborn, "as well as one final dimensional, visual and physical inspection, and a routine check on QA documents."

"All in all, this project has gone very smoothly and to plan, and we look forward to working with ESI on future projects."

Contact us now on +44 (0)161 660 8656 to discover how we could help your business!

For total inspection, expediting and management systems implementation and auditing solutions, a FREE copy of our brochure or a no-obligation quote, call now on 0161 660 8656 (within UK) or +1 (404) 462 5729 (from North America)!*

