

Moody International In-Service Inspection Division

In-service inspection is defined as the provision of specialized inspection (often regulated by local authorities), and technical consultancy to operating facilities and equipment. Facilities include refineries, chemical processing plants, large mining refrigeration plants, operational boilers, storage tanks, process pipelines and auxiliary piping systems in such plants.

This service should be distinguished from the related turnaround inspections in which third party companies provide intensive inspection services, usually including non-destructive testing, while the refinery or processing plants are shut down for routine maintenance and statutory inspections.

Moody International offers in-service inspection services through its Technical Inspection Services (TIS) business unit. The acquisition of Schindler and Associates in 2006 expanded Moody's USA in-service inspection opportunities to include clients such as ConocoPhillips, 3M, BP USA, Marathon Refining, Kinder Morgan and others. Moody is an accredited (non-traditional) Authorized Inspection Agency (AIA) in the USA for statutory purposes. In South Africa, Moody continues to be strong with approximately 20% of operations there being related to in-service activities. Clients here include Sapref, Natref, Sasol Oil, Natcos and others.

Moody's current in-service inspection offerings include:

- Corrosion monitoring
- Remaining life/end of life calculations
- Inspection program auditing
- Fitness for service
- Inspection program implementation
- Asset Integrity Services (includes RBI)
- Corrosion/environmental audits of pressure equipment
- Routine code visual inspections of pressure vessels, pressure piping, atmospheric storage tanks, boilers and ancillary equipment to various codes, standards and local regulations
- In-service repair management, consulting, planning and certification
- Metallurgical and Failure Investigations
- Minimum Allowable Thickness Evaluations (MATs)
- Design Reviews and Inspection support for Re-rating and Modifications to equipment
- Specialised Non-Destructive Testing such as TOFD, Corrosion Mapping, IRIS and Eddy Current Testing in association with selected partners in the field



In support of Moody's in-service division the company employs highly skilled inspectors who are fully versed in the petrochemical, manufacturing, power generation and jurisdictional mechanical integrity inspection requirements. In the USA, these inspectors include those certified to API 510, API 570, API 653; National Board commissioned inspectors; ASNT TC 1A Level II certified inspectors in various disciplines, and AWS Certified Welding inspectors. In South Africa, inspectors are certified in the Competent Person Scheme in addition to any of the above certifications. Most work is undertaken by registered and qualified IPEs (Inspection of Pressurized Equipment) in South Africa.

Moody International is committed to a reliability-based approach to asset integrity - being Proactive not Reactive! If you have any questions about Moody's in-service inspection division, please contact Richard Dobson, TIS Business Unit Manager, at: r.dobson@moodyint.com.