



# SGS SUMMIT 2013

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## ASSET INTEGRITY MANAGEMENT

26 & 27 NOVEMBER 2013  
SHERATON HOTEL & TOWERS,  
KARACHI, PAKISTAN

HOSTED BY:  
SGS Pakistan

### STRATEGIC PARTNERS:



Pakistan  
Engineering  
Council (PEC)



Federation of  
Pakistan  
Chambers of  
Commerce &  
Industries

## AIMS OF THE SUMMIT

### WHY YOU SHOULD ATTEND SGS SUMMIT 2013:

- The event would give an excellent & unique opportunity to meet the technical experts, regulators and business leaders from diverse industry segments impacting the national economy and covering the major supply – ranging from exploration & production of oil & gas to its refining, storage and transportation through to the generation & distribution of power and manufacturing of chemicals and consumer goods.
- The event focuses on how to ensure safe, reliable and continued operations of all industrial assets which is the key to sustainability and continuity of businesses.
- The panel discussions on individual industrial segments conducted by the top management of national & international organization would highlight the challenges being faced, success stories, best practices, synergies and way forward as an individual business and collectively as nation.
- The participation of regulators and policy makers along with the private and government sector organization would help in rationalizing the policies matters and taking proactive measures for the benefit of national assets.

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# SGS



## ATTENDEE PROFILE

**THE FIRST OF ITS KIND SUMMIT ADDRESSING THE CRUCIAL SUBJECT OF INDUSTRIAL ASSETS & THEIR LONGEVITY WILL BE A COLLECTION OF INDUSTRY LEADERS AND POLICY MAKERS UNDER ONE ROOF WITH LEADING INTERNATIONAL SPEAKERS IN PARTICIPATION. DELEGATES TO INCLUDE:**

- Regulatory Authorities
- Government owned large sized organizations
- Insurance Industry Experts
- Bank Industry
- Chairman
- Managing Directors
- Chief Executive Officers
- Chief Operating Officers
- Chief Technical Officers
- General Managers
- Head of Departments
  - Asset Integrity
  - Safety & maintenance
  - Corrosion
  - Facility Inspection
- Risk
- Technical
- Inspection
- Material
- Optimization

## SPEAKERS & PANELLISTS

**SENIOR MANAGEMENT OF FOLLOWING ORGANIZATIONS IS EXPECTED TO PARTICIPATE AS SPEAKERS & PANELLISTS.**

- OGDCL
- PPL
- MOL
- UEPL
- ENI
- MPCL
- Pakistan Refinery
- National Refinery
- Attock Refinery
- Pak- Arab Refinery
- Ministry of Petroleum
- Shell
- PSO
- Hascol
- Chevron
- BYCO
- Kot Addu Power
- Tapal Energy
- Rousch Power
- ABB
- KESC
- UCH Power
- AES Lalpir
- General Electric
- Siemens
- Descon
- SNGPL
- SSGC
- ISGC
- CNG Association
- Fauji Oil Terminal
- Engro Vopak Terminal
- F&B Bulk Storage
- BHP
- OMV
- ENI
- PEPCA
- OGRA
- Engro Polymer
- BASF
- P&G
- Unilever
- Linde
- Engro Foods
- Arif Habib Group
- Sitara Chemical
- Gatron Industries
- Lotte Pakistan
- Nestle
- Gul Ahmed
- Nishat Group

## ABOUT – THE EVENT

SGS Pakistan, in partnership with Pakistan Engineering Council (PEC) & Federation of Pakistan Chambers of Commerce (FPCCI) is hosting the first ever international summit focused on fostering information exchange on plant integrity & extending lifecycle of industrial assets.

The summit will feature presentations, case studies, expert panel discussions by distinguished international industry experts in diverse segments including Oil & Gas up-stream & down-stream, Energy Generation & Transmission, Chemical & Process Plants, Consumer Goods manufacturing.

Various issues related to specific category of plants equipment like tanks, pressure vessels, pipe-lines, piping and rotating equipment would be covered in different sessions. The event will also feature an exhibition spaces which will highlight the latest developments in solutions and services.

## ABOUT – SGS

SGS in Pakistan is assisting diverse business sectors for the last 61 years in the area of mitigating the risks.

SGS Industrial Services is instrumental in transforming the culture of managing the industrial assets in a proactive manner to ensure the maximum availability, reliability with minimum cost. Over the years SGS Pakistan has routinely organized a host of technical events on affective management of assets throughout its complete life cycle beginning with the design, construction, commissioning, operation through to the decommissioning. A cross section of these industry representatives have attended these knowledge sharing sessions and need has been felt to enlarge such forum to an international level engaging the experts from across the world.

SGS is the world's leading inspection, verification, testing and certification company. We are recognized as the global benchmark for quality and integrity. With more than 75,000 employees, we operate a network of over 1,500 offices and laboratories around the world. SGS Pakistan was established in 1952 and is amongst the first Swiss companies set up in a newly formed country. SGS Pakistan comprises of a dynamic team of over 700 specialists in related disciplines of quality verification, supported by state-of-the-art testing laboratories and advanced technology.

With the ageing of *industrial assets* there is an increased need to manage them in a proactive manner ensuring continued utilization with maximum reliability, safety and with minimum planned and unplanned stoppages and failures. All stakeholders, business & technical and regulatory authorities have the responsibility to manage *industrial assets* in a profitable and safe manner, ensuring extended lifecycles. The SGS Summit will be instrumental in addressing the knowledge gaps and kick starting a productive debate leading to a dialogue on this vital subject.



# SUMMIT AGENDA

## TECHNICAL SESSIONS: PAPERS PRESENTATIONS & PANEL DISCUSSIONS

### AGENDA DAY ONE 9:00 AM - 5:00 PM

#### SESSION 1: ASSET INTEGRITY MANAGEMENT

- Achieving excellence in life cycle asset management – an integrated approach
- Challenges and best practices for extending asset life cycle
- Enhancing safety and reliability throughout the asset life cycle
- Effective integration of RBI & FFS from equipment cradle to grave
- AIM implementation- The challenges versus the benefits
- Asset management and Operational Excellence should we pursue
- Perfect Process Safety and Integrity
- Process safety improvement – the road to sustainability

#### SESSION 2: POWER PLANT

- Evaluation of plant performance and condition
- Reducing operational damage, costs of operations and maintenance
- Minimizing outages and lost capacity
- Power plant upgrading and life extension investment
- Gas Turbine performance optimization and reliability
- Turbine up-rating and life extension program
- Improving Efficiency at Mid-Life operation
- Executing preventive inspection, repair and upgrading

#### SESSION 3: INSPECTION, OIL & GAS PIPELINES, TANKS, TERMINALS, DISTRIBUTION

- History and future of pipeline inspections
- Improving Pipeline Safety with a comprehensive approach to corrosion management
- Innovative inspection and monitoring methods for non-piggable pipelines
- Tanks & Terminals – best practices & optimization

### AGENDA DAY TWO 9:00 AM - 5:00 PM

#### SESSION 1: OIL, GAS EXPLORATION, PRODUCTION AND OIL REFINERIES

- Corrosion inspection and monitoring techniques to prevent costly unplanned shutdowns
- Getting consistent on how to assess corrosion threats to provide rigorous understanding of pressure equipment
- Risk based inspection as a general tool to reduce risk and focusing onto critical areas
- Remnant life assessment study in utilities to prevent boilers failure and enhancing their operability
- Practical consideration of corrosion management in ageing facilities in the oil and gas industry
- Implementing Preventive Maintenance Technologies to reduce costly 'one-off' corrective actions
- The impact of NDE on RBI inspection effectiveness

#### SESSION 2: INSPECTION, PREVENTIVE MAINTENANCE AND TURNAROUND. FERTILIZERS, CHEMICAL & PROCESS PLANTS

- HIC-SSC detection, survey execution and mitigation guidelines
- Corrosion under insulation – outlining detection and management techniques
- Roles of key components which prolong the lifecycle of ageing assets: corrosion, inspection and maintenance
- Recent development in the application of NDT for improved integrity management
- Root cause failure analysis to prevent re-occurrence
- Planning & preparing for an efficient Turnaround
- A best in class approach to fixed equipment turnaround management

#### SESSION 3: CONCLUSION AND RECOMMENDATION FOR WAY FORWARD

# PRE-EVENT WORKSHOPS

**25TH NOVEMBER**

**SHERATON HOTEL & TOWERS, KARACHI**

## **APPLICATION OF LRUT FOR ASSESSMENT OF PIPING / PIPELINE INTEGRITY**

- Pipeline / Piping corrosion & detection problem
- Conventional techniques & their limitations
- Advancement in Pipeline / piping inspection techniques
- LRUT application and advantages
  1. Screening of insulated pipe for external and internal corrosion with out removal of insulation.
  2. Screening of inaccessible areas such as cased road crossings.
  3. Screening of river crossing pipe lines and jetty lines.
  4. Screening of pipeline risers to check soil to air interface.
  5. Screening of buried pipeline.
- LRUT Live demonstration

## **TOFD " A RELIABLE AND RAPID WELD SCANNING TECHNIQUE IN LIEU OF RT"**

- Why weld inspections
- Limitation of conventional method RT
- Introduction about ToFD
- Technical Comparison TOFD and RT:
- Costs considerations of RT and TOFD:
- TOFD - Time Of Flight Diffraction Technique as alternative to Radiography (Case Study)
- TOFD Live demonstration



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WHEN YOU NEED TO BE SURE

