

Preliminary Conference program FE Summit China
Tuesday, 20 September

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| | Plenary Session Chair: Sinopec/Bill Ross (Chair and Co-Chair) |
| 8:50 | Opening |
| 9:00 | Regulations on VOCs control in China –Jinshan Cui, Ministry of Environmental Protection |
| 9:30 | Sinopec practice on LDAR – Shanjun Mou, SINOPEC Qing Dao Research Institute of Safety Engineering |
| 10:00 | China’s experience and lessons learned –Dr. Edward Quick and Bronson Pate, Sage Environmental Consulting |
| 10:30 | Coffee break & Expo Visit |
| 11:00 | China experience and ideas, case study—Bart Wauterickx, The Sniffers |
| 11:30 | History of Fugitive Emission Standards and Laboratory Testing of Valves and Seals –Matt Wasielewski, Yarmouth Research and Technology, LLC |
| 12:30 | Lunch break & Expo Visit |
| 13:30 | <p>Introduction and implementation of the California & Kazakhstan best practices –Bill Ross, Chevron Texaco</p> <p>Upgrading existing plant valves to new FE requirements & implementation of a “Flange Management Program”</p> <p>Understanding LDAR or Enhanced LDAR basics from an End User perspective – key elements, process and importance of “repairs that last”</p> <ul style="list-style-type: none"> • What are VOC’s and EPA21 basis. • Define FE limits in ppm (100 / 250 / 500) • Monitoring frequency and alternative monitoring frequency • Time limits to stop leaks (5 days for first attempt) • Delay of Repairs • Training / QA QC • Self auditing using 3rd party (comparative monitoring) and corrective action plan • Valve Replacement and Improvement Program (Low-E Valves & Low-E Packing) • Commercial Unavailability |
| | <p>Monitoring Methods; OVAs (FID / PID), IR Cameras</p> <ul style="list-style-type: none"> • Understanding the pro’s and con’s of IR cameras / flame ionization detectors / photoionization detectors • Measuring 0ppm, 100ppm, 250ppm, 500ppm, 10,000ppm and beyond. • Effects of wind, valve or connector access, heat shimmers |
| | <p>Record keeping & Reporting</p> <ul style="list-style-type: none"> • All documents, audit reports • Submittal of compliance status reports |

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| | <p>Technology & the Future of ELP (Enhanced LDAR Program)</p> <ul style="list-style-type: none"> • Using IR Camera for scanning process units by zones and by process systems • Use FID to quantify leaks after detection or consider the future in IR Camera software • Do we need to tag every valve and connector or do we just tag leakers? What are the options? Manual, bar code, hand helds? • Understand EPA 21 analysis options and compare to IR camera software capabilities (Do we need FID?) • Utilize the facility's own TLR (temporary leak repair) program for stopping leaks, tracking, monitoring, and permanently repairing at planned maintenance turnarounds |
| 15:00 | Coffee break & Expo visit |
| 15:30 | <p>Actual FE information for existing old plants to current day</p> <ul style="list-style-type: none"> • Difference in process plants • What is the leakage distribution per equipment type • What is leakage distribution for manual, actuated valves, control valves? • Any generic lessons on valve brands, packing types in the field? • Where to look, light ends, high temperature, temperature cycling, mechanical cycling? |
| | <p>The path to select technical solutions for existing plant valves. What has failed, what has worked? What is cost effective?</p> <ul style="list-style-type: none"> • Re-tightening? ...how successful?...how many times can you re-tighten existing valves? • Leak sealant (drill, tap & inject) option; Does it work? • Valve re-conditioning option? Low-E Packing • Repairs in situ, for example at unplanned shut downs or when isolatable on the run? • Packing selection process and implementation options. Involvement of plant operators, sealing manufacturer? • Gasket selection process and implementation options for plant maintenance work and planned turnarounds |
| | <p>New valve FE requirements, Low-E valves; how & when should they be addressed? Why consider applying Low-E valves to all services?</p> <ul style="list-style-type: none"> • Purchasing & installing Low-E valves for all services • Retightening packing gland bolts on new valves or repacked valves after placing back into service; just once and for which service conditions? |
| | The need for Flange & Bolting Management? Applying an established torque value for every flange connection. |
| 16:30 | <i>Demonstration of FE Measuring and / or replacing a packing.</i> |

Wednesday, 21 September

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| | Plenary Session Chair: Barrie Kirkman, Consultant | |
| 9:00 | Survey on Domestic and foreign LDAR environment management system – Huang Haoyun., Tianjin Environmental Protection Bureau, | |
| 9:30 | LDAR regulations/practise in Shanghai –Gangfeng Zhang, Shanghai Academy of Environmental Science | |
| 10:00 | China LDAR data from end users | |
| 10:30 | Tea/coffee break & Expo Visit | |
| | LDAR Session | Technical Session Chair: Gobind Khiani, Fluor |
| 11:00 | LDAR implement in China and case studies – Pengyuan Xu, SGS China | Current Industry Codes on Fugitive Emissions in Valves - Gobind Khiani, Fluor |
| 11:30 | Australia / Middle East - Consideration for the design, implementation and operation of leak risk management program. (LDAR) - Silvio Stojic, Atemeco of Klinger Group | What makes a good FE packing for new/used valves? Teadit |
| 12:00 | UK LDAR, Capturing value and reducing loss - Matt Sparshott, Captiva Sealing. | Fugitive Emission Valve Practice - Neway Valve |
| 12:30 | Lunch break & Expo Visit | |
| | LDAR Session | Technical Session |
| 13:30 | LDAR Cost Analysis –Barrie Kirkman, Consultant | Flange bolting & gasket management & ASME PCC-1 Bill Ross, Chevron Texaco |
| 14:00 | LDAR detection and emissions accounting – Zuogang Zhu, Beijing labor protection institute | Further discussions on packings. |
| 14.30 | Open Panel session 1 Best New Valve/ Testing/ Seals practices for future LDAR in China | |
| 15:00 | Coffee break & Expo visit | |
| 15.30 | Open Panel session 2 with LDAR Companies for questions from the floor; Best LDAR practice for future China | |
| 16:15 | Closing Ceremony | |