



*Two Day Workshop
On
"Maintenance and Reliability of Equipment-a Tool for Enhancing Safety"
at Indore on 15-16th June, 2017*

Two day workshop on "Captioned Topic" was organized by OISD at Indore during 15-16th June, 2017 wherein around 100 executives (HSE/TAS/M&I role holders) from OMCs were participated.

The workshop was inaugurated by ED, OISD by lighting the lamp in presence of Director, MO, OISD & senior level executives from OMCs followed by Safety pledge by Director-MO.



ED, OISD in his keynote address explained the importance of inbuilt Design safety by quoting two specific examples, one being the grip of tyre which provides safety for the travellers and another one is the rear reflector on bicycle which prevents accident on road. He cited the recent Budge Budge incident; a case of complete disregard to SOP.



Welcome address by ED, OISD



DELEGATES CAREFULLY GOING THROUGH THE PRESENTATION ON DESIGN & INSTALLATION OF TANK LEVEL GAUGE

Also explained that with implementation of MBLCR recommendations at POL locations, the complexity of operations is enhanced manifold and overall safety system of the locations is strengthened w.r.t in built design, real time data monitoring, detection & early alarm system and up-gradation of fire fighting system. He also said that though MBLR implementation is 100 % but w.r.t its functionality, it has been reported 80%. He concluded his address saying that "Safety is not a choice but an integral part of our operations".

The faculty was chosen from leading equipment manufacturers and PSU experts such as M/s Emerson Process Protection, M/s Virgo Valves & Controls Pvt. Ltd, M/s Rotork, M/s Polixel Security Systems Pvt. Ltd, M/s Ingersoll Rand and M/s Risknowlogy Solution and Subject Matter Experts from Oil PSUs.

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Presentation of all faculty members about their relevant topic was excellent as per the feedback received from participants.

- ✓ Tank level instruments & system overfill Management.
- ✓ Operation & Maintenance of Remote operated shut off valve-Pneumatic & Electro hydraulic type.
- ✓ Importance & precautions of Fire suppression system in control room.
- ✓ Design criteria and advantage of Automatic actuated Rim Seal Fire Detection and extinguishing system.
- ✓ Importance of installation of Hydro Carbon Detectors; active tool for early warning.
- ✓ Case study: issues related to MBLR equipment
- ✓ Operation and Maintenance of HVLRS.
- ✓ Basic Functional safety & SIL verification/validation.

Mr. John of M/s Emerson, Sweden, explained the importance of tank level instruments (radar gauge) and Overfill Protection System (vibrating fork). Right choice of instrument with latest technology and upkeep will prevent loss of containment and avoid incident like Bounce field fire incidents.



Mr. Sunil of M/s Virgo Valves & Control Pvt. Ltd. and Mr. Nirman of M/s Rotork gave presentation on O&M of Remote Operated shut off valves (ROSOV -Pneumatic type and electro hydraulic type). Explained the explicit design and use which provides fire safe feature. On air pressure (4 to 10 bar) valves remains open with compressed spring action and with no air pressure valve, auto closes with no spring action.

To make it more live, class room training was allied with practical demonstration, half day location visit was also organized at BPCL MRT, Indore where live demonstration on proper operability of various equipment was demonstrated by all OEMs.



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On the 2nd day, M/s Polixel Security Systems Pvt. Ltd gave a presentation on Fire suppression system in control room and explosion proof Cameras. They explained comparative advantage of use of clean agent over traditional inert gas and restriction on use of inert gas. Use of clean agent is also environment friendly; primary requirement of NFPA 2001. The importance of use of explosion proof cameras was also explained.



MR. SANJIV KUMAR, LOCATION IN-CHARGE JABALPUR IRD, HPCL EXPLAINING AUTOMATIC ACTUATED RIMSAL FIRE DETECTION AND EXTINGUISHING SYSTEM

T V KRISHNA RAO, Chief Manager M&I, HPCL SCZ presenting : Case Study : Issues related to MBLR Equipments

Mr. Sanjeev Raina, GM (Ops) RHQ IIC BPCL presenting Design , Operation & Maintenance of High Volume Long Range Monitor Incl various shortcomings observed during operation of HVLR at location along with corrective measure.

Sri Abhoy Shankar of BPCL gave an in depth presentation on HCD. He explained in details reason behind installation of HCD at POL locations, benefit of installation, location to cover by HCD, principle of detection/functioning of Open path detectors and point type detectors, alarm setting (LEL %) & annunciation etc.

Sri T.V.K. Rao of HPCL presented issues related to MBLR equipment. He presented about practical issues which is faced about malfunctioning of equipment. He gave few good tips like cable entry to electrical JB from bottom instead of top which prevents water ingress in JB and damages circuits.

M/s Sanjeev Raina of BPCL made a presentation on requirement of HVLRs and positioning for effective utilization. He said that HVLR can move upward with 90 deg, down 60 deg and horizontal 340 deg. On a specific question about targeting throw into the tanks, he explained that HVLR jet should be targeted at the middle of burning tank for effective use. He also explained right positioning of HVLR to achieve the above target by way of providing raised platform.

M/s Risknowlogy Solution Pvt. Ltd explained that specific level of SIL certified equipment alone is not sufficient, entire loop also needs to be SIL certified of that scale. He said that any changes in the entire loop will change the validity of loop which needs to be recertified.



Group Photo

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Participant's active interaction with faculty proved participants agility to learn and made the session/workshop splendid success. This programme received excellent feedback from participants and expressed willingness to attend more such similar programmes in future. Evaluation of participant's feedback revealed that 80 % of the participants rated the programme as "Outstanding". Addl. Director MO & Joint Director MO-OISD updated delegates about recent development in OISD/OMCs.



Mr. K.C.Nandi, Addl. Director (MO)-POL explaining the issues related to MBLC equipments.



Mr. U.S.Roy, Joint Director (MO)-POL, OISD explaining the current status of implementation of critical equipments related to MBLC INCL. THE OBSERVATIONS MADE DURING PERFORMANCE EVALUATION, ALSO SHARED ABOUT LOCATIONS WHERE FUNCTIONALITY FOUND 100% OK. BPCL ONGOLE, IOCL VGV

File photo of session interaction



Analysis of Feedback



Director (MO)-POL is addressing the query raised by delegates during feedback session.



ED-OISD is handing over certificate to Smt R. Sujatha Designated Terminal Manager, Trichy Terminal, IOCL.

ED, OISD and Director, MO replied to few queries raised by participants thru' feedback session. Certificates were awarded to all delegates.

At the end, Director-MO OISD delivered the formal vote of thanks and express gratitude to OIL PSUs officers who extended whole hearted support to make it a grand success at Indore.



DIRECTOR (MO)-OISD is giving vote of tanks to OMCs, all associates for all co-operation



Joint Director (MO)-POL is concluding 2 days workshop on 16.6.17

Joint Director -MO-POL OISD concluded the programme.

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