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Mr. Ajai Nigam takes over as Chief Controller of Explosives, PESO



Mr. Ajai Nigam has taken over as the Chief Controller of Explosives, Petroleum and Explosives Safety Organization (PESO), Nagpur. Mr. Nigam has had distinguished service in various capacities in the Department of Explosives.

A post-graduate in Chemical engineering and a gold medalist, Mr. Nigam joined the Department of Explosives in 1975. He has served in Chennai, Agra, Nagpur, Bhopal and Kolkata. SHV Energy extends its heartiest congratulations to Mr. Ajai Nigam on his new assignment.

108 Emergency Response Service India's 911

Emergency Management and Research Institute (EMRI) is one among the world's best emergency management institute. A non-profit organization, EMRI provides the most comprehensive and integrated services for any emergency be it medical, police and fire. EMRI's vision is:

- ❖ To Save One Million Lives a year by 2010 Nationally
- ❖ To establish EMRI as a Premier Research and Training Institute in Emergency Management

Established in Hyderabad, Andhra Pradesh in April 2005, EMRI launched its 108 Emergency Response Service in Hyderabad on 15th August, 2005. Currently, 108 emergency service is operational in Andhra Pradesh, Gujarat and Uttarakhand. Work is progressing on a fast pace and the number 108 could soon become India's version of 911; the number that US citizens dial for emergency services

108 Emergency Response Service is 24X7 emergency service for medical, police and fire emergencies. Any individual in any emergency can call 108 for assistance and the appropriate help, ambulance, police and fire brigade, would reach him/her in minutes. When 108 is dialed to report an emergency, the call lands at the desk of the 'Communication Officer' (call taker), who gathers the necessary information on the emergency, like location, type and nature of emergency, number of victims affected etc. Once the information is collected it is sent to the 'Dispatch Officer' who dispatches the necessary help be it an ambulance, police and fire brigade. In case of medical emergency, once the ambulance reaches the site, the Emergency Medical Technician administers the appropriate pre-hospital care under the online

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PESO Team Visits Murbad Filling Plant

'In addition to OISD standards, LPG bottling plants are governed by various statutory rules including SMPV and Gas Cylinder rules. Whilst day to day operations are undertaken as per license conditions, periodic tests are witnessed and certificates issued as per SMPV rules 18, 19, 33, & 44 (2) by a "Competent person" who is authorised by the Department of Explosives to ensure compliance. In this situation, smooth

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Inauguration of Super Gas Auto Gas Station at Bavla

Spotlight on Safety!

It is never too soon or late to start thinking about safety; be it personal, plant, environmental, fire or transportation safety. The Safety Week in March this year was a good opportunity to join hands with our partners and reinforce Safety. Many programs and competitions were held both at plants and in market place. Children too played a big role and the safety painting competition got a huge response from all the kids.



Our commitment to improve safety on the road is unstinted. As a step towards vehicular safety, over 180 numbers of Super Gas tankers will be provided with 3M conspicuity reflective tapes that greatly improve visibility during the night and help in avoiding accidents.

The Emergency Response Service initiated by the Emergency Management and Research Institute in Andhra Pradesh has revolutionized the delivery of emergency medical services. The project is the brainchild of B Ramalinga Raju, Founder and Chairman of Satyam Computers. We salute the EMRI Team in taking forward such a noble cause.

Cdr. A S Oberoi

108 Emergency Response Service

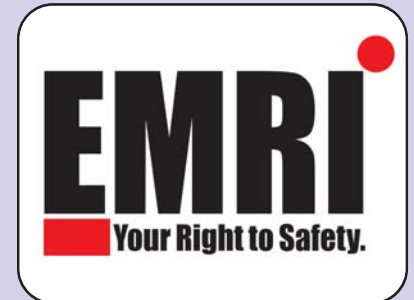
medical direction given to him by the Emergency Response Centre Physician. The injured/victim is stabilized while they are on the way to the nearest hospital.

108 emergency service is an absolutely free service for any 'serious people emergencies'.



108 is a toll-free number which is accessible from landline as well as from mobile phones. In case of medical emergencies, the ambulance service and the medication provided in the ambulance is free of cost to every citizen.

Since its launch, the 108 Emergency Response Service today extends the service with 652 ambulances and over 4008 associates in the state of Andhra Pradesh, Gujarat and Uttarakhand. Till date, the service has helped save over 25,000 lives and attended to about 6,00,000 emergencies. With expansion of fleet & services set to spread across more states in 2008, EMRI will have more than 1000 ambulances covering the population in excess of 200 million by December 2008. EMRI also signed an MOU with the Government of Madhya Pradesh to start the service in the State.



Any one can call 108 a) to save a life b) To report a crime a progress c) To report a fire accidents / mishaps d) Any time and emergency response is required for medical, law enforcement and fire.

Mr. MSR Swaroop
RM, Hyderabad

Thermax & Super Gas tie-up on conversion of Boilers to LPG

Water and steam are typically used as heat carriers in heating systems. Boiler is an apparatus used to convert water into vapor form. At high temperatures, water and steam however require correspondingly higher operating pressures and in such cases Thermic Fluid Heaters (TFH) is a good option.

Boilers & TFH are used in a variety of industries. Industrial capital goods manufacturing, pharmaceutical, electrical, automobile parts manufacturing, powder coating, textiles, paints & dyes, steel, packaging, beverages, hotels & restaurants etc are amongst a few of them.

Together with cost benefits and its easy availability, LPG can now be used as preferred primary energy source for Boilers & TFH. A few

advantages of LPG over other Liquid fuels are summarized as below:

- ❖ Substantial savings in fuel consumption (HSD & LDO in few cases)
- ❖ Cleaner Fuel
- ❖ Cleaner burning and soot-free combustion
- ❖ Low maintenance
- ❖ Lower corrosion related effects



High Pressure Gas Train

Thermax India Limited (TIL) is a market leader in the Boiler/TFH segment with customer base exceeding 20,000 installations. Thermax's product range is also very wide and can be leveraged to deliver integrated solutions encompassing steam, power, cooling and environment management.

Thermax and Super Gas have joined hands by signing of MOU to offer "Total Energy Efficient and Sustainable Environment friendly solutions with LPG as a preferred fuel on existing Liquid fired boilers & heaters up to 10 Lakhs Kcal/Hr.

Under this arrangement, TIL is providing their combustion expertise in conversion of existing units to LPG. TIL has designed conversion kits for different

- ❖ Very high efficiency with direct firing system
- ❖ Sulphur - free emissions
- ❖ Easy and better availability
- ❖ Complete and efficient combustion
- ❖ Low system/equipment downtime
- ❖ Low power costs as no pumping required
- ❖ Less maintenance as no moving components in LPG units so no wear and tear of components
- ❖ Spillage free fuel handling, storage & transport

The above benefits have allowed industry to shift towards gaseous fuel boilers and TFHs. Existing liquid fuelled Boilers / TFHs users can also be easily converted into the LPG fuelled ones



Jet Gas burners (for Coil boilers)



Vertical Coil Boiler

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Earthing in Electrical Systems



Why earthing is required? It is well known that most electrical systems need to be earthed and this practice probably started in the very first days of electrical experiments. A reliable earthing system is vital for safety in the event of a fault. It may come into use once or

never in a life time, but the consequences can be disastrous if proper earthing is not done.

The lack of adequate earthing is not very uncommon and people seem to almost accept an occasional electric shock be it in hot water showers with electric heaters, washing machines, electric appliances, operating factory equipment etc. Besides risk to humans, sensitive computers and electronics devices fail to operate properly and/or sustain damage resulting in loss of valuable productivity time and expensive repairs.

A simple grounding will solve their problem. The earthing system has low earth resistance and is therefore virtually at earth potential. Various points to be earthed are connected via a low resistance metallic conductor to the

station earthing system. The earthing system has under ground vertical earth electrodes of steel pipes, horizontal earthing mesh of steel rods, all welded at joints to form the station earth. Various points to be earthed are connected to station earth by means of earthing conductors, risers etc. Total resistance of the station must be below 3 ohms for low voltage domestic system, below 0.5 ohms for medium voltage systems and below 0.1 ohms for systems above 220KV.

Importance Of Double Earthing

Double earthing is essential for heavy power equipment and systems installed in hazardous areas like our LPG Plants and installations. The Earth connections should be to two entirely independent Earth electrodes. This requirement is stipulated in Oil Industry Safety Guidelines and plays an important role as by providing two earthing connections we are ensuring safety in the event failure of one earth or in case resistance value increases. Providing double earthing in parallel to electrical system also decreases the resistance value as compared to single earthing and further increases the leakage current carrying capacity of the earthing

Ratnakar Mishra
Delhi

Safety Training - Need to Step-up!

Routine day to day work can reduce alertness and a lax attitude can replace the caution that existed when the job was new and interesting. Most jobs in our industry are repetitive in nature and get done with little conscious thought. Without some periodic reawakening to the ever-present hazards, lethargy deepens and the odds of an accident occurring increase. We may not always recognize the importance of safety training or think of it as unnecessary because we've "been doing it for years." But an important benefit of periodic safety training is the reminder that a danger can exist. No one is immune to accidents unless adequate steps are taken regularly.

Safety trainings should be organized such that the training material is well understood and the session is interactive. Insistence on questions from trainees after a session on what did or didn't sink in will help one know if there are any gaps. If the safety training information is not understood well enough to use it on the job, the training has not been effective. An immediate feedback will enable filling up of any gaps.

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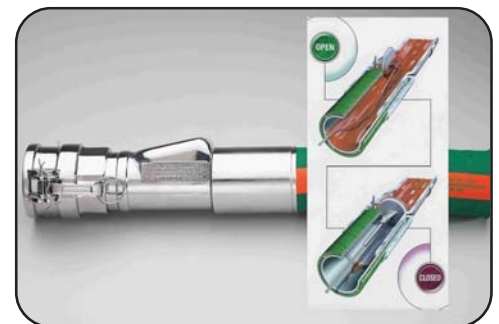
Smart Hose - Technology for Safe LPG Transfer



The Smart-Hose™ technology is a proven hose technology, that is designed to counteract the

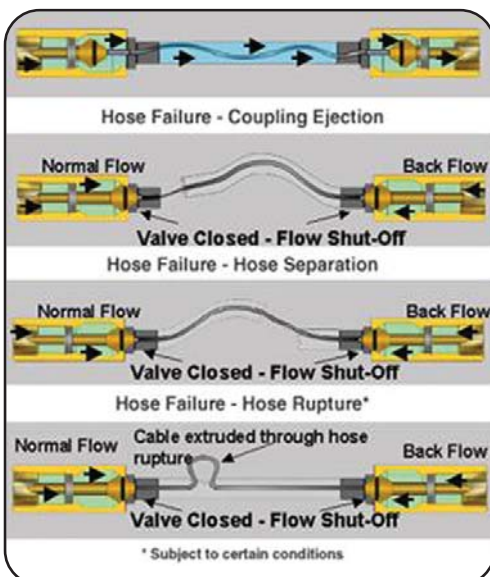
hazardous effect of hose rupture or failure during fluid or gaseous transfer operations. Over 325,000 hoses using this technology are in service worldwide. All Smart-Hose™ designs, Smart-Hose™ I, Smart-Hose™ I with breakaway, and Smart-Hose™ III utilize the unique design for eliminating the potential for disaster. This is done through the use of an internal cable connected to specially designed, normally unseated valve "flappers or plungers" located on each end of the cable. The "Smart-Hose™ Safety" system will shut-off the flow of product conveyed in both directions instantly in the event of a hose coupling ejection, hose stretching to an unsafe condition or hose separation. Smart-Hose™ incorporates a coated cable within the hose bore that is connected to the valve plungers, wedges or flappers. This cable acts as a compression spring providing thrust in the direction of both ends of the hose, holding the valves open. Should this thrust be eliminated due to coupling ejection, hose stretching or hose separation, the valves release and instantly seat, stopping flow in both directions.

Smart-Hose Features: All major industrial gas producers use Smart-Hose with three issuing global specifications!



- ❖ Eliminate costs associated with environmental damage and remediation - Reduced legal and insurance costs
- ❖ No additional training required for operators- Many employees will not even know that they are using a Smart-Hose!
- ❖ Smart Hose costs slightly more but in all events this cost is immaterial when compared to the safety benefit.
- ❖ Allows industry players to respond to warnings as they relate to reliance upon Excess Flow Valves in the event of hose failure in related applications.

Andy Abrams
Philadelphia



Managing Road Safety



Being an important aspect for our business, road safety requires a lot of regular attention and focus. Training of Drivers alone is not enough to ensure vehicular safety. Results have shown that increasing visibility of vehicles especially during

the night has a positive impact on the reduction of road accidents. Super Gas has taken the initiative to improve the visibility of its entire Bulk LPG tanker Fleet of around 200 vehicles with conspicuity sheeting and reflective tapes.

Whether parked or moving our tankers would now be visible from almost a kilometer away. This is another step towards our commitment to Safety!

Raghu Kadali
Hyderabad

Thermax & Super Gas Tie-up

capacities of equipments which includes high pressure gas train. This ensures the safety of equipment and consists of an isolation valve, slam shut off valve, pressure switch, filter & high pressure regulator. The readily available conversion kit can be easily retrofitted into the existing equipment thus substantially reducing the conversion downtimes. In addition to Smoke Tube Boilers, Hot water generators, Reverse flue boilers, Coil type thermal oil heaters (single & double jacketed), Coil type steam boilers (IBR / Non IBR), Vapor absorption chiller & Waste incinerator can also be converted to LPG.

Super Gas is a well known Company and a leader in providing turnkey LPG solutions which meet stringent safety norms, ensure reliability of LPG supplies through it's wide spread supply network. Super Gas is extending their expertise in the field of LPG to be used for Thermax's equipments.

Thermax & Super Gas have jointly executed several projects and able to provide "Total Energy Efficient and Sustainable Environment friendly Solutions with LPG as a preferred fuel on existing Liquid fired boilers & heaters up to 10 Lakhs Kcal/Hr

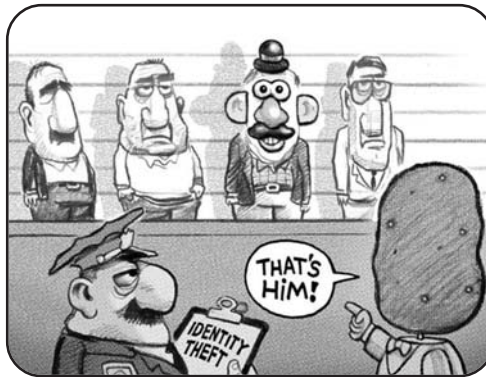
Raghuveer Shindikar
Asst Manager – Services (SBU)
Thermax

Information Security

Safety of Information

What is Information Security?

The information security is defined as "the protection of information systems against unauthorized access to or modification of information, whether in storage, processing or transit, and against the denial of service to authorized users or the provision of service to unauthorized users, including those measures necessary to detect, document, and counter such threats."



Benefits of effective security information: Keeps a company within the law and gives it more control over its relations with employees, customers, suppliers, and partners.

Currents Risks — Why Is Information Security Important?

The following list outlines some of the reasons why information security is an important aspect of everyday business done electronically or otherwise:

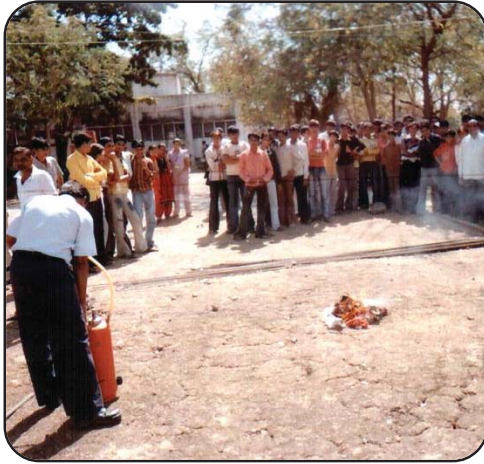
- ❖ Information disclosed to a competitor can result in a competitive disadvantage.
- ❖ If information is disclosed, wrong or lost, it could affect business revenues or profits.
- ❖ When information is lost or privacy breached, shareholders, suppliers, or customers lose confidence in an organization, which results in reduced loyalty.
- ❖ If information is disclosed or altered, goods or funds can be improperly diverted, which can result in fraud.
- ❖ Business can be disrupted by the unavailability of applications or information services, which can result in loss of revenue and clientele.
- ❖ Inappropriate disclosure of information can result in a breach of legal, regulatory or contractual obligations.
- ❖ User can suffer personally through loss of privacy or unauthorized use of identity.

So, Proper access control is a cornerstone for securing information, though it is often not planned adequately.

Protection of Information is a business requirement and its Security, training, monitoring, incident response and repair/review is an ongoing process "Information Security is not just a technology issue—this is a people and process issue too!

Atul Gupta
Hyderabad

National Safety Day Celebrations



Safety program at ITI Amreli



First Aid program conducted by St. Johns' Ambulance at Kolkata



Safety program at HBL Hyderabad



Safety program conducted by Gujarat Safety Council at Porbandar



Safety program for house wives at Gurrampalem



Safety program at IFGL Rourkela



Mock drill conducted at Murbad Filling Plant



Safety Week Inauguration at Terminal by District Collector Porbandar



Color Competition at School in Vizag

PESO Team visits Murbad Filling Plant

co-ordination/understanding between Statutory Authority & executing agencies establishes a healthy & safe industrial environment.

On our request; Joint Chief Controller of Explosives, Mumbai, Mr. Sargunaraman visited SHV's LPG Bottling Plant at Murbad, Maharashtra. A presentation on SRV and vessel

inspection, together with plant inspection was organized on 26th November at the Murbad Plant. The Joint Chief Controller of Explosives visited Murbad filling plant with a team of officers from the Explosives Department namely Mr. Shahu, Mr. Janardan & Mr. Srinivas Rao. SHV's Manager Technical Mr. Amish Mehta, was at the plant to receive the honored guests and attend the program.

The activity of periodic testing of safety valves was explained and carried out jointly with the SHV Team and witnessed by "Competent person" S.G Fabrectors, Ahmedabad in the presence of the team from Explosives Department. Mr NA Patel, NDT Inspector from S G Fabrectors, undertook thickness measurement of vessels.

Mr. Sargunraman and his team carried out detailed inspection of Storage Tank fittings, Cylinder filling Plant, Cylinder testing, Cylinder Storage, LPG Handling systems, LPG Road Tankers, flameproof electrical fittings etc. Other field related technical problems were discussed

in detail. Joint Chief Controller of Explosives explained and clarified the objective of Statutory Rules. He was very satisfied with plant visit and thanked SG Fabrectors and SHV for arranging the program

G K Shukla
S G Fabrectors



PESO Team at Murbad



Runner-up Cartoon by R. Rajesh

Global Safety and Technical Conference

The annual Technical & Safety and Global Operations Conferences were held this year at The Hague, Netherlands from 22-25 April 2008. Participants from 24 countries attended and India was represented by Mr. Ankur Desai. The Conference was an excellent forum for discussing and sharing good practices between participating countries.

The Safety performance for 2007 of all countries was reviewed. In the Indian context 'Near Miss' reporting has seen a good improvement. Road safety is a focus & challenge for India. Several initiatives on vehicular safety are under implementation.

The Conference emphasised the need for thorough root cause analysis of incidents and informative presentations of a few case studies were made. The Conference also discussed amendments on Safety Standards Part II (minimum requirements for Operational LPG Facilities exceeding 50MT)

Overall the Conference was a great exposure and experience in reinforcing the overriding importance of Safety in the LPG Industry

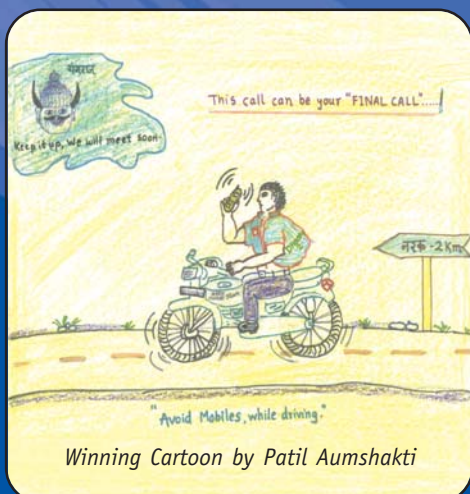
Ankur Desai
Delhi

Safety Training - Need to Step-up!

Supervisors should monitor this closely and clarify any doubts proactively

Most Safety tips are relatively simple and inexpensive solutions, but the safety payoff can be enormous. Remember, training is only effective when we understand and use what we've learned. Let us step-up and measure up to Safety

Cdr A S Oberoi
Hyderabad



Winning Cartoon by Patil Aumshakti



Emergency Response Number in Gujarat, Andhra Pradesh & Uttarakhand

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