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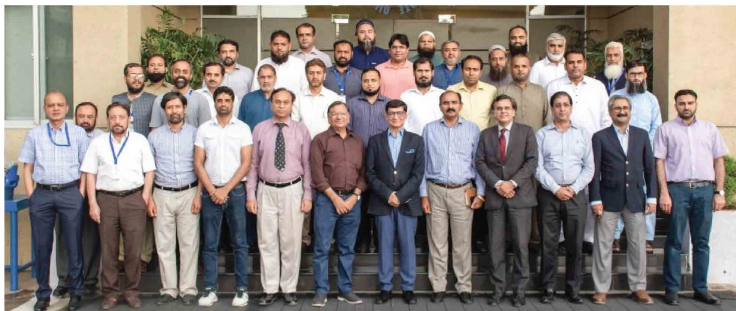
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APRIL-JUNE 2022

## NEWSLETTER

OIL & GAS DEVELOPMENT COMPANY LIMITED

### WORKSHOP ON **HSE LEADERSHIP** FOR LINE MANAGEMENT



OGTI in collaboration with HSEQ Department arranged an Exclusive Workshop at OGTI on "HSE Leadership" for developing comprehension & leadership role of Line Management toward HSE. Line Management, at all levels EDs, HODs, Area & Location Management were tutored to understand the leading & lagging performance indicators. They were also made conversant with range of occupational health, safety and environmental risks in their part of the organization (Directorate) and to give proportionate attention to each of them through monitoring & barriers/ controls capitalizing STOP intervention system. The Workshop was scheduled as follows:

Batch-I: Production Directorate  
Schedule/ Date: May 16-17, 2022

Batch-II: Exploration and Petrosew Directorates  
Schedule/ Date: May 18-19, 2022



Workshop Facilitator was Mr. Akhtar Qudus who is an International Safety Consultant & Master Creative Trainer, Risk Manager, Auditor and Coach with over 40 years of diversified experience. He has worked with government, private & multinational organizations in various sectors including oil & gas, chemical & petrochemical, fertilizer, energy & power, engineering, FMCG, textile industry, construction, transportation & heavy cargo lifting & haulage companies in Pakistan, Saudi Arabia, Jordan, UAE, Oman, Azerbaijan, Malaysia, Thailand, Indonesia, Korea, Vietnam and India. He has proven experience of delivering and exceeding clients' expectations, successfully developing, implementing & auditing HSE management systems & processes, ensuring regulatory compliance & recognized engineering & industry best practices. His key strengths include process safety management, risk assessment, HAZOP, incident root cause analysis, asset integrity & reliability management, inspections & audits, leadership & human behaviors, legal & regulatory affairs, international codes & standards.





The hardest part of any relationship is when it is time to say goodbye. As much as we might like things to stay the same, change is an inevitable part of life. On the eve of retirement (June 05, 2022) of Mehmoood Ul Hassan Khan Gurmani, HSEQ Team shared thoughts on the work association with him and wished him all the best for the post retirement era. HSEQ team members paid him rich tribute for his commendable service, positive attitude, cooperation, sense of responsibility and ready wit. He joined OGDCL in 1988. He held Bachelors' Degree in Petroleum Engineering from UET, Lahore. HSEQ Department presented him a shield and bouquet of flowers along with a souvenir package as a gift.



# EMT-LMT

## Interactive Emergency Drill Highlights

**Scenario: Fire Engulfment of LPG Filling Gantry**

**Date: June 24, 2022**

**Location: Kunnar/KPD-TAY Plant, District Hyderabad**

**EMT activated at: EMT Room, OGDCL House**

**Level of Crisis: 3-4**



An Interactive Emergency Drill was planned at Kunnar/KPD-TAY Plant to assess the response in case of any sort of emergency. As per OGDCL Head Office EMT Roster, EMT Chairman was ED (Exploration) Mr. Furrugh Saghir. As per protocol, Field Manager (Kunnar/KPD-TAY) communicated emergency to GM (Production), GM (Production) apprised EMT Chairman regarding emergency and EMT Chairman activated the EMT. EMT Chairman informed EMT team members regarding emergency and to gather at EMT Room; WhatsApp group specifically created for the EMT purpose was also used. EMT Chairman activated the EMT after receiving the information from GM (Production). All the team members were advised to reach EMT Room by 0915 hrs. EMT Chairman after consultation with MD/CEO deactivated the EMT at 0955 hrs. At the end of drill, EMT Chairman asked the participants to share their views/ feedback regarding drill. EMT Chairman showed satisfaction over the proceedings and said that we can have drill for remote-area-emergencies as well like seismic crew travelling at odd hours and without prior intimation in future. GM (System) added that shifting of injured to foreign country is a complex process and is not easy to be executed immediately. Further air ambulance from Karachi cannot even reach in two hours at the site. We should have a prior Contract in hand for that. Upon query, EMT Chairman said that status may also be updated in the Whatsapp group for MD/CEO and other Core & Support Members who are not present in the meeting room. GM (System) proposed that each Core Member should be called upon on cellular phone in addition to the Whatsapp messages to ensure that he is informed. Manager InCharge (HSEQ) informed that EMT-LMT Interactive Emergency Drill's frequency is 01 per annum which is being updated as 02 per annum in the revised protocol. At the end, EMT Chairman appreciated the combine efforts & team work of EMT-LMT Teams and closed the proceedings.



# OGDCL House Gets ISO 45001 and ISO 14001 Certified

**Congratulations** to the Management of OGDCL on achieving ISO 14001 and ISO 45001 Certifications for technical scope **“OGDCL House administration including maintenance, IT/ communication, safety, security, catering, medical & transportation services”**. The whole audit process was carried out thoroughly with full support, cooperation, and openness of OGDCL team and Lead auditor from SGS recommended OGDCL for ISO 14001 from 31 May 2022 & 45001 from 03 June 2022 for complying with the requirements of the standards.

During the audit, SGS Team find some good practices at OGDCL among which some of them are well-defined system procedures, SMART objectives setting, STOP intervention cards, well-maintained risk register, HSE monitoring plans, outsourced firefighting services, PTW compliance, HSE management review meetings, in-house trainings, internal HSE audit protocol and Indoor Air Quality Monitoring (IAQM) etc. Areas for improvement are already mentioned in the first and third party audit reports among which execution/materialization of SMART objectives need to be expedited on fast pace. More emphasis to be placed on employees' wellness programs and green building initiatives.

I must appreciate efforts put on by OGDCL team Mr. Tariq Sharif, Lt. Col. Darwaz Khan, Mr. Naib-e-Uddin Muhammad, Dr. Muhammad Ilyas, Mr. Aamir Shehzad, Dr. Haroon Ali, Mr. M. Sameem Hussain Oaiser, Mr. Jawad Ul Hassan, Mr. Sajid and others led by Mr. Muhammad Mubashir Abbas, ISO Project Coordinator who timely pursued the roadmap set for the implementation of HSE System and professionally prepared OGDCL House to conduct Stage-I and Stage-II audits & compliance evaluation by SGS.

In the end, an important proclamation – more important task for OGDCL House starts from today onwards – that is to maintain the 'sanctity' of these Certifications and it can only be achieved if compliance of HSE system is reinforced in the behaviors & attitudes of the building occupants & custodians by paying heed to improvement opportunities. In the upcoming surveillance visits, HSE system would be audited more thoroughly by our Assessors for impelling continuous improvement.

**Thank You & Best Wishes,  
Shaheer Tariq  
Manager SGS Pakistan Pvt Limited**





WORLD ENVIRONMENT DAY

5 JUNE 2022

ONLY ONE EARTH

Theme for the year 2022 - **Only One Earth** - highlights the fact that the global warming, drastic climate change with changing weathering patterns and environmental degradation is causing disasters in the form of storms, floods, heat waves, food insecurity and water scarcity.

National Disaster Risk Management Fund, established by the Government of Pakistan, assists to cope with adverse impacts of climate change phenomena, reduce the fiscal losses through physical and soft interventions with the help of donor agencies.

Environmental considerations are an integral part of NDRMF's interventions, through structured and systematic Environmental and Social Management System (ESMS). DRR and Climate Change projects with public and non-public entities particularly focuses on nature based solutions and involvement of communities.

Lets strive for conservation of Earth for better future and life of all

LIVING SUSTAINABLY IN HARMONY WITH NATURE

NDRMF is striving towards mainstreaming climate related adaptation and mitigation through ecologically targeted initiatives with the aim of restoring degraded ecosystems, investing in nature based solutions and promoting green economy.

#### Investing in Nature Based Solutions for Climate Change and Disaster Risk Reduction

Mainstreaming climate related adaptation and mitigation through Ecologically Targeted Initiatives and DRR interventions covering:



##### Afforestation

Increasing forest cover, sustainable agroforestry options, conservation of mountain ecosystems



##### Integrated Water Management/Recharge Pakistan

Water recycling, contributing to rise of water table, decreased salinity in tranches of the rivers



##### Conserving Marine Life, Marine Protected Areas and Promoting Blue Economy

Improving management, effectiveness and sustainability of existing and new marine protected areas



##### Promoting Eco-tourism

Establishing sustainable tourism, contributing in conservation of both natural/protected environment and cultural heritage



##### Clean Mobility

Transition to electric public transport in major cities

#### DRR Interventions:



##### Flood Protection

Construction of flood protection infrastructures to protect vulnerable communities



##### Drought Mitigation

Building water conservation structures for drought mitigation



##### Landslide Stabilization

Mitigation of disaster risks associated to landslides



##### Investing in Community Based Disaster Risk Management (CBDRM)

Building resilient and adaptive communities through preparedness and mitigation measures in context of climate change



##### Strengthening Rescue Services

Enhancement of Emergency response and rescue facilities in the disaster prone regions.





# NASHPA FIELD CELEBRATED HSE AWARENESS EVENT



To promote best HSE practices & culture, HSE Awareness Events was organized at Nashpa Oil & Gas Field on June 04-05, 2022. The 1st Day activities started with the exhibition of HSE Performance FY 2021-22 presentation wherein, Sectional Heads witnessed HSE Lagging & Leading Indicators. Later on, Safety Walk started from CCR towards Field Management Block; participants were holding banners containing safety signs, posters & HSE messages. Safety Walk was accompanied by Ex-Military Band and ended at Admin Block, all the employees gathered at Admin Block to observe March Passed by FC Jawan with Flag hoisting and National Anthem ceremony followed by formal inauguration of Event by Field Manager; Events badges were distributed among all employees present; after recitation of Holy Quran, IC HSE expressed opening remarks on account of HSE Awareness Events, its Objectives and HSE statistics; Sectional ICs also expressed their views on importance of safety and compliance of HSE protocols. HSE Quiz competition with instant prizes was also held, it comprised of terminologies/ definitions, ERP Responsibilities etc. The 2nd day of HSE Events started with Fire & Safety Equipment Exhibition, FM Chanda, FM Togh and FM Dhok



Hussain were invited and participated in HSE Events 2nd Day. IC HSE briefed about the Fire & Safety gadgets. Firefighting & Rescue Competition between two groups seen with quite interest & enthusiasm by the audience. HSE slogans, environmental protection posters and cross-words competitions were also contested both by the Officers & Staff. Rest of the program was focused on the distribution of shields, certificates and prizes to the winners & Runner-up of Firefighting & Rescue Competition, Winner of HSE Slogan Competition, Environmental Posters, Cross-words, Hazard Spotting and Essays. Qualified Sectional ICs were presented awards & souvenirs on the basis of HSE KPIs. These awards were given after rigorous evaluation by an approved panel of the professionals. FM Chanda (being a Chief Guest) and Nashpa addressed the employees and emphasized to work hard with positive behavior and compliance of HSE procedures to achieve the targets without any accident and for continual improvements of HSE Management System; Concluding remarks affirmed Field Management commitment towards realistic HSE implementation with zero accident goal in real spirit.

# PETROCHEMICAL ENGINEERING CONSULTANT CONDUCTED **HAZOP STUDY** OF SINJHORO GAS PLANT



In compliance with OGDCL Integrated HSE System Manual, (Lifesaving Golden Rule 1 – Hydrocarbon safety), the HAZOP- Hazard Operability" study of Sinjhora Gas Plant was conducted to update the process and instrumentation diagrams, process flow diagrams, layout drawings and to review the basis of design through 3rd Party Consultant M/s Petrochemical Engineering Consultant on 24th -25th June 2022. Field's multidisciplinary team managed the challenging task with the Consultant's professional guidance and concluded the study's entire scope including Separator area, dehydration unit, stabilization unit, LPG area, fuel gas system and flaring system.



## **OIL & GAS TRAINING INSTITUTE** Integrated Waste Management Protocols in Oil & Gas Industry

June 27-28, 2022





## Sinjhor Gas Field

Advanced **First Aid &**  
**Rescue Techniques Training**

First aid is an important tool in quick responding to accidents and to ensure that injuries can be efficiently and promptly dealt with prior a trained medical professional arrives to administer more specialized treatment. First aid in oil field is especially helpful if an employee gets into accident that can need swift care in order to prevent things from escalating. Whether it's a minor injury or something more serious like a fracture, preventing further complications is paramount. Ensuring there are trained first aiders within the field premises, will be able to help victims in any unforeseen event. The session on First Aid & Rescue Techniques was conducted on June 26, 2022. Total 35 employees attended the session. Participatory approach was applied during the training. Participants were encouraged to actively involve in training sessions for better understanding. Instructors were Mr. Mehboob Ali Shaikh, Commandant-Civil Defence, Mr. Sarfaraz Hussain Jaferi, Ex-Commandant-Civil Defence and Mr. Arif Moen, EX-Commandant-Civil Defence. Topics discussed in detail were ABC of First Aid, First Aid Bandage, First Aid CPR, First Aid Kit List, Animal Bites, Bruises, Burns, Choking, Cuts & Wounds and Insect Bites & Stings



# What Firefighters need to know about BLEVEs.....!



## Explaining a boiling liquid expanding vapor explosion, how it occurs and how it can be prevented

In 1959, the Kansas City Fire Department suffered its second-largest loss of life in the line of duty when a 20,000-gallon gas tank exploded in a fire, killing five firefighters. This kind of dangerous explosion would later come to be known as a BLEVE, but what exactly does that mean?

Here's a breakdown of what a BLEVE is, how it occurs and how it can be prevented.

**WHAT IS A BLEVE?** A BLEVE is a boiling liquid expanding vapor explosion, which occurs when the pressurized liquid inside a vessel, such as a propane tank, reaches temperatures higher than that liquid's boiling point. If the vessel can no longer contain the pressure inside of the sealed tank due to the high temperatures, it will mechanically fail, causing the explosion.

Whether or not a fire occurs is contingent on if the liquid inside of the tank is flammable. If it is, a fire will often occur. If the vessel contains non-flammable liquid (such as a steam boiler), a BLEVE will occur, but the vapors will not ignite.

Heat does not have to be present for a BLEVE to occur. Mechanical damage or overfilling can also cause the vessel to explode. A second-stage BLEVE can occur if a vessel releases combustible vapor into an area where it then mixes with air in the presence of a source of ignition. Then, the explosion can stress the heated vessel and cause it to rupture, resulting in an explosion of the vapor.

**HOW CAN A BLEVE BE PREVENTED?** The complete rupturing of a vessel can be prevented by incorporating a sort of vent mechanism to let vapors eject directly up into the atmosphere.

If the vapor is not able to be ejected straight up, the pressurized vessel should be kept in an enclosure that will contain any explosion pressure and control the blast.

**FIREFIGHTER SAFETY IN BLEVE-POSSIBLE SITUATIONS:** When battling a propane tank fire or another type of incident where a BLEVE is possible, NIOSH recommends firefighters do the following:

- Keep as much distance from fire as possible by using unmanned hose holders or monitor nozzles.
- Flood containers with large quantities of water to cool them until well after the fire is out.
- Avoid icing by not directing water at the source of a leak.
- Be aware of sections of the vessel flying in all directions.
- Regulators also urges fire departments to continue to educate its firefighters on the dangers of BLEVEs so they can be aware and stay safe at high-risk scenes.

A Mental Health Resource to Support Young Workers



## Mental Health at Work: *A Shared Responsibility*

### Employer Responsibilities

Your employer is responsible for providing a safe and healthy workplace.



#### Clear Expectations

Clear and consistent expectations so that you and your co-workers understand what you need to do on a daily basis



#### Respectful Workplace

A respectful workplace where it is clear that bullying and harassment will not be tolerated



#### Safe Space

A workplace that is a safe space for all who work there, where you and your co-workers feel physically and emotionally safe



#### Training and Equipment

Training, equipment, and everything you need to do your job safely, provided in safe working order

**Taking care of workers' mental health is part of your employer's job!**

If your employer regularly fails to provide any of the above:

**Reach out to your Supervisor or someone you trust at work**

Raise your concerns to your supervisor and ask to have your rights respected. If your supervisor is part of the problem, reach out to someone in Human Resources, a union member, a mentor, or a trusted co-worker.

Try to have someone there to support you when you raise your concerns.

### Your Responsibilities

You are responsible to be ready to work physically, mentally and socially.



#### Physically Ready

Do you get to work on time, well-rested, and ready to do the tasks that are part of your job?



#### Mentally Ready

Can you focus on your job and get things done, even when things feel tough at work or home? Do you know where to get help when you don't understand something or need support?



#### Socially Ready

Are you polite and respectful in the social interactions your job requires? Do you feel like part of the team?



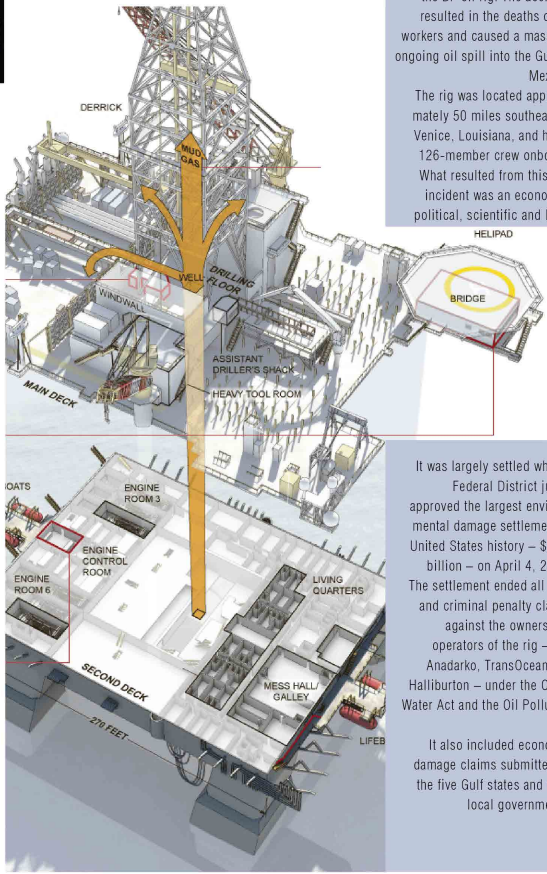
If you notice a change in your ability to meet your responsibilities above:

**Reach out to someone you trust**

## SAFETY OUT OF FOCUS

# Bowtie Diagram BP Deepwater Horizon Oil Rig Blowout

On April 20, 2010, a sudden explosion and fire occurred on the BP oil rig. The accident resulted in the deaths of 11 workers and caused a massive, ongoing oil spill into the Gulf of Mexico. The rig was located approximately 50 miles southeast of Venice, Louisiana, and had a 126-member crew onboard. What resulted from this one incident was an economic, political, scientific and legal



It was largely settled when a Federal District judge approved the largest environmental damage settlement in United States history – \$20.8 billion – on April 4, 2016. The settlement ended all civil and criminal penalty claims against the owners and operators of the rig – BP, Anadarko, Transocean and Halliburton – under the Clean Water Act and the Oil Pollution Act. It also included economic damage claims submitted by the five Gulf states and their local governments.

<p><b>Well control event</b></p> <p>Temporary well abandonment, well control facility</p>	<p><b>MAJOR HAZARD</b></p> <p>There were weaknesses in cement design and placement, well control and risk assessment, and well control facility</p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>
<p><b>Shore track barriers to isolate the hydrocarbons</b></p>	<p>Hydrocarbon ingress was through the shore track, well control facility, and through the casing</p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>
<p><b>Negative pressure test</b></p>	<p>The negative pressure test was not established, although well integrity had not been established, and BP well site barriers reached the incorrect conclusion that the well was not leaking</p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>
<p><b>Influx indication</b></p>	<p>The rig crew did not recognize the influx, and did not act to control the well until hydrocarbons were detected at the BOP and into the well</p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>
<p><b>Well control</b></p>	<p>Well control response was not initiated until the center of the well. If fluids had been diverted into the well, the mud gas separator (MGS) there may have been more time to respond to the well</p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>
<p><b>Mud Gas Separator</b></p>	<p>Division to the mud gas separator was not designed to divert the gas into the well</p>	<p><b>PLANT DESIGN</b></p> <p>Well control event</p>
<p><b>Loss of containment</b></p>	<p>Hydrocarbons migrated beyond areas that were classified as areas where the potential for ignition was high</p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>
	<p><b>Fire and Gas System</b></p>	<p><b>ALARMS, BOPS &amp; INTERLOCKS</b></p> <p>Well control event</p>
	<p><b>Blow Out Preventer</b></p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>
	<p><b>Major fatalities &amp; injuries</b></p>	<p><b>OPERATIONS</b></p> <p>Well control event</p>