



إحدى شركات مؤسسة البترول الكويتية
A Subsidiary of Kuwait Petroleum Corporation



C&MD HSSE AWARD 2012





Speech of the Sponsor Chairman & Managing Director Mr. Sami F. Al-Rushaid 28th May, 2012

In the Name of Allah, The Merciful, The Compassionate

Dear Colleagues,

Honorable Ladies and Gentlemen,

May peace and mercy from Allah be upon you,

To begin, it is my pleasure to welcome you to the 15th Edition of the Chairman and Managing Director's Award for Health, Safety, Security and Environment (HSSE) through which we celebrate a host of the most outstanding and important initiatives undertaken by our employees in this vital domain all year round.

Through this Award, Kuwait Oil Company (KOC) continues its efforts to develop and enhance the standard of Health, Safety, Security and Environment systems and goes a step forward in consecrating this concept at the operations and projects level, as well as in the behavior of its employees throughout its facilities.

Dear colleagues,

As we celebrate this award today, we remember that just a few weeks ago we achieved an outstanding accomplishment with KOC winning four prizes within the framework of the First KPC CEO HSE Awards. This is something that we are proud of and it is, no doubt, an added value to the continuous efforts exerted by the Company in order to further strengthen these extremely important aspects.

I wish to reiterate that the importance does not only rely on achieving a win or obtaining a prize; for we only look at prizes as an indication of the quantity of efforts exerted in the field to show the level of progress that we were able to obtain, and the phases we passed in the continuous journey of our work, bearing all sorts of challenges and difficulties.

KOC strives with every possible effort to meet its responsibilities towards society while accomplishing its mission in the domain of the oil industry. Therefore, the Company spares no effort in becoming acquainted with the issues and concerns of the society, constantly trying to provide whatever is needed for making a tangible difference for its benefit, prosperity, development and welfare.

It is very difficult to set up an account of the Company's initiatives, for they are diversified and continuous; they are not limited to KOC's neighborhood in Ahmadi, but rather they expand to reach every corner of our dear homeland. The importance it accords to the Environment, for example, is not focused on one specific place, but it is general and comprehensive and its results widely noticed in each and every part of the country.

Dear ladies and gentlemen,

KOC has closely followed up on the gas leak problem in Ahmadi in order to reassure the public of the safety of the district in a bid to protect the lives of its inhabitants and preserve its environment. These efforts culminated in the reduction of gas flaring throughout its operation

sites to reach 1.32% during the last Fiscal Year, a percentage lower than the annual targeted average of 1.8%.

On the other hand, we haven't relinquished our commitment to the development of the Environment - It progressed firmly in accordance with a well-planned program made in collaboration with the Public Authority for Agricultural Affairs and other concerned bodies for the preservation of wildlife and the establishment of natural reserves. In the meantime, the Company was keen to provide sources of support, enhance the standards of drilling contractors, and develop the rules and regulations related to Health, Safety, Security and Environment to make them even more strict and efficient by including them in contractual agreements.

Dear attendants,

KOC has recently strived to intensify its society-oriented activities and it has organized in this context four awareness campaigns encompassing important subjects such as: Waste Recycling, Gas Flaring, Children's Safety in Vehicles and Back Pain awareness. The campaigns targeted students and the population in general.

Ahmadi Hospital continues to play its role of providing the best possible medical care to oil sector employees, including home visit services to patients whose cases prevent them from going to hospital. The hospital has also introduced new services and adopted the latest technologies in order to perform different activities.

Sisters and brothers,

Every success obtained by our company is but a result of the close collaboration between its employees, its contractors and the governmental establishments with which KOC cooperates, and I hereby wish to express my most sincere gratitude to them all.

I would like to take this opportunity to heartily congratulate the contenders for this Award, and thank and hail the efforts of everyone who contributed to help the Company implement its Health, Safety, Security and Environment plans.

I would also like to thank the Award's Organizing Committee and its members, as well as all those who participated in the preparations for this ceremony to make it a real and beautiful occasion.

In conclusion, I hope everybody will remain safe and sound and I pray to Almighty Allah to bless our beloved homeland with security and stability, under the wise leadership of His Highness the Amir and his loyal Crown Prince.

May peace, mercy and blessings from Allah be upon you.



Speech of the Committee Chairman Manager Health, Safety, Security & Environment Group **Mr. Mohammad Al-Fodari** 28th May, 2012

Mr. Chairman, DMDs', Colleagues, Distinguish Guests and Ladies & Gentlemen,

It gives me great pleasure to celebrate the 15th C&MD HSE Award today. This year, the C&MD Award Committee selected "Responsible Care" as the theme of the award, which clearly reflects the importance that KOC attaches to the quality of the services it renders in terms of business and toward the community.

KOC believes that caring about the safety and health of its employees, contractors and partners falls within its core responsibilities. Therefore, KOC implements the HSSE Management Systems, which includes the Risk Management and Integrity Management & Identification of Hazards within all KOC activities.

We have identified health hazards at various worksites throughout KOC and we have also put in place control measures on projects for employees and Contractors.

In this context, the Company has implemented a set of measures that fall in line with our Strategic Objectives concerning the protection of the environment. Consequently, KOC has minimized gas flaring, effluent water disposal to the pits and also implemented a waste management program.

We also recognize that conducting awareness campaigns and programs related to HSSE is of the utmost importance to encourage positive behavior and performance from employees and contractors.

This year, we received 248 applications that cover four categories: Safety, Environment, Health & Awareness.

- SEK Directorate submitted 67 applications.
- WK Directorate submitted 56 applications.
- E&PD Directorate submitted 39 applications.
- P&G Directorate submitted 27 applications.
- A&F Directorate submitted 23 applications.
- TS Directorate submitted 18 applications.
- NK Directorate submitted 17 applications.

The C&MD Award Committee and sub-committees have evaluated the applications as per the set criteria and decided on a group of finalists. From that group of finalists, one overall winner was selected.

Applications from KOC contractors were also submitted and reviewed and 3 applications were selected for best HSSE performance.

We invited distinguished guests from outside KOC because of the work and effort they displayed which has been recognized and appreciated by KOC.

Finally, I would like to extend my appreciation to KOC Chairman Sami Al-Rushaid and his Deputies for supporting the initiatives and projects, including this prestigious award. I also appreciate the effort of the C&MD Award Main Committee and Sub-Committees and last but not least; I thank you for your participation and look forward to seeing you next year with another Award for our employees and contractors.

Members of C&MD HSSE Awards Committee 2012



Mr. Mohammad Al-Fodari
Manager
(Health, Safety & Environment)



Mr. Fadhel Bouresli
Manager
(Export & Marine Operation Group)



Mr. Abdul Khaleq Al-Ali
Manager
(Public Relations & Information)



Mr. Abdulla Al-Sumaiti
Manager Operations
(North Kuwait)



Mr. Shaker Faras
Manager Operations
(South Kuwait)



Mr. Mustafa Bu Megdad
Manager
(Ahmadi Services)



Mr. Ayad Al-Kandari
Manager
(Development Drilling)



Mr. Dhari H. Gharabally
Team Leader
(Health & Environment)



Mr. Adnan Al-Aradi
Manager
(Major Projects II)



Mr. Mohammad Al-Aslawi
Snr.
Safty Engineer



SUPREME WINNERS

Improved HSSE Performance by Implementation of Smart Multilateral Well in Minagish Wara / Burgan Reservoir, WK.



Hasan A. Bunain, Dr. Adel Al-Abbassi, Khalaf Al-Enezi, Khaled Saleh Mahmoud Essa , Om Prakash Das

Implementation of Smart Multilateral wells MN-178 and MN-180 first time in KOC as well as in Middle East region, by combining the cutting edge technology of Inflow Control Device (ICD), Inflow Control Valve (ICV) and Level-4 multilateral junction in Minagish field, West Kuwait have resulted in significantly improved sustained oil production by completely protecting the environment. The industry's leading cutting edge technology utilized in advanced smart multilateral well design, well drilling and well completion have improved the safety during execution and protected the environment by significantly reducing drilling waste by minimizing number of wells, re-use of drilling fluids by its re-cycling, minimized effluent water disposals, assisted in reducing gas flaring to control air pollution, water pollution, Soil Remediation and Spills Prevention during drilling & well completion operations. Further the utilization of most reliable equipment and smart completion technologies have improved the long term wellbore integrity and significantly minimized well interventions as well as workover jobs, which eliminates the associated safety hazards and its impact on environment. This innovative technology has established the 5 R's principle (Remove, Reduce, Reuse, Recycle, and Recover) to completely protect environment during all phases of the project. In addition the project have saved CAPEX, OPEX and achieved proactive reservoir management by improving the HSSE performance.



WINNERS SAFETY

The Golden man, “A New Concept in Promoting Positive HSSE Behavior”



Mohannad S. Al-Muhalian, Saleh Taleb Gholoum Muqem, Dr. Mohammad Khalid,

This is a new concept to anchor and change the behavior towards Safety in junior crew. Safety is a way of peaceful life, it has to be prioritized over all our commitments.

The Development Drilling & Workover Team-IV Launch the Pilot runs of the “Golden Man” the Monitoring of HSE Behavior in Junior Crew. The Golden Man Concept objectives are as following.

Directly influence the safe completion of Task. Increase crew knowledge about safety. Contribute to safety in the work area. Enhance the safety of others. Demonstrate safety leadership. Prevent an accident or injury.

The Golden man concept was brought into picture in Feb, 2011. Creation of a Golden Helmet and their safety aspects took a long time. The 5 year survey shows that 80% of the incidents & injuries happened from/to junior staff with very low educational background.

Initial phase of finalizing the Golden man helmet completed in October, 2011. A rig was selected from the very new contractor where the Chinese crew had very little knowledge about foreign languages. A set of several criteria was made and conveyed to the rig SP-159. Contractor and the KOC Company man started monitoring the crew as per set

criteria and reported weekly.

Essential survey was conducted to establish status of Positive Safety behavior in the subject rig for 3 months prior to the deployment. Promotion campaign was launched 1 month ahead, Awareness session where conducted for the crew and Observation and selecting criteria was initiated and began.

Winner was selected based on the criteria established. On 29th February, 2012. A full ceremony was held in the presence of the management to give a boost for the concept. Publication in the newsletter to promote the idea is in progress.

A video was made by development drilling & workover team-IV with the theme of “HOW A MAN RETURNS HOME AFTER COMPLETING HIS DUTY ON RIG SITE” which has high incident potential. Also the video talk about what the Golden man is. All actors and their family in the video belong to development drilling group.

The team members of The Golden man Project would like to extend their appreciation to the KOC upper management and development drilling group manager for their continues support towards HSE.



WINNERS SAFETY

Development and Implementation of Reliability Centered Maintenance System for North Kuwait Facilities by MS&R (NK)



Abdullah Al-Harbi, Ibrahim Al-Ibrahim, Azhar Ahmad Khan, Yaser Al-Saffar, Gopal Chandra Mazumdar

Present work talks about our “Rigorously Developed, Well thought – Reliability Centered Maintenance System”, and its Implementation in recognizing the importance of “Asset Management” towards the Organization’s growth & sustenance. RCM System is a cornerstone of our commitment towards managing the Facilities and achieving excellence in our business. Since the inception of new system; abrupt un-scheduled shutdowns, breakdown, damage to units, non-availability of units, repair costs, potential associated risks has significantly reduced making implementation of Integrity Enhancement with Reliability of Higher Production and tremendously Reduced Flaring.

The Implementation of above system has not only improved HSE performance substantially with enhanced TECHNICAL INTEGRITY but has greatly enhanced the KOC’s reputation.



WINNERS SAFETY

Introducing and Implementing High Pressure Protection on Condensate Export Line



Bader A. Mahmoud, Rajiv Kukreja, Bader Al-Hadlaq, Anandkumar Vaishnav, Mathew Abraham

Due to derating of MAOP of two pipeline segments within the integrated condensate pipeline network, the dispatch system was susceptible to failure in case of any accidental closure in a downstream pipeline segment. This could result in large spillage and thus undesirable consequences such as fire, explosion, and toxicity. The Team recognized that operator intervention through Standing Instructions is not adequate under such circumstances, due to the short response time necessary. Operational safety is established by the initiative through provision of automated protection with high pressure shutdown logic of dispatch pumps in GC-03, which is a model for implementation at other GCs'.



WINNERS SAFETY

Preparation and implementation of specific HSSE guidelines for drilling Gotnia formation and for H₂S well testing Operation



Fayez Al Fayez, Mishary Al Mudhaf, Manoj Mishra, Prabaharan Veerasundaram, Jignesh Thakkar

Considering the very high formation pressure during drilling Gotnia formation and sour gas well testing under high H₂S environment, the team felt the need for having some readily available checklists.

An in-house checklist is prepared to drill Gotnia with safe, effective and incident free operation along with the compliance to KOC HSEMS guidelines & requirements. Similarly an in-house checklist is prepared for safe testing of sour gas wells.



WINNERS ENVIRONMENT

Subahiya Oasis Green Power Project



Yousef Al-Humoud, Ahmed Al-Kandari, Hesham Al-Khashti, Abdullah Alabouh, Mazin Nayef

Subahiya Oasis is considered as participation from Maintenance ops (SK) to help protect and conserve the environment. The initiative demonstrates the usage of renewable resources of power system with a combination of solar & wind turbine incorporated with auto changeover provision of backup state supply. The system is to supply green power to the Oasis green land plantation irrigation system through various sources of energies contributed environment protection. During sunshine, the wind generator & solar generated power supplies the irrigation pumps online while extra energy is used to charge the batteries. Wind generator continue to charge batteries after Sun set and the system depend totally on stored energy after sunset to provide required power to irrigation pumps .The electrical intelligent cabin integrates system components to deliver & secure irrigation pumps power demand.



WINNERS ENVIRONMENT

New Procedure for Safe Disposal of Hydro test Water



**Saad Salem Al-Farhan, Falah Shelwan Al-Ajmi, Abdulla Abdulrahman Al-Qadeeri,
Ganga Prasad T Dharan, Jose Kutty Kunjappan**

Disposal of brackish water after hydro test of tank was carried out by draining it into unlined pits outside the GC's leading to an environmental concern. Disposal procedure was modified by transferring the water to a surge tank and recovered through the effluent water system which is now used for a total quantity of 35,385 m³ of brackish water.



WINNERS ENVIRONMENT

BS-140 Flaring Reduction through Modification of BS-140 TR-I & TR-II Liquid HC Drain to GC-19 by In-House MOC Procedures.



Mohd.F.Al-Otaibi, Adnan E. Al-Adwani, Khalid Al-Ahmad, Ahmad Al-Hammadi, Bader Al-Telaihi

BS-140 blow down flare heavy smoke causing excess flaring related to hydrocarbon liquid routing to HP burn pit Flare whenever liquid was condensed in BS-140 TR-I & TR-II system. This is because of Liquid dehydration system non availability to handle the hydrocarbon. In the meantime BS-140 operations monitored the operating parameters for entire BS-140 TR-I/II and identified the root cause of the heavy smoky flaring problems due to Blow down flare which had a vigorous impact on the flaring. Process Modification initiated through Management of Change and after implementation of the In-House modification through management of Change process, BS-140 able to send the condensed Hydrocarbon continuously to GC-19 and estimated cost savings and returns stands at approx. 8,307,200 KWD (appx.8.3 MMKWD) / Annum.



WINNERS AWARENESS

Clean Up Arabia Campaign



**Khalid Al-Dousari, Mona Al-Othman, Abdulrahim Ahmad Ali, Nasser Al-Murdi,
Rashed Al-Qallaf**

Conducted Kubbar Island & beach cleaning on 15th Oct'11 together with Kuwait Environment Protection Society (KEPS). Conducted beach cleaning activity at Green Island on 21/10/11. Imparted environment awareness sessions on Recycling & Clean-up activities to local school at Surra Township on 01/11/11. Organized and conducted environment cleaning at Al-Yarmouk City on 24/10/11. E&MO group has joined with 'Kuwait Riders Association' to raises awareness about beach cleaning among Kuwaiti Citizen through motor bike convoy from KOC Main Office to Kuwait City. Beach cleaning event was conducted by E&MO on 18/12/11 at Abu Halifa which turned out to be a grand success with participation from a wide spectrum of organizations and under patronize of CEO KPC and C&MD KOC.



WINNERS AWARENESS

Zero Incidents through HSSE awareness on Seismic Acquisition project in the City of Jahra



Ahmad Jaber Al-Eidan, Khaled Shams Al-Deen, Bader Al-Ajmi, Jarrah Al-Jenaie, Ghasan Rached

For the first time in Kuwait, Exploration Group had conducted 3D seismic survey in the urban areas within the city of Jahra, where state of the art single sensor seismic acquisition technology was implemented.

The Seismic acquisition survey spanned for over two months within the urban areas covering an over 35 Km².

As part of pre-job Hazard planning, safety distances from buildings and all other facilities were established, and a nationwide awareness campaign has been carried out prior to the survey. All possible media to communicate with the local community such as flyers, newspaper advertisements, TV interviews, Posters etc. have been utilized.

The overall single sensor survey is considered as one of the main contributors towards achieving KOC's 2030 strategy by its potential to increase Kuwait's proven hydrocarbon reserves.



WINNERS AWARENESS

Recycling Awareness Project



Esmail Ali Ahmad, Fahad Al-Naqi, Jerry Thomas, Wafa'a Al-Koot, Masouma Nasser

The prime objective of recycling awareness project to become part of the global movement of Environmental & health protection aspects. Various awareness campaigns initiated among schools (Government, Private & handicapped) within Ahmadi & other part of Kuwait oriented overall levels of students, KOC employees, families as well as public by lecturing, KOC postmaster announcements, posters, gifts documentary films, distribution of recycling containers, logos, leaflets etc. The main achievements of the campaigns are to aware the importance of environment and waste management to new generation, innovative technologies for a clean and Green Environment and familiarize with the recycling operations. The project accomplished recycling awareness lectures in 35 nos. of schools & 50 nos. of houses in Ahmadi which is continuing as scheduled.



WINNERS HEALTH

Healthy People Produce Healthy Company



Ali Hassan Al-Failakawi, Zaineب Hussain Redha, Zaid Kanaan Al-Sarraf, Mohammed Adly, Hussain Ali Ibrahim

Due to the fact that companies cannot stand up and compete in the market (locally and internationally) without healthy staff, in its general and specific meaning, HSE S&EK has gathered its effort since the first establishment of this team in order to help providing healthy environment and habits for KOC employees as well as contractor. Some of the several efforts over the years are interacting with the employees throughout surveys, awareness, and competitions. "Work Related Stress Survey for all S&EK employees", "Losing Weight Competition for S&EK employees", and "Pantry of The Year" competition are all examples of recent initiative of what HSE S&EK have been conducting in year 2011/12.



WINNERS HEALTH

New Surgical Techniques In Joint Replacement Surgery



Dr. Essam Yousri Zaher, Dr. Mohamed Mousa El-Kala, Dr. Shafik Azmi Rafla, Dr. Saber Abdul malak Malouka, Dr. Ahmad Yousri Abdel Hamid Saber

The Arthroplasty unit (Orthopaedics) introduced to Ahmadi hospital & Kuwait many different new surgical techniques especially for young adults in the working age that made the KOC hospital a leading Centre for joint replacement surgery. This reduces the number of patients sent to be treated abroad & outside the hospital to less than 1%. This saved the hospital & KOC hundreds of thousands of US Dollars. Introducing all these techniques made Ahmadi hospital a referral Centre for joint replacement in Kuwait.

1. ASR resurfaces hip arthroplasty for young adults.(We are the only hospital in Kuwait using such technique).
2. Birmingham midhead resection hip arthroplasty for young adult suffering from avascular necrosis of the femoral head. (We are the only hospital in the Middle East using this technique)
3. Oxinium genesis II total knee replacement for young adults want to continue there active sport life.
4. Revision knee surgery (redo surgery) using total stabilized total knee replacement.
5. Recently we introduced the minimally invasive surgery using sigma 150 HP TKR. (We are the only hospital in Kuwait using such technique)

The success of these surgeries is due to teamwork between the arthroplasty team & the different medical specialties and physiotherapy.



WINNERS

CHILDREN



الإسم: رتاج أحمد الكندري
العمر: 8

Name: Retaj Ahmad Al-Kandari
Age: 8



الإسم: انور بدر العيسى
العمر: 11

Name: Anwar Bader Al-Essa
Age: 11



الإسم: ريشون اليكس دانيال
العمر: 12

Name: Rishon Alex Daniel
Age: 12



YOUTH



الإسم: نادين عماد عزام
العمر: 14

Name: Nadeen Imad Azaam
Age: 14



الإسم: أحمد نواف العباسي
العمر: 12

Name: Ahmad Nawaf Al-Abassi
Age: 12



الإسم: لوجين وليد الطراوة
العمر: 17

Name: Lujain Waleed Al-Tararwa
Age: 17



CONTRACTORS

NAPESCO	Technical Support Group
Schlumberger Oilfield Services	Well Surveillance Group
Al-Meer Technical Services Company W.L.L.	Operation Support Group
Baker Hughes EHO LTD.	Well Surveillance Group
IMCO Engineering and Construction Company	Project Mangement Group (WK)

STATISTICS 2012

KOC Employees

The total number of application received	248
The total number of winning applications	13
The number of winning groups	16

Contractors

Number of nominations	25
Number of groups which submitted nominations	11

Youth & Children

The Total number of the youth entries	70
The Total number of the children entries	105

Winning Groups

GROUP	No. of employees
Operations Group (SK)	9
Export & Marine Operations Group	8
Ahmadi Services Group	5
Deep Drilling Group	5
Exploration Group	5
Medical Group	5
Operation Support Group	5
Operations Group (NK)	5
Development Drilling Group	4
Gas Management Group	3
Fields Development Group (WK)	3
Operation Group (EK)	2
Public Relations & Information Group	1
Research & Technology Group	1
Support Services (NK)	1
Support Services Group (SEK)	1