

GSMR Strategic Accelerated Transformation Plan 2020 - 22: Major Highlights

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- ✓ New GSMR Committees
- ✓ GSMR Virtual Academy
- ✓ Sanad Program
- ✓ The Story Behind the Name 'Osool'





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GSMR introduced new Committees and Country Coordination Committees. Learn more!

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Read how Saudi Aramco's Western Region Distribution Department established its award-winning 'Excellence Path-forward' initiative, which follows a well-defined top-down approach to reliability and asset management.



 @GulfSocietyforMaintenance&Reliability

 @GSMRGulf

 @GSMRGulf



“Our decision to shift to the virtual realm reflects our style of always being ahead of the curve; we’re proud to say that GSMR continues to serve its growing community of professionals in full swing.”



إياد البصراوي
Eyad Al Basrawi

Dear Valued GSMR Members,

Welcome to the introductory issue of ‘Osool’, our quarterly, electronic newsletter, featuring the latest happenings at GSMR and trending articles relevant to our industry. There is no better time to relaunch our publication than now, considering there is so much to share about the Society’s many new activities.

Close on the heels of the new Board being elected, the GSMR Strategic Accelerated Transformation Plan 2020-22 was launched. Based on four pillars – Profession, Professional, GSMR Organization Structure and Social Responsibility – it’s a roadmap, which will guide the Society to achieve its vision of being the region’s leading maintenance, reliability and asset management partner based on eight major objectives and 35+ new initiatives. Earlier this year, we launched GSMR Virtual Academy, a unique digital platform for knowledge sharing and exchange, which received an overwhelming response for its webinars and virtual training workshops. We’re honoured to have had internationally recognized and highly respected names in our industry grace our platform. Our decision to shift to the virtual realm reflects our style of always being ahead of the curve; we’re proud to say that GSMR continues to serve its growing community of professionals in full swing despite the current situation pertaining to COVID-19. Our calendar for the remainder of the year is booked with webinars and virtual training workshops, updates for which you will receive via our regular e-blasts and buzzing social media channels.

We’re thrilled to share that plans to create GSMR Body of Knowledge are well underway. Undoubtedly, it will be a major game changer for our profession in the Arabian Gulf. In yet another new move aimed at streamlining operations and strengthening GSMR’s presence across the GCC, new Committees and Country Coordination Committees were introduced including a dedicated Youth Committee, which reflects the Society’s commitment to youth development and empowerment. GSMR also announced the Sanad program under which carefully selected GCC nationals – students, fresh graduates and unemployed youth – will have access to a wide range of opportunities and GSMR membership benefits.

Unfortunately, GSMR’s flagship event, MAINTCON has been moved to October 24-27, 2021 but abstracts continue to be invited. In the future, GSMR aspires to launch virtual conferences as well.

I sincerely hope you find this issue informative and enriching, and I look forward to receiving your feedback.

Become part of the GSMR family!

Join GSMR and enjoy a wide range of benefits and programs including free webinars with certificates, discounted virtual training and certification workshops, opportunities to be featured across GSMR’s media channels and publication, extensive networking with and exposure to regional and international professionals, and MUCH MORE!

To become a member, call +973 1718 0398 or email officeadmin@gsmrgulf.org

Eyad Al Basrawi
Chairman

GSMR
الجمعية الخليجية للصيانة والأتمتة
Gulf Society For Maintenance & Reliability



Eyad Al-Basrawi
Chairman
Saudi Arabia/Saudi Aramco



Ibrahim Hadi
Secretary
Saudi Arabia/SABIC



Mahmood Mirza
Vice Chairman
Bahrain/BAPCO



Ahmed Barnawi
Treasurer
Saudi Arabia/TASNEE



Naser Al-Hajri
Board Member
UAE/Mubadala Petroleum



Ahmed Al-Khalidi
Board Member
Kuwait/KIPIC



Saad Al-Ulaimi
Board Member
Saudi Arabia/Saudi Aramco

Annual General Assembly 2020

GSMR hosted the General Assembly Meeting 2020 at Ramada City Centre, Kingdom of Bahrain, which witnessed a great turnout of members. The audit report for the term 2018-2020, and progress report were shared with the members. The meeting came to end with the much-awaited elections for GSMR's Board of Directors for the new term 2020-22.



A first in the history of the Society, GSMR's new Board of Directors decided to add new Committees and introduce Country Coordination Committees, in keeping with the objectives of GSMR's Strategic Accelerated Transformation Plan 2020-22.

Husain Al-Ali, Chairman

EDUCATION & CERTIFICATION COMMITTEE

It is committed to conducting training workshops of a high standard and providing professional certification opportunities for regional professionals.

Mohammed Al-Tawili, Chairman

ASSET MANAGEMENT COMMITTEE

It is committed to elevating the asset management profession, and spreading its value and culture through awareness programs.

Zayed Al-Mutairi, Chairman

MEMBERSHIP COMMITTEE

It is committed to expanding GSMR's membership, introducing new membership concepts and increasing member value through benefits and incentives.

Aram Al-Yahya, Chairman

GSMR EXCELLENCE AWARD COMMITTEE

It is committed to promoting excellence in maintenance, reliability and asset management by recognizing high achievers in the region through the Society's iconic GSMR Excellence Award.

Abdulrhman Al-Dossari, Chairman

EVENTS MANAGEMENT COMMITTEE

It is committed to strengthen GSMR's presence regionally and internationally through a wide range of events including webinars, virtual and physical symposiums and conferences, technical dinners and others.

Abdullah Al-Qahtani, Chairman

STRATEGIC PARTNERSHIP & COLLABORATION COMMITTEE

It is committed to creating mutual partnerships and collaborations with various organizations in the public, private and non-profit sectors.

Essa Al-Qattan, Chairman

MARKETING & PUBLIC RELATIONS COMMITTEE

It is committed to positioning and promoting GSMR as the number one maintenance, reliability and asset management partner in the Arabian Gulf through a comprehensive and proactive marketing strategy.

Omar Al-Mubarak, Chairman

YOUTH COMMITTEE

It is committed to empowering young professionals and students in the GCC, and shaping their careers through a wide range of youth centric programs.

Bandar Abualnassr, Chairman

M&R DIGITIZATION COMMITTEE

It is committed to promoting digitization, efficiency and the use of technology in the fields of maintenance, reliability and asset management.

Dr. Khalid Al-Jaber, Chairman

SOCIAL RESPONSIBILITY COMMITTEE

It is committed to creating a sense of community among GSMR's members through value added activities that support initiatives and causes in the Arabian Gulf.

COUNTRY COORDINATION COMMITTEES

They represent GSMR in their respective GCC countries and are committed to expanding and strengthening GSMR's presence in the Arabian Gulf.

Bader Al-Otaibi

Kuwait

Nader Milibari

Saudi Arabia (Western)

Husain Al-Dailami

Bahrain

Abdullah Dhafer

Saudi Arabia (Central)

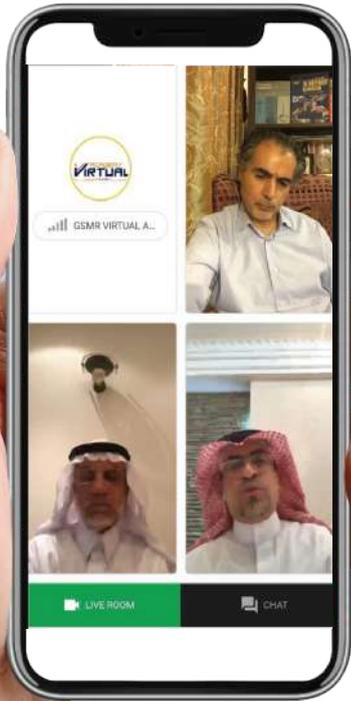
Yerem Davtyan

UAE

Anas Al-Saggaf

Saudi Arabia (Eastern)

The Committee Chairs for Women in Industry and Asset Management and Oman Coordination Committee are yet to be finalised. To join GSMR's Committees, call +973 1718 0398 or email officeadmin@gsmrgulf.org



MAINTCON Rescheduled

In light of the current situation pertaining to COVID-19, GSMR's flagship event, MAINTCON has been rescheduled to **October 24-27, 2021**. However, abstracts continue to be invited on topics outlined and subjects related to the theme of the Conference: Industry 4.0 – New Era in Maintenance & Reliability. MAINTCON 2021 will focus on technological advancements and digital transformation in the fields of maintenance, reliability and asset management.

For more info and to submit your abstract, visit www.maintcon.org



2021
MAINTCON

6th MIDDLE EAST MAINTENANCE &
RELIABILITY CONFERENCE

Grand Launch of



GSMR hosted the inaugural session of its digital platform, **GSMR Virtual Academy**. The decision to launch this unique, interactive platform was made in keeping with the Society's objective to digitize its operations.

The launch ceremony was graced by two well-known names, Dr. Sami Alnuaim, SPE 2019 President and Eng. Abdulrahman Al-Fadhel, Riyadh Refinery Manager, Saudi Aramco. The honorable guest speakers spoke about the impact of COVID-19 on our industry and the way forward. Their valuable insights and presentations were highly appreciated by attendees. The Q&A session was moderated by Eng. Husain Al-Ali, GSMR Education & Certification Committee Chair. GSMR Virtual Academy has hosted eight webinars and four virtual training workshops so far.

Follow us for details on upcoming webinars and virtual training workshops.

 @GSMRAcademy

GSMR conducted a social media competition, inviting suggestions for a new name for its revamped e-newsletter. The rules of the competition stated that the name be in Arabic, one word and represent modernized maintenance. In just two weeks, more than 100 entries poured in across GSMR social media platforms and email. **Manal Al Asousi** was shortlisted as the winner for her suggestion: أصول (Osool) and she won an iPhone 11.



Bader Al-Otaibi, Kuwait Coordination Committee Chair, presents the prize to Eng. Manal Al Asousi



A New Era at GSMR

Eng. Eyad Al Basrawi, GSMR's Chairman, shares the highlights of his professional journey and recent developments at Gulf Society for Maintenance & Reliability.

How have the initial months been since the election of the new Board for the term 2020-22?

I am truly honoured and humbled to have been entrusted with the responsibility of steering this historic and iconic Society with the support of my brothers and fellow Board of Directors. The past months have been hectic but fruitful. We have set the ground for numerous new initiatives.

The launch of GSMR Strategic Accelerated Transformation Plan (SATP) 2020-22 was a major announcement. All our programs are based on the objectives of this Plan.

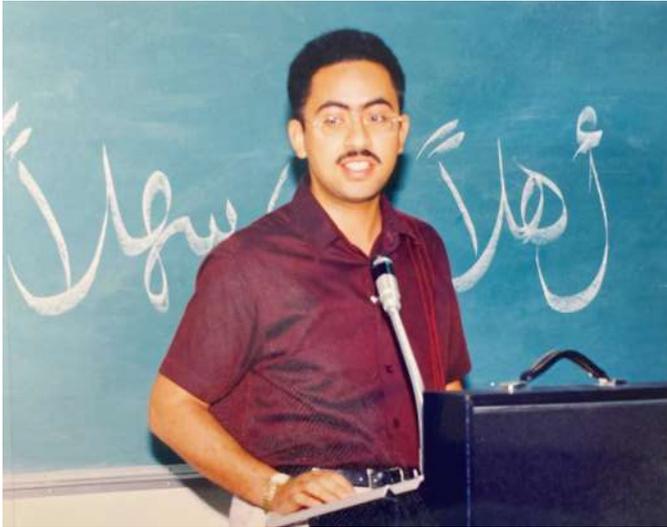
GSMR Virtual Academy, a unique digital platform for knowledge sharing and exchange, was launched under the GSMR umbrella and has received a fantastic response so far. GSMR has digitized most of its operations; we are conducting virtual board meetings – a first in the history of the Society; we renamed and relaunched GSMR's newsletter in electronic format and have come up with innovative social media campaigns such as GSMR Member Speak to increase member engagement and

interaction. GSMR also introduced the M&R Digitization Committee among many others to further streamline operations, and Country Coordination Committees to strengthen the Society's presence in the GCC.

Yet another major accomplishment I'd like to highlight is the nomination of my brother, Eng. Mahmood Mirza, Vice Chairman of GSMR and myself to the international bodies, Global Forum on Maintenance & Asset Management (GFMAM) and World Partners in Asset Management (WPiAM). Undoubtedly, it will create a host of new opportunities for GSMR and its members on the regional and international front.

What inspired you to pursue a career in engineering and why did you decide to join GSMR?

I have always been passionate about engineering as a science especially the maintenance, reliability and asset management fields. Having closely witnessed the evolution of these fields throughout my career, spanning over two decades, I can say that I made the right choice.



GSMR is a beacon for maintenance, reliability and asset management professionals. The first and only one-of-its-kind society in the region to represent these areas of engineering, it is not only a cornerstone of our profession but also a catalyst in the transformation of the maintenance, reliability and asset management fields in the Arabian Gulf. And it continues to be a driving force, which is what, I believe, drew me to become a member of this world-class community of pioneering professionals.

GSMR has always propagated a culture of continuous learning through its many symposiums, conferences and training and certification workshops. It also offers opportunities to engage and network with like-minded professionals in the region and around the world.

What sort of career challenges did you face and how did you overcome them?

I have faced many professional challenges but none come close to the uncertainty that we face today. COVID-19 has affected all the sectors but the Oil & Gas and Energy sectors are two of the worst hit ones, which makes the way forward unpredictable especially for the Gulf countries whose economies are majorly driven by these sectors.

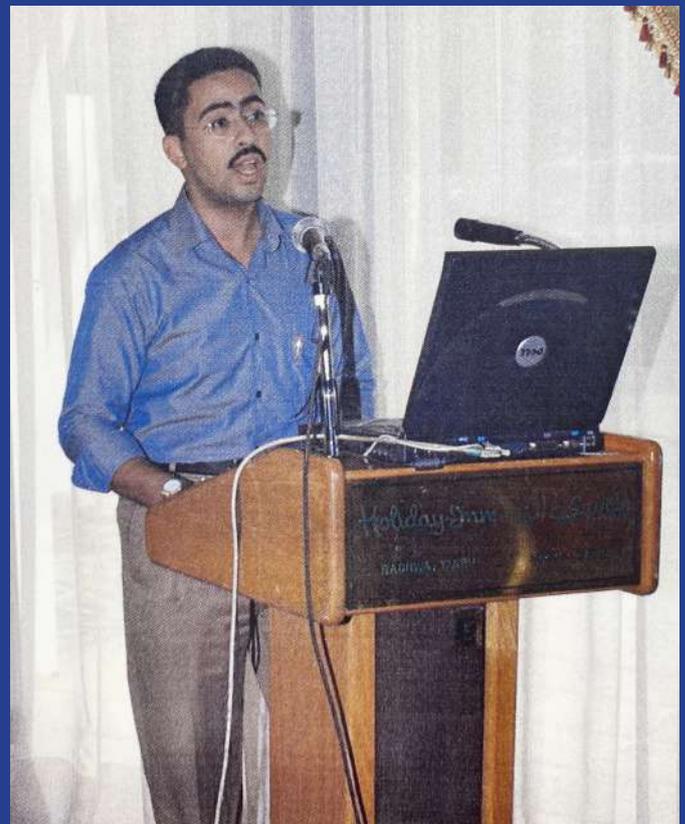
Agility and resilience are imperative if we are to survive and overcome the impact of the global pandemic. We can either seize the opportunity and be ahead of the game or accept the status quo and be driven by the wave. At GSMR, we believe that the show must go on. Our members must never have to pay the price no matter what. And so, we are managing our programs and initiatives intelligently, proactively and persistently.

Technology especially virtual tools and platforms are proving to be a major gamechanger at this moment. We have rebooted our training and certification workshops using our new, digital, knowledge exchange platform – GSMR Virtual Academy. In the near future, we intend to use this brand, which has been launched under the GSMR umbrella, for our symposiums and conferences too.

Please share some highlights of your professional journey.

There have been many memorable moments in my career. I've had the opportunity to work on and lead some visionary projects, which have enriched my professional experience. Not to forget the many pioneering individuals that I've met in the course of my career especially at GSMR and its many premier events. Indeed, I've grown as an engineer and a human being.

Joining GSMR is one of the major highlights of my professional journey because it widened my professional circle, opened a new and ever-growing avenue of learning for me and provided me a platform to be part of a community that works tirelessly to elevate our profession in the Gulf region. Being elected as the Chairman of this Society was a truly humbling and exciting moment for me.



They say, with great authority comes great responsibility. I assure our members that I, along with their continued support and the continued support of my fellow Board of Directors, will ensure that GSMR remains the No. 1 partner for maintenance, reliability and asset management in the Gulf region, as well as strengthen the image that it has built in the last ten years.

How have the fields of maintenance, reliability and asset management evolved over the past decade? What developments can we expect in the years to come?

I believe there have been two major game changers that have transformed our profession. The first is of course technology, which has opened up an entire scope of new possibilities in the way maintenance, reliability and asset management professionals work. Increased automation, IIoT, Augmented Reality, all these facilitate a highly proactive and systematic approach.

Second, there has been a radical shift from reactive to predictive maintenance. Organizations are understanding the importance of building a culture of reliability and following a comprehensive approach to asset management. Rapid digitization and technological advancement are supporting this shift, changing the way we operate in our profession.

How would you describe your leadership style?

Strategic and transformational would best define my leadership style. I believe in following a result-oriented approach always. Planning is the most important element for success. Of course, plans will evolve along the way to suit new developments and unforeseen circumstances but we must have a roadmap. Perfection is



an illusion. Many a time, we get so engrossed in attaining it that we don't move forward. Progress, no matter how slow, is essential. As long as you're steadily moving ahead, you're on the right track. I also strongly believe that true success can be measured by how well any initiative is continued. Starting something is a noble act. However, keeping the momentum going is what defines true greatness.

Change Management is one of your areas of interest and expertise. How do you plan on bringing this expertise to GSMR.

We live and operate in such a dynamic environment. Our ability to adapt and evolve will decide how far we get. Change Management as a discipline has always fascinated me because it encompasses the most efficient and effective as well as creative ways in which a leader can prepare, support and help individuals, teams and organizations in bringing about organizational change. Having worked in the volatile Oil & Gas sector for most of my



career, I have realised the importance of always being a step ahead in the game.

Speaking of GSMR, we are at a very exciting juncture. Behind us is a glorious past and in front of us is a bright future. Undoubtedly, GSMR is ready to take this giant leap and move to the next phase of operations guided by SATP 2020-22.

What plans do you and the Board have for this next phase of the Society?

As we move on to the next phase, GSMR aspires to build on the strong foundation laid by our brothers who came before us and continue their good work. We have numerous initiatives and programs planned for the current term.

A major objective for GSMR during 2020-22 will be to launch its own Body of Knowledge. Over the past decade, we have forged great relations with our regional and international counterparts, which we will continue to build. Representing GSMR in these associations and interacting with regional and international industry professionals has helped us gain insights to the best practices in our profession. Furthermore, we have a vast and rich resource pool of professionals in the Gulf region, all of which will be instrumental in

creating GSMR's Body of Knowledge. Rapid and aggressive digitization is also at the top of our priority list.

What is your message to the members of GSMR?

I'd like to thank you all for your continuous support in all these years and express my utmost gratitude to you on behalf of the Board of Directors.

I invite each and every one of you to wholeheartedly join us on this exciting journey. GSMR's doors are always open to welcome your valuable ideas and suggestions. No matter what the situation, GSMR will continue to remain accessible and in constant communication with you through our head office and media channels.

The success of any association depends on the participation and drive of its members. The Board of Directors and Committee Chairs may be at the helm, steering GSMR to newer heights. However, the fuel that will sustain the momentum of our growth and success is you, our valued members 🚀

Sanad Program:

It's a youth development and empowerment program under which young engineers – students, fresh graduates and unemployed youth – who are GCC nationals will be shortlisted based on a carefully selected criteria and offered GSMR membership including a wide range of benefits and opportunities.



GSMR Executive Insight:

It's a webinar platform, hosting top regional and global industry professionals including CEOs, Presidents of associations and even retired individuals.



GSMR Technical Platform:

It's a webinar platform, hosting regional and international maintenance, reliability and asset management professionals.



GSMR Member Speak:

Launched as a knowledge exchange initiative, it's a popular social media campaign, where GSMR's members share their views on a wide range of topics in maintenance, reliability and asset management, as well as other related industry topics.



Asset Management : A Proactive Outlook



Saudi Aramco's Western Region Distribution Department's unique initiative, 'Excellence Path-forward' follows a well-defined top-down approach to reliability and asset management, says [Mohammed Al-Tawili](#), CMRP, CAMA, CRE, CPAM, Reliability Engineer at Saudi Aramco.

Nowadays, many big organizations are falling out from the asset management excellence platform as they are focusing more on fancy and expensive tools of predictive maintenance, IoT and Maintenance 4.0 and failing to get the basics in place. These organizations are still in their comfort zone and manage their physical assets by relying more on a reactive environment, which leads to unnecessary costs and low-performance impact.

Since 2018, Saudi Aramco's Western Region Distribution Department (WRDD) established a unique initiative, 'Excellence Path-forward', which follows a well-defined top-down approach to reliability and asset management. The philosophy of this initiative is to get the basics right and prepare for a valuable future, realizing the impact of the maintenance and reliability technology. WRDD first invested on building a culture of reliability by treating reliability like safety and involving operations, maintenance and engineering. It started to comply with Saudi Aramco Total Plant Reliability Management



WRDD wins the silver title in the prestigious 2019 Maintenance and Reliability President Awards

“WRDD won the silver title in the prestigious 2019 Maintenance and Reliability President Awards”

(TPRM); for instance, asset repair history, FRACAS, bad actor, switchover to revisit those procedures and revive them instead of them getting shelved and going unnoticed by stakeholders.

Furthermore, WRDD has implemented several violation radar systems to fix the culture and remove the silo effects among the functional team members including but not limited to lack of planning and scheduling, outdated assets hierarchy and BOM, which lead to improper quality and a high reactive culture that impacts the maintenance expenditure (OPEX) of the department.

WRDD won the silver title in the prestigious 2019 Maintenance and Reliability President Awards for these initiatives among 36 operating departments. Moreover, it has sustained and carried on its excellence journey and adopted Maintenance 4.0 and predictive maintenance, exhibiting its commitment to its vision to be a world-class distributor of high-quality petroleum products in a safe and reliable manner to its customers 🛠️

The author is GSMR's Asset Management Committee Chair.



Teamwork & Safety in Industrial Companies

Meshaal Al-Azmi, T&I Director at Saudi Aramco, shares the inspiring success story of Safaniya Onshore Producing Department's major shutdown activity.

In full compliance with Safaniya Onshore Producing Department (SONPD) Safety Management System Process, the Turnaround & Inspection (T&I), Operation, Maintenance and Engineering teams worked together diligently and managed to complete a major shutdown within 36 days, marking the accomplishment with an early start-up of four days.

SONPD's 2019 annual shutdown stipulates the inspection of the 16 equipment at Tanajib GOSP. To minimize production losses and resources utilization cost, SONPD has taken another opportunity to expand the existing shutdown to include the compressor systems at Tanajib Gas Plant with an extensive workload of additional 140 equipment. The equipment associated with the atmospheric, LPPT, pipeline and booster compressors mainly included the gas coolers, lube, seal oil reservoirs, filters, and discharge and suction drums. If these compressor systems were not included in the shutdown, each one of the eight compressors would be released separately, according to their inspection schedule, over an extended period of time, which can result in high maintenance cost and operational impact in terms of production losses. Additionally, to accommodate operational request, Tanajib GOSP scope was also expanded to include F10 and F11 hot oil furnaces, D-16 crude storage tank and F1 and F2 flare tips and pilots.

Planning & Teamwork

A team is a group of individuals that rely on one another, and through effective communication and decision making, work together toward the same goal. SONPD T&I unit allowed employees to create sufficient ideas, which enabled the workforce to split difficult tasks into simpler ones, then work together to complete them faster, which led to better productivity, reduction of operational impact and cost, thus improving profitability.

SAFANIYA ONSHORE PRODUCING DEPARTMENT
MAINTENANCE SERVICES DIVISION
MAINTENANCE SERVICES ENGINEERING & T&I UNIT

RADIATION SURVEY REPORT

Survey date: **13th AUGUST 2020** Time: **09:30 hrs.**

Department: **SAFANIYA ONSHORE PRODUCING DEPARTMENT / MAINTENANCE SERVICES ENGINEERING & T&I UNIT**

Surveyor(s): **MMQ**

Survey Meter Identification: **TRACERCO-170693/PR170773/PR170604**

Calibration due Date: **15th March-2021**

Battery and Other Checks: Satisfactory Not satisfactory: Not Applicable: NA

Facility	Item Surveyed	Background Level (µSv/hr)	Exposure Reading (µSv/hr)	Remarks
Safaniya GOSP 369	Crude Oil Storage Tank T-6	0.019	0.011	No norm waste found



Safety Initiatives (2); page14



Safety Initiatives (1); page14

Completing such a shutdown on a tight schedule in a timely manner could only be possible with proper planning and team work. Planning and preparation activities started 12 months ahead, which helped the teams identify project critical path, bring all

required material together, pull the resources in a timely manner and obtain the service contracts. Several meetings were conducted one year ahead of the shutdown to review readiness in terms of documentation, material, manpower and contracts. Operation, T&I, Maintenance, Compliance, Inspection teams supported by multiple contractors turned this shutdown into a success tier.

“In full compliance with SONPD Safety Management System Process, the teams completed a major shutdown within 36 days, marking the accomplishment with an early start-up of four days.”

Creating a Culture of Safety

Workplace safety is the working environment at a company and incorporates all factors that impact the safety, health and wellbeing of employees. This includes environmental, chemical, physical, and psychological hazards.

SAFANIYAH ONSHORE PRODUCING DEPARTMENT MAINTENANCE SERVICES DIVISION T & I PLANNING & EXECUTION UNIT			
T&I DAILY SITE INSPECTION CHECKLIST			
Date:	8/10/2020	Time:	8:10 AM
Area:	569-162	Conducted by:	AI
WHICH TYPE OF WORK PERMIT			
1. Release of Hazardous Liquids or Gases	SA FORM (924-1) YELLOW	<input type="checkbox"/>	
2. Hot Work	SA FORM (924-2) RED	<input type="checkbox"/>	
3. Cold Work	SA FORM (924-3) BLUE	<input checked="" type="checkbox"/>	2843252
4. Confined space entry	SA FORM (924-4) GREEN	<input type="checkbox"/>	To do the housekeeping / Hand tools.
IN AN EMERGENCY, STOP WORK GO TO ASSEMBLY AREA IMMEDIATELY			
S.NO	ITEM	YES	NO
1	Supervisor (Workpermit receiver) available at site.	<input checked="" type="checkbox"/>	
2	Employee wears hard hat, hard toe safety shoes, safety glasses/goggles and safety harness with lanyard for all tasks above 6 feet (1.8 meters).	<input checked="" type="checkbox"/>	
3	Employee barricades area, installs warning signs and clears site of personnel working task.	<input checked="" type="checkbox"/>	
4	Employee communicates lockout plan with affected personnel before isolating equipment.	<input checked="" type="checkbox"/>	
5	Employee de-energizes, locks, and tags energy control device then tries the equipment to determine if it will operate.	<input checked="" type="checkbox"/>	
6	Employee inspects air hose for safe working condition to include use and placement of retaining pins or whip checks.	<input checked="" type="checkbox"/>	NA
7	Employee ensures tools and equipment are right for this job, in good condition, and he is trained and authorized in their use.	<input checked="" type="checkbox"/>	
8	Employee ensures grounding is installed or present.	<input checked="" type="checkbox"/>	
9	Employee ensures confined space login sheet is available and that entries are correct.	<input checked="" type="checkbox"/>	NA
10	Employee ensures gas test is completed prior to entry.	<input checked="" type="checkbox"/>	
11	Employee ensures air blower is running prior to entry.	<input checked="" type="checkbox"/>	NA
12	Employee keeps eyes on path of travel and/or task being done with his hands.	<input checked="" type="checkbox"/>	
13	Employee ensures toe minway platform is secure and the guide bar has not been removed.	<input checked="" type="checkbox"/>	
14	Employee maintains three-point contact with hands and feet while ascending/descending stairs or ladders, or mounting/dismounting equipment.	<input checked="" type="checkbox"/>	
15	Employee notifies affected personnel before removing locks and tags and returning system to normal operating condition.	<input checked="" type="checkbox"/>	
16	Employee conducts good house keeping and cleans area after work completed.	<input checked="" type="checkbox"/>	
17	Employee uses grounded compressors (WFO).	<input checked="" type="checkbox"/>	NA
18	Employee treats fire hazards properly (especially diesel tank on site).	<input checked="" type="checkbox"/>	
19	Employee cleans up spills immediately.	<input checked="" type="checkbox"/>	
20	Employee tidies up the cables and routes them through safe areas.	<input checked="" type="checkbox"/>	
21	Employee eliminates the fire hazards.	<input checked="" type="checkbox"/>	
22	Employee keeps a copy of isolation procedure on site.	<input checked="" type="checkbox"/>	
23	Employee isolates the equipment using isolation valves and uses hold tags.	<input checked="" type="checkbox"/>	
24	Employee makes sure that all blinds, inlets and outlets are in closed position.	<input checked="" type="checkbox"/>	
25	Employee covers all drains and controls all ignition sources.	<input checked="" type="checkbox"/>	
26	Employee checks scaffold tags.	<input checked="" type="checkbox"/>	
27	Employee works with fall protection equipment on the scaffolds (if yellow tag is there).	<input checked="" type="checkbox"/>	NA
28	Check all the inspection tags, stickers and make sure that the validity of expiry date.	<input checked="" type="checkbox"/>	
Special Note: Employees make ensure that keep the fire extinguisher, fire hose reel and all fire fighting equipment.			

Safety Initiatives (3); page14

SAFANIYAH ONSHORE PRODUCING DEPARTMENT
MAINTENANCE SERVICES DIVISION
T&I PLANNING & EXECUTION UNIT

السلامة والسلامة
Saudi Aramco

FILIPINO

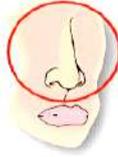
PAKSA: H2S SAFETY AND PRECUTIONS

Pangunahing Mga Punto

Ang hydrogen sulfide ay isang sobrang nakakalason na gas na walang kulay, nasusunog, mas mabigat kaysa sa hangin, natutunaw sa tubig, at may amoy ng mga bulok na itlog sa mas mababang konsentrasyon.



Sa mas mataas na konsentrasyon H2S maaaring patayin ang iyong pakiramdam ng amoy.



The Nose

Pagsubaybay

Ang pagsubaybay sa hangin ay dapat gawin anumang oras mayroong potensyal para sa isang tao na malantad sa PEL ng H2S.



T40 RATTLER (H2S DETECTOR)

SAFANIYAH ONSHORE PRODUCING DEPARTMENT
MAINTENANCE SERVICES DIVISION
T&I PLANNING AND EXECUTION UNIT

السلامة والسلامة
Saudi Aramco

MALAYALAM (മലയാളം)

SAMIR ശുപാർശകൾ

ഒരു സൗജ്ജ്വലനം അല്ലെങ്കിൽ മേജർ സംഭവം ശുപാർശ (സമീർ), ഈ സംഭവത്തിൽ നേരിട്ട ഇടപെടൽ കമ്പനി സമാപനങ്ങൾക്ക് നീട്ടാനാകും, തീരുത്തൽ നടപടികളിൽ നിന്ന് പ്രയോജനം ചെയ്തെടുക്കാനുള്ള സാധ്യതകളുമായി പഠിച്ച പാഠങ്ങൾ പങ്കിടാനുള്ള ഒരു മാർഗ്ഗമായി (ഗ്രീൻ 6.003 സംഭവം അനുഭവം), ശുപാർശയുടെ ഉദ്ദേശ്യവും അപ്രകാരമുള്ള ഉദ്ദേശ്യവും അടങ്ങുന്നതാണെന്ന് ശുപാർശ അനുഭവത്തിൽ, സംഭവവുമായി ബന്ധപ്പെട്ട ഒരു സമാപനത്തിന്റെ അനുബന്ധമായി ആയിരിക്കണമെന്നില്ല. ഈ ശുപാർശകളായി ഒരു ഇംഗ്ലീഷ്-മെൻ്റോർ ഷാൻ വികസിപ്പിച്ചെടുക്കുന്നതിന് പിന്തുണയ്ക്കുന്നതിനുള്ള എൽപിഡി എൻഐ ഓഫീസുമായി ബന്ധപ്പെടുക.

കണ്ടെത്തലുകളും ശുപാർശകളും

കണ്ടെത്തൽ - 1

ഒരു കാര്യക്കാരൻ ഒരു ആശയവിനിമയ ടവറിൽ ബോൾട്ട് ടെൻഷനിംഗ് പ്രവർത്തനങ്ങൾ നടത്തുകയാണിരിക്കുന്നത്. അയാൾ സ്വയം വീണ്ടും സ്വയം വേർപെടുത്താൻ, താൻ സ്വയം സ്വയം വിട്ടുനിന്ന്, ശുപാർശയിൽ നിന്ന് അഴലിപ്പിക്കുക, ഏകദേശം 35 മീറ്റർ നിലത്ത്, മാരകമായ പരിഷ്കരണങ്ങൾ ഉണ്ടായിട്ടുണ്ട്. ഈ സംഭവത്തെ ഒരു പ്രധാന റെക്കോർഡ് സംഭവമായി പരിശീലിക്കാൻ, റെക്കോർഡ് ചെയ്യാൻ ഫോട്ടോ, എൽപിഡി ഓഫീസിൽ 2 ഉടൻതന്നെ സിംഗിൾ ഫോട്ടോ എടുക്കണം.

ശുപാർശ - 2

അംഗീകൃത വർക്ക് മെന്റോർ/സൂപ്പർവൈസർ/എൻഐഡി-യിൽ തിരിച്ചറിയപ്പെട്ടിട്ടുള്ള ഉയരം 6 ഫീറ്റ് കെട്ടിപ്പിടിക്കാൻ എക്സിറ്റ് മെന്റോർ പ്രവർത്തനത്തിനനുസരിച്ച് എല്ലാ കോൺട്രാക്ടർ ഫീൽഡ് പ്രവർത്തനങ്ങളും നിർവ്വഹിക്കപ്പെടുന്ന കാര്യം പരിശോധിച്ചുവെക്കുന്നതിന് ഒരു ഓഡിറ്റ് നടത്തുന്നതിന് ഡിപ്പാർട്ട് മെന്റ് എല്ലാ തീരുത്തൽ നടപടികളും നടപ്പാക്കുക.

ശുപാർശ - 5

സൈറ്റ് സൂപ്പർവൈസർമാരുടെ ഫലപ്രദമായ നിരീക്ഷണവും ആശയവിനിമയ ഉപകരണങ്ങളും ഉൾപ്പെടുത്തുന്നതിനുള്ള ഉയരം കൂടിയ പ്രവർത്തനങ്ങളിൽ പ്രവർത്തിക്കുന്ന അപായത്തിലൂടെയോ മേഖലകൾ (ഉദാ: നിലം നിർമ്മാണങ്ങൾ, ജിഎ, ഇടവു, സിംഗിൾ എൻഐ) പൂർണ്ണമായിരിക്കുന്നതിനുള്ള ഡിപ്പാർട്ട് മെന്റ്. എല്ലാ തീരുത്തൽ നടപടികളും നടപ്പാക്കുക.

Safety Initiatives (4); page14

This challenging shutdown scope was implemented under the continuous site safety supervision of multiple teams streamlined by the T&I director to ensure all activities including depressurization,

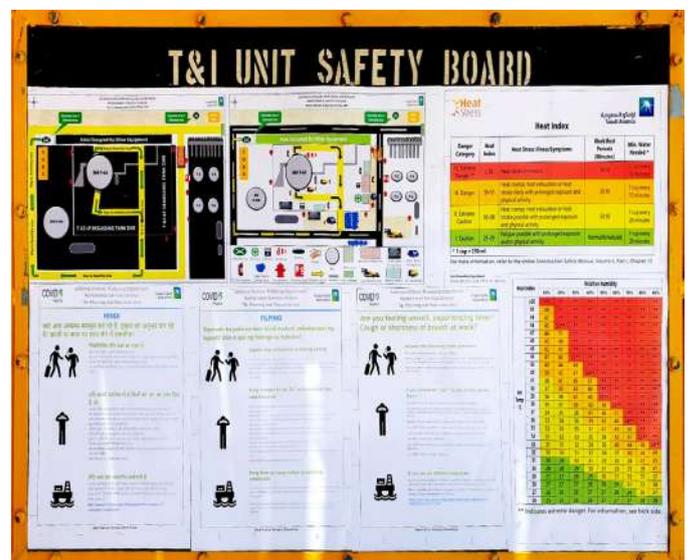
Continued on page 14

draining, purging, tandem lifting, scaffolding, blind swinging, mechanical and electrical isolations, abrasive blasting, hydro testing and various other T&I and maintenance works are performed safely. In addition to each and every employee sharing the responsibility of safety, a dedicated safety team comprising 12 officers, engineers and field coordinators inspected the job sites, performed safety observations and corrected the unsafe acts and conditions to enhance compliance levels to ensure Saudi Aramco safety standards and expectations are met.



Safety Initiatives (5)

To comply with the Operational Excellence process OE 11.3 "Emergency Preparedness," SONPD conducted four drills (announced and unannounced combined) to test contractor employee readiness in terms of evacuation and response, and introduced a vertical rescue device compatible with specific stretchers to be used in evacuation from spheres



Safety Initiatives Taken:

- Deployed the flange tag system (1)
- Launched a dynamic safety observation program
- Implemented a waste management program
- Implemented a NORM program (2)
- Developed and utilized task specific safety checklists (3)
- Conducted 14 safety trainings and Tool Box Talks
- Used six different languages to communicate Tool Box Talk, Safety Meetings and lessons learned (4)
- Used document holders at job sites for work permit documentation
- Marked the worksites with evacuation routes written in six different languages (5)
- Used site safety plans to ensure T&I equipment and material are spaced safely

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