**Safe Work Requirement**

Rig Emergency Response Procedure

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| INDUCTIONSPurpose The purpose of this emergency response plan is to ensure a quick, effective and appropriate response to emergencies in order to safeguard ECDC rig personnel and equipment. This plan is developed to ensure the following priorities for any emergency that may arise:   1. Safeguard life, prevent harm to people 2. Protect ECDC and contractor assets 3. Protect the environment 4. Resume normal operations as soon as possible 5. Maintain the ECDC and contractor image   In carrying out the above, ECDC and contractor will at all times ensure full compliance with all laws and statutes of Arab Republic of Egypt. Rig Communications Communications are vital to effective emergency response. A summary of rig communications both internal and external is preferred.   1. Mobiles 2. Satellite Units 3. Hand Held Radios 4. Internet 5. P.A system 6. Etc  Rig Alarms & Actions to be taken  1. **Fire**   Sound of Fire alarm ***with red light in alarm stations, and driller give two air horn alarm of 10 seconds each.***  Actions to Take:   1. All personnel except the on duty rig crew shall proceed to the Muster Point, rig manager go to rig floor. 2. On duty rig driller shall make the well safe and report the well condition to Company Man/Rig Manager. 3. Fire team wear fire unit, team leader take hand hold radio to keep a good communication. Fire team take fire fighting apparatus to put out the fire. 4. Radio operator conduct head count, rescue team is ready at assembly point. 5. After R/O report to OC, if have somebody missing, rescue team is send out to look for IPs with stretcher by OC. 6. Rescue team transfer the IP to muster point. And medic check the condition for IP. 7. Fire team, rig manager and rescue team report to OC at assembly point. 8. **Kick/Blow out**   Sound of Kick Alarm (buzzer) ***20 Second Long Alarm From Driller horn.***  Actions to Take:   1. All personnel except the response team shall proceed to the upwind muster point, rig manager go to rig floor. 2. Response team shall make the well safe, and driller report to rig manager on rig floor. 3. Radio operator conduct head count, rescue team is ready at assembly point. 4. After R/O report to OC, if have somebody missing, rescue team is send out to look for IPs with stretcher by OC. 5. Rescue team transfer the IP to muster point. And medic check the condition for IP. 6. Response team, rig manager and rescue team report to OC at assembly point. 7. **H2S Gas**   Sound of H2S alarm ***with yellow light in alarm stations, and driller give one 20 seconds air horn alarm.***  Actions to Take:  **For a gas release, the objective is to proceed to the upwind muster station, however, personnel should go crosswind to the site boundary before turning to go upwind.**   1. All personnel except the H2S response team shall proceed to the upwind muster point, rig manager go to rig floor with SCBA. 2. H2S Response team shall done SCBA and make the well safe, and driller report to rig manager on rig floor. 3. Radio operator conduct head count, rescue team is ready at assembly point. 4. After R/O report to OC, if have somebody missing, rescue team don SCBA and is send out to look for IPs with stretcher by OC. 5. Rescue team transfer the IP to muster point. And medic check the condition for IP. 6. H2S response team, rig manager and rescue team report to OC at assembly point. 7. **Spill**   **Sound of spill alarm with three 10 seconds air horn alarm by driller.**  For CHEMICAL SPILL, actions to take   1. Raise the alarm. Evacuation of Site Personnel from localised area to muster areas, Use Safety Shower to decontaminate exposed employee. 2. Pill Response Teams muster at Central Control Room for briefing, then Response Teams with right PPE shall proceed to spill site. 3. Run out fire hoses. Use water from fire system to dilute chemical. Keep substances damp using water spray. Do not touch spilled material. Use water spray curtain to divert vapor drift. 4. Spill response team to dilute chemical with water and mop up, or absorb with an inert dry material and place in an appropriate hazardous waste disposal container. 5. For OIL SPILL, actions to take 6. **ENSURE** the leak has been isolated or efforts made to reduce it. 7. **ESTABLISH:**   -Cause of oil spill / gas leak;  - Potential for fire or explosion;  - Potential danger to personnel;  - Potential damage to nearby pipelines and/or equipment;  **-** Potential damage to the environment.   1. **TAKE** steps to contain spill from spreading. 2. **CONSIDER** igniting leak. 3. **CALCULATE / ESTIMATE** size of the spill or leak.   ***IF land based oil spill:***   1. **ENDEAVOUR** to prevent leak from reaching process areas, public areas or the sea. 2. **PREVENT** sources of ignition from entering area of spill and downwind (e.g. vehicles). 3. **CONSIDER** need to erect road blocks to prevent public access downwind of leak. 4. **INFORM** local police of nature, location and severity of emergency. 5. **FORMULATE** clean-up plan refer to Client HSE requirements. 6. **ESTABLISH** collection and clean-up procedures 7. **Seriously Injured Person**   Seriously injured can be defined as “a casualty who has a life threatening injury”. There will be a security team on site at all times and initial medical response can be provided by the Rig medic.   1. Shut down non rig operations 2. Implement the Client notification process 3. Provide initial treatment to the casualty 4. Wait on Client support & implement ECDC ER Plan notification processes  RESPONSE and Organisation    Rig Site Organization Roles that are covered by this Emergency Response Plan:   1. Drilling supervisor (On Scene Commander) OC 2. Rig Manager 3. Tool Pusher 4. Nurse 5. Field safety engineer(FSE) 6. Radio operator 7. Driller 8. Assistant Driller(AD) 9. Derrick man(DK) 10. Floor man 11. Roustabout 12. **Drilling supervisor**   The Drilling supervisor will be the On Scene Commander (OC) and The On-Scene Commander is responsible for exercising authority over every aspect of tactical field response operations and must ensure they are carried out in a safe, effective, and efficient fashion. The On-Scene Commander  receives direction from, works for, and reports to the Operations Section Chief.   1. **Rig Manager**   Manages ALL Movements Of RIG Personnel And Equipment When Instructed By RIG Site Supervisor (OC). Serves as A/OC, In Absence of RIG Supervisor. At ANY Alarm, He Moves To Rig Floor to Ensure Well Secured and Persons Safe. Then report to OC.   1. **Tool Pusher**   Reports to SBA at Alert. Support OC in Absence of RM for Deployment of Required TRTs. Serves As RM In Absence Of RM And Manage RM Roles. Serves as Response team leader and report to OC.   1. **Rig Nurse**   Upon ANY Alert, Report To SBA With Medical Triage Equipment And Set Up Triage Station/Assign First Aiders. Inform Client Medical Services Direct, If IPs Reported, Inform OC Of Contact And Status Of IPs As Delivered To Triage Station. Continue Care Until Ambulance Arrives For Evac.   1. **Field safety engineer**   Upon ANY Alert, Assist HO In Delivery Medical Equipment To SBA. Develop And Maintain Log Of Events.   1. **Radio operator**   Report to SBA and Wait to Instruction of OC. Serve as Communications Officer, For OC at Request. Conduct HeRIGunt, Report to OC of Outcomes and Any Details of Reported Missing Persons.   1. **Driller**   Upon ANY Emergency Alert, Secure Well And Ensure All Personnel On Floor Safe. Record well condition to RM or TP, when they report to rig floor.   1. **Assistant Driller**   Report To SBA, Serve As Rescue team leader.   1. **Derrick man**   Response as Rescue Team member. In absence of AD, serves as Rescue team leader.   1. **Floor man**   Response as response team member.   1. **Roustabout**   Response as Rescue Team member. Rig Emergency Response Teams The members of Emergency Response Team are shown in the below table for different emergencies.   |  |  |  |  | | --- | --- | --- | --- | | **S.NO** | **FIRE TEAM** | **WELL KICK** | **H2S Response TEAM** | | 1 | Assistant driller | Tool Pusher | Tool Pusher | | 2 | Derrick man | Driller | Driller | | 3 | Floor man | Floor man | Floor man | | 4 | Floor man | Floor man | Floor man | |  | Floor man | Floor man | Floor man |  |  |  |  |  | | --- | --- | --- | --- | | S.NO | SPILL | RESCUE TEAM | N/A | | 1 | Tool Pusher | Medic | N/A | | 2 | Assistant driller | Assistant driller | N/A | | 3 | Roust About | Roust About | N/A | | 4 | Roust About | Roust About | N/A | | 5 | Roust About | Roust About | N/A |  Emergency Organisation The organization will maintain liaison with Client and will ensure that any Media, Public or Government communications regarding the emergency are in line with the Communications Strategies defined by the Client.  捕获  新建 Microsoft Office Publisher 文档 (2).jpg Responsibilities    Drilling supervisor（OC）  1. Proceed to the muster point 2. OC Must Establish Site Management and Control 3. Responsible for exercising authority over every aspect of tactical field response operations and must ensure they are carried out in a safe, effective, and efficient fashion 4. Reports to the Operations Section Chief  Rig manager  1. put on self contained breathing apparatus（H2S DRILL） 2. Proceed to the rig floor with appropriate communications 3. Assist with and confirm the well is secured 4. Receive the shut in pressure readings  Tool Pusher (On Shift)  1. Proceed to the designated safe area with appropriate communications 2. Assume the role of the on scene commander 3. Serves As RM In Absence Of RM And Manage RM Roles 4. Serves as Response team leader  Nurse  1. Report to the Muster Area & confirm present 2. Await on instructions of the OC 3. First aid and contact with client nurse resource when need 4. Prepare clinic for casualties 5. Have stretchers and first aid kit available 6. First aid and contact with client nurse resource when need  FSE  1. Proceed to the muster location 2. Take list of Persons on Site or ensure site coordinator take the list 3. Provide support to the on scene commander 4. Provide support to the Nurse if needed 5. \_ Develop And Maintain Log Of Events (English, Ink, Time And Date Stamped).  Radio operator  1. Report to the Muster Area & confirm present 2. Head counting and find the missing personnel NO and report to OC 3. Await on instructions of the OC 4. Assist to the Nurse  Driller  1. Secure Well And Ensure All Personnel On Floor Safe. 2. Record the shut in pressure readings， 3. Proceed to the muster point 4. Report the well condition and readings to OC  ASSISTANT Driller  1. Serve As Fire Team Leader 2. When fire occurred，lead to fire team to put out the fire directly 3. Proceed to the muster point 4. Report to OC  Rescue Team  1. Report to the Muster Area & confirm present 2. Await on instructions of the OC 3. Instruct ambulance driver to standby and check ambulance for casualties 4. Have stretchers available 5. Rescue the missing personnel with the proper tools to the muster point（if Have H2S,They need to wear SCBA first）  Fire Team  1. All the members get kitted up with fire suits or BA 2. Go to the fire place to put out the fire following the OC instruction directly 3. Proceed to the muster point 4. Report to OC  H2S well control team  1. All team members Wear SCBA IF [necessary](file:///C:\Users\GW164\AppData\Roaming\asus\AppData\Local\Yodao\DeskDict\frame\20151228171043\javascript:void(0);)（H2S） 2. The Driller and 2 Floor men are to secure the well in accordance with RIG Drilling Operatiing Procedure (DOP) directly 3. Read the pressure reading 4. Proceed to the muster point 5. Report to the OC 6. Stand by on the muster point and wait for OC instruction  Emergency number |