



BAYSWATER



**ENVIRONMENT, HEALTH & SAFETY
CONTRACTOR EXPECTATIONS
MANUAL**

**Prepared by: Bayswater EH&S
Committee**

Version 3.3 Effective Date: November 11, 2021

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PURPOSE

The information provided within this manual is advisory in nature and is not intended to represent or replace each individual Contractor's EHS program or management system. BAYSWATER expects that our Contractors will train, supervise, and direct their employees to work in a safe and environmentally conscientious manner while performing services on BAYSWATER sites. This manual does not address, and is not intended to assume responsibility for, the contractor's duty to provide safe working conditions and practices for their employees. In particular, all contractors working on BAYSWATER sites are solely and fully responsible for ensuring their employees, contractors, and agents comply with all applicable OSHA, DOT, EPA, state and local regulations. Contractors are required to be knowledgeable about all OSHA regulations applicable to their trade or industry and will assume sole responsibility for directing and controlling OSHA compliance for their employees, sub contractors, and agents. Nor does this manual intend to replace or limit HSE requirements imposed by federal, state, or local laws or to preempt standard industry practice. Rather, it is provided solely to communicate BAYSWATER's general EHS expectations to contractors in a consolidated fashion.

In regard to environmental matters, this manual simply highlights Bayswater's expectations of certain environmental practices and is not intended to comprehensively cover all environmental requirements. Again all contractors are required to develop their own environmental programs tailored to the specific activities they conduct.

BAYSWATER's Contractor Expectations Manual for Environmental, Health & Safety (*EHS*) is intended to provide our Contractors, Subcontractors, and all other service providers with our health, safety and environmental-related expectations while working on BAYSWATER job sites. This manual highlights some of the key regulatory requirements, and indicates where BAYSWATER has protocols which may be more stringent than existing regulation. BAYSWATER also maintains a comprehensive company EHS program, which is specifically intended to provide effective internal guidelines for protecting BAYSWATER employees and the environment surrounding our operations.

Bayswater's Contractor EHS expectations are based on existing regulations, industry standards, and Bayswater's experience as an oil & gas operator, and are intended to support and be used in conjunction with the Contractor's own EHS program. In order to meet Bayswater's expectations, the Contractor should identify industry standards and regulations herein which are applicable to their services, integrate their own safety and health procedures, and assure their operations account for all pertinent procedures based on the services rendered.

Contractors are expected to meet or exceed the recommended practices outlined in this manual; the Contractor's own EHS manuals, and any applicable Federal, State and Local regulation, **whichever is most stringent**.

BAYSWATER expects Contractors to comply with all applicable standards and regulations during all phases of its performance of services. Pursuant to the terms and conditions of the Master Service Agreement between BAYSWATER and Contractor, the Contractor will be responsible for any loss or damage incurred on the site or any other loss or claim arising due to Contractor's alleged or actual failure to meet all Federal, State or Local regulations.

SCOPE

These expectations are applicable to all Contractors and Subcontractors who provide services and/or deliver goods to BAYSWATER sites.

FOREWARD

Much of BAYSWATER's success depends on the valued services provided by our Contractors and Subcontractors. While working for BAYSWATER, Contractor's services are typically rendered on private or government property, the rights of which BAYSWATER has acquired through various lease agreements. Due to this fact, combined with our company goals and our stakeholders' expectations, BAYSWATER has a strong commitment to surface owners to assure our operations are conducted in a safe and environmentally conscientious manner. In an effort to fulfill this commitment BAYSWATER needs the assistance of our Contractors.

Bayswater's first bottom line rule is that regardless of any operational urgency or importance, work at BAYSWATER facilities should **not** be conducted at the expense of safety, the environment, or the health of workers or public. BAYSWATER expects its Contractors to take appropriate measures to protect all persons and property and to comply with all applicable Federal, State, & Local Regulations.

It is expected that all Contractors review Bayswater's Contractor Expectations Manual for Environmental, Health and Safety (*EHS*) with their respective employees, consultants, agents and Subcontractors, and acknowledge their understanding of the expectations within by signing the **Contractor Acknowledgement Forms attached** (*i.e. Refer to Appendix A*). In order to meet these expectations, the Contractor is to follow their own safety program and examine the related standards and regulations applicable to the services they provide, contained in this manual.

Should any doubt arise as to the meaning or interpretation of these expectations, the Contractor shall be responsible for consulting with an Authorized BAYSWATER Representative.

BAYSWATER is proud of its commitment to providing a safe workplace and to performing its business in a manner that protects the environment and property of others.

Thank you for your commitment to these principles and to providing safe and efficient services to BAYSWATER. Concerns regarding violations or other EHS concerns can be reported in confidentiality and directly to any member of the BAYSWATER EHS committee:

Steve Struna	James Melrose
Jeff Overman	Kevin Kane
Robert Carney	Ryan Kaminky
Brad Rogers	Andy Verbonitz

Bayswater main office: (303)-893-2503

Bayswater emergency: (720)-515-2297

ACRONYMS

ANSI – American National Standards Institute

API – American Petroleum Institute

CFR - Code of Federal Regulations

CPR - Cardiopulmonary Resuscitation

DOH – Department of Highways

DOT – Department of Transportation

EHS – Environmental, Health & Safety

FMCSA – Federal Motor Carriers Safety Administration

HAZWOPER – Hazardous Waste Operations and Emergency Response

IADC – International Association of Drilling Contractors

SDS – Safety Data Sheet

SIMOPS – Simultaneous Operations

MSDS – Material Safety Data Sheet

OSHA – Occupational Safety & Health Administration

Well CAP – Well Control Accreditation Program

DEFINITIONS

Authorized BAYSWATER Representative

Member of BAYSWATER EHS committee, Field Operations personnel (*Production, Drilling, Completions, or Construction*) overseeing the work site holding one of the following titles (*Manager, Supervisor, Lead, Foreman, Coordinator, lease operator or wellsite consultant*).

Code of Federal Regulations

The official annual compilation of all regulations and rules promulgated during the previous year by the agencies of the United States government, combined with all the previously issued regulations and rules of those agencies that are still in effect.

Contractors

Any person, company, or other entity that contracts with BAYSWATER to provide services other than “office or administrative services” shall be considered a Contractor, and shall include, but not be limited to, reclamation companies, service companies, trucking companies, independent truck drivers, seismic companies, drilling companies, companies providing well completion services, construction companies, gas compression equipment providers, artificial lift equipment providers, general production service suppliers, suppliers and companies providing general field maintenance services. The term shall also include all subcontractors, agents, employees or representatives of a contractor.

SDS (MSDS)

Safety Data Sheet or Material Safety Data Sheet - Form with data regarding the properties of a particular substance. It is intended to provide workers and emergency personnel with procedures for handling or working with that substance in a safe manner, and includes information such as physical data (*i.e. melting point, boiling point, flash point, etc.*), toxicity, health effects, first aid, reactivity, storage, disposal, protective equipment, and spill- handling procedures.

BAYSWATER

Company and its affiliates, joint ventures, partners, and each of their respective directors, officers, employees, representatives and agents.

Pre-Job Meeting Form

Safety management tool used to define, control, and communicate hazards associated with a certain process, job task, or procedure.

Subcontractors

A party that a Contractor engages to perform all or a part of the work to be performed.

OSHA State Run Programs

Section 18 of OSHA Act - States must set job safety and health standards that are "at least as effective as" comparable federal standards. States have the option to promulgate standards covering hazards not addressed by federal standards.

GENERAL HSE REQUIREMENTS

ACCESS / EGRESS & EMERGENCY RESPONSE

All routes of access and egress from site facilities should be kept clear of obstructions at all times. Obstructions include vehicles, equipment, trash, power and phone lines, temporary living quarters, and other materials or equipment. All vehicles should be parked properly in designated areas to allow access/egress to the facility.

BAYSWATER expects its Contractors to develop, implement, and enforce their own emergency response plan appropriate for the type of services they perform. Access to such a plan should be made available to all personnel working at a site when and where these services are rendered. The plan should contain a list of all applicable ambulance, fire, police, and sheriff telephone contacts, in addition to all pertinent BAYSWATER and Contractor emergency contact names and phone numbers.

BAYSWATER expects Contractors operating simultaneous operations (SIMOPS) to have a mutually agreed upon and unified procedure for handling emergencies and evacuations from the site. (*Refer to page 28 and appendix E for more information on SIMOPS expectations*).

BAYSWATER expects the Contractor to ensure all applicable emergency equipment (*i.e. spill kits, fire extinguishers, first aid kits, & etc.*) on the site are proper for the work to be performed, readily accessible, and in good working condition. All individuals working on the site should know the location and proper use of this equipment.

ALCOHOL, DRUGS AND FIREARMS

BAYSWATER prohibits the use and possession of illegal drugs, marijuana, alcoholic beverages and the misuse of prescription and over-the-counter medications on its sites. BAYSWATER expects the Contractor to develop, implement, maintain and enforce an alcohol, drug, and substance abuse policy consistent with this prohibition and applicable federal, state, and local law.

BAYSWATER expects the Contractor to ensure that no worker or subcontractor enters or remains on any BAYSWATER site whenever the worker or subcontractor is affected by alcohol or drugs. BAYSWATER expects the Contractor to have appropriate policies and procedures for its employees and third party visitors to ensure that such expectations are met, including, for example, disciplinary and other employment policies that address these issues. BAYSWATER requires all contractors to maintain a post incident drug testing policy, at a minimum for all recordable incidents.

Firearms are not permitted at any BAYSWATER sites without prior BAYSWATER Representative notification and approval.

All Contractor vehicles and equipment located on BAYSWATER property or leases are subject to unannounced searches and seizures for illegal drugs, marijuana and alcoholic beverages and/or unauthorized firearms.

ASBESTOS

In the event a contractor unexpectedly encounters BAYSWATER piping or equipment that is suspected to contain asbestos in any form, BAYSWATER expects to be notified immediately. Affected equipment may include; pressure vessels, building insulation, underground piping including the exterior coating or wrapping of the pipe. Upon initial discovery of suspected asbestos at a BAYSWATER facility, contractors should cease work immediately and notify an Authorized BAYSWATER Representative of the situation. Precautions should be taken to stop all excavation or construction related activities in the immediate work area until an accurate determination can be made as to the composition of the pipe coating or equipment, and appropriate handling procedures.

BAYSWATER will make a determination as to the composition and condition of the material in question. If BAYSWATER deems necessary, the material will be sent out to a state certified laboratory for testing. If test results show that the material does not contain asbestos, work at the facility may resume under the direction of an Authorized BAYSWATER Representative. If the material tests positive for asbestos, then the work area will be classified as a known ACM (*Asbestos Containing Material*) area, and the BAYSWATER Environmental Specialist will take over management of the project.

CELLULAR PHONE AND HANDHELD RADIO USE

BAYSWATER expects cellular telephones and handheld radios will be used only when it is safe, prudent, and necessary to do so. The Contractor is expected to assess the risk of accepting or sending transmissions from a cellular phone or handheld radio, including but not limited to, distraction while driving, ignition source during perforating operations, and ignition source in the presence of flammable/combustible liquids or vapors. Drivers may not use cellular telephones (including 'hands free') while on Bayswater premises unless properly parked.

COMPRESSED GAS CYLINDER

BAYSWATER expects the Contractor to properly label, handle, store, transport, and inspect all compressed gas cylinders to ensure compliance with applicable regulations and industry standards.

All compressed gas cylinders should be returned promptly to the storage area after use. Protective caps should be placed over the cylinder valves when not in use or when the cylinders are being transported by any means. Compressed gas cylinders should be stored in the upright position and secured to a stationary object or structure.

Compressed gas cylinders should be kept away from heat, including direct

sunlight, fire, or electrical lines. Cranes may not transport compressed gas cylinders unless a special carrier is used.

Acetylene or liquid gas cylinders should never be operated in a horizontal position, as the liquid may be forced out through the hose causing a fire hazard or explosion.

CONFINED SPACE ENTRY (NON-PERMIT & PERMIT REQUIRED)

BAYSWATER expects Contractors to be trained and certified prior to performing any type of confined space entry work at our sites. Contractor employees should be trained per the OSHA requirements of 29 CFR 1910.146. BAYSWATER encourages contractors to consider optional methods to complete work so as to eliminate the need for permit required confined space entry (*i.e. declassification through elimination of potential hazards*). In addition, BAYSWATER requires non-permit and permit required confined space entry work be done with the prior approval of an Authorized BAYSWATER Representative following the completion of Bayswater's Confined Space Entry Checklist (*i.e. Refer to Example in Appendix B*). Once the checklist has been completed the Contractor should utilize their company Confined Space Entry Permit in order to complete the required task; if necessary. However, if the Contractor's Permit is not available BAYSWATER has provided an example Confined Space Entry Permit (*Refer to Example in Appendix B*) which may be utilized.

Contractor Entry Team Training should consist of the following:

- Atmospheric Air Monitoring (*i.e. Four Gas Detector – CO, O₂, % LEL, H₂S*)
- Respiratory Protection (*Permit Required Confined Space Entry Only*)
- Confined Space Entry
- First-Aid and CPR
- Emergency Rescue (*Permit Required Confined Space Entry Only*)
- Site Specific Training

Additional training and certification, such as High Angle Rescue, Detection and Control of Flammable Substances maybe required depending upon the nature of the permit required confined space work to be performed. All of these aspects should be identified and discussed with an Authorized BAYSWATER Representative prior to commencing confined space entry work.

CRANES, HOIST, & OTHER LIFTING EQUIPMENT

BAYSWATER expects only competent, trained, and qualified workers may operate lifting equipment (*i.e. forklifts, man lifts, work platforms, or etc.*) according to OSHA 29 CFR 1910.Subpart F & Subpart N.

Prior to performing lifts with cranes, hoist, derricks, or other lifting equipment, the equipment operator should determine the weight of the object to be lifted and ensure that cables, lifting equipment, slings, wire ropes, chains, and hooks are of sufficient strength and in proper condition to support the weight of the load. For critical lifts with a crane, derrick, or hoist, written lifting procedures complete with

load charts should be prepared and reviewed by the Contractor per OSHA's 29 CFR 1926 Subpart N requirements for Cranes, Derricks, & Hoist. Lifting equipment operators should conduct a visual inspection of equipment prior to commencement of work. These inspections are to determine if the equipment is capable of performing the work and to ensure that the equipment will not be operated beyond its design capabilities.

Tag lines should be used whenever loads require guiding or stabilizing. No worker should allow any part of his or her body to extend under any load being lifted by a crane, side boom, or other lifting equipment.

DEPRESSURIZING PRODUCTION EQUIPMENT

Contractors should obtain permission from an Authorized BAYSWATER Representative prior to depressurizing BAYSWATER production related equipment (i.e. wells, pipelines, vessels, compressors, or other associated equipment) in order to determine if any site-specific procedures are in place and to identify any potential hazards. Hazards may include exposure to petroleum hydrocarbon liquids and gases, release of liquids and gases (toxic and/or flammable) to the environment, and fire. Whenever possible, any hydrocarbons or liquids should be captured during depressurization to prevent release to the environment.

ELECTRICAL REQUIREMENTS

BAYSWATER expects that all portable electrical equipment used at BAYSWATER facilities will conform to the National Electrical Code and all applicable OSHA and other related regulations. Installation of electrical systems or modifications to electrical systems (i.e. wiring) should be done under the supervision of a licensed electrician.

The Contractor should determine if the work area will require equipment rated for hazardous atmospheres.

The Contractor should ensure that workers near overhead lines know the voltage of the line and the safe approach distance.

The Contractor should abide by the current Electrical Code Regulations for the jurisdiction in which work is being performed. BAYSWATER expects the Contractor to be aware of, and to take precautions to prevent buildup of static electricity, which can cause sparks (*i.e. bonding & grounding*).

BAYSWATER expects the Contractor to address the presence of cathodic protection systems with the Authorized BAYSWATER Representative when working with tanks or piping, and will request that BAYSWATER deactivate such cathodic protection during performance of the work. Cathodic protection should be restored when work is complete.

ELEVATED WORKING SURFACES & FALL PROTECTION

All work areas, walkways, tank tops and platforms elevated more than 4 feet, whether permanent or temporary, should be safe, sturdy and enclosed by an approved guardrail (proper height, upper and intermediate rail) in accordance with OSHA 29 CFR 1910 Subpart D. Where there is a hazard to the personnel working below the elevated work area, toe boards should be in place. All floor openings should have a securely installed covering or proper guard rail.

Scaffolds or elevated platforms should be constructed, maintained, and used in accordance OSHA 29 CFR 1926 Subpart L.

When working overhead, the Contractor should have a competent signaler and the area roped off or other equivalent measures taken to protect workers on the site. Signs reading "Danger - Overhead Work" or "Hard Hat Area" should be conspicuously posted by contractor. BAYSWATER expects Contractor personnel working at heights of 4 feet or greater and within 6 feet or less of a fall hazard to be protected using fall protection systems in accordance with OSHA 29 CFR 1926 Subpart M.

Full safety harnesses and lifelines, or other acceptable fall arrest systems, should be supplied by the Contractor and worn by all workers when working at heights where falling hazards are present and workers are not protected by guard rails as required by 29 CFR 1910 Subpart D. All workers should be properly trained in the use and maintenance of fall protection devices. Where man baskets are required, the Contractor should ensure that a professional engineer has certified this equipment. Workers in man baskets should be secured in accordance with OSHA 29 CFR 1910 Subpart F.

EQUIPMENT & POWER TOOLS

All equipment and tools necessary to complete the work should be in good condition and operated as per manufacturer's operating guidelines. The Contractor will supply equipment and tools necessary to complete the work; unless other specific arrangements are made with and Authorized BAYSWATER Representative. It is the Contractor's responsibility to assure proper guards are installed and maintained on all power tools and equipment they bring onsite; as per OSHA 29 CFR 1910 Subpart O.

FIRE PREVENTION & SMOKING/OPEN FLAMES

BAYSWATER expects the Contractor to supply fire suppression and protection equipment appropriate to the work being performed and the jurisdiction in which the work is performed according to 29 CFR 1910 Subpart L. ABC type extinguishers are recommended for all BAYSWATER sites. Fire extinguishers should be properly inspected, tagged and sealed, and Contractor personnel should be trained in their use according to 29 CFR 1910.157.

BAYSWATER expects the Contractor to provide appropriately sized fire extinguishers. Such extinguishers should be based upon vehicle size and

potential fire hazard associated with the work.

Smoking is prohibited within 150 feet of the well bore and other associated equipment. This safe practice is in effect from well spud until plugging and abandonment of the well. Smoking is only allowed within designated areas on the worksite. It is the responsibility of the Contractor to establish a designated smoking area a safe distance away, which should be communicated during the pre-job meeting; if applicable.

The presence of any open flame is prohibited within 150 feet of the well bore, production equipment, compressor station, or any other associated facility. Welding and/or cutting operations within this restricted area may only be performed after a Hot Work Permit is issued, and the necessary controls have been instituted to properly address potential hazards onsite.

Contractor personnel should only attempt to extinguish fires that small and easily extinguished with fire protection equipment that personnel have available and are adequately trained to use. For any fire that cannot be easily extinguished, an immediate evacuation to the predetermined muster area should be commenced with Emergency Response procedures instituted, including 911 notifications.

FIREWALLS, BERMS, & DIKES

Contractors should obtain permission from an Authorized BAYSWATER Representative before making any temporary opening in a fire wall, berm, or dike. A firewall, berm, or dike should not be left open overnight without permission from an Authorized BAYSWATER Representative.

FIRST AID & CPR REQUIREMENTS

BAYSWATER expects Contractor's first aid resources to meet the requirements set forth in OSHA 29 CFR 1910 Subpart K, and expects those resources to be available at the site during all aspects of the work. Due to the remote nature of our oil & gas facilities, contractors are expected to maintain their employee's First Aid and CPR certifications. Contractor employees trained and certified in First Aid and CPR have the possibility of occupational exposure to potential infectious materials; therefore, should also be trained in accordance with OSHA's Bloodborne Pathogens standard 29 CFR 1910.1030.

FITNESS FOR WORK

BAYSWATER expects the Contractor to ensure that its workers are able to perform their job functions safely and knowledgeably. BAYSWATER expects the Contractor to have appropriate training programs, policies and procedures to ensure that such expectations are met, including, for example, fitness for duty and other employment policies consistent with applicable federal, state and local law (*e.g., if applicable, the Americans with Disabilities Act, etc.*).

BAYSWATER expects that Contractor to ensure that its employees do not pose a direct threat to the health and safety of themselves or others while on any BAYSWATER site.

GROUND DISTURBANCE & EXCAVATION

BAYSWATER expects any ground disturbance or excavation deeper than 15 inches be conducted according to all applicable OSHA standards. Contractor should request professional location of underground lines through the applicable state program (*i.e. One Call, Miss Utility, or etc.*) prior to any ground disturbance or excavation. Work should not commence until all underground lines have been identified and staked by an Authorized BAYSWATER Representative, local utilities, or other underground locating services.

The Contractor should ensure its workers have the appropriate level of training in ground disturbance activities prior to performing excavation work on BAYSWATER sites. At a minimum, one person who has a current Competent Person Certification for Excavation should remain in attendance during excavation activities. BAYSWATER expects workers will not enter an excavation or a trench which is not in compliance with applicable safety practices. All excavations or trenches where persons may be working should be sloped or shored in accordance with OSHA 29 CFR1926 Subpart P.

If any existing pipeline, or other utility line, is contacted, hit or ruptured during ground disturbance activities, after first contacting 911, the owner of the underground facility should be notified immediately.

HAZARD COMMUNICATION (HAZCOM)

BAYSWATER expects all Contractors' employees, workers and Subcontractors who work with chemicals or other hazardous materials to be trained in HazCom procedures and protections. BAYSWATER expects the Contractor to develop, implement, and follow a program which minimizes the risk of spill, illness, or injury regarding their employee's usage of hazardous chemicals on BAYSWATER worksites. Contractors should ensure their workers are aware of the program, the location and interpretation of the SDS's, and the location and use of the required PPE as required by OSHA 29 CFR1910.1200 and other state/federal regulations.

HOT WORK PERMITS

BAYSWATER requires Contractors utilize a Hot Work Permit process in accordance with OSHA's 29 CFR1910.252-.257 prior to conducting cutting, welding, grinding, or other similar spark/flame producing processes within areas which contain or may produce a potentially hazardous (*flammable/combustible*) environment.

Contractors performing the hot work are required to determine if any additional controls are necessary (*i.e. lockout-tagout, confined space procedures, personal protective equipment, or etc.*) prior to commencing hot work on BAYSWATER sites. A permit remains in effect only for the duration of the work shift in which it is issued. Contractors are encouraged to utilize their own Hot Work Permit Process.

However, if the Contractors Permit is not available BAYSWATER has provided an example Hot Work Permit (*Refer to Example in Appendix C*) which may be utilized. Regardless, prior approval must be obtained from an Authorized BAYSWATER Representative before permit required hot work commences on BAYSWATER sites.

The following examples are areas where BAYSWATER requires Contractors to utilize a permit prior to performing hot work. The list of examples below is not ~~intended to be exhaustive, as hot work permits are not limited to the following areas:~~

- Within 150 ft of **operating** production equipment or facilities;
- Within 150 ft of well servicing, drilling, or workover operations being conducted on a well location;
- During pipeline tie-in or replacement when flammable/combustible gases or vapors may be present;

Hot Work permits are not required in Safe Work Areas that have been designated by Bayswater Authorized Representative onsite or designed specifically for cutting, welding, grinding or other similar processes. No Hot Work will be conducted outside of the Safe Work Areas listed above without a permit.

A “Fire Watch” is defined as a person whose sole responsibility is to monitor for conditions that may cause a fire such as sparks or levels of flammable/combustible gases during permit required Hot Work operations (*i.e. % LEL monitor*), act as stand-by with fire extinguisher (*Minimum 20lbs. ABC Type*) during Hot Work operations, and conduct the final Hot Work sign-off inspection. Assigning a person to perform Fire Watch duty will be the responsibility of the Contractor.

Hot Work in confined spaces will only be permitted when the space can be suitably purged and ventilated to eliminate the possibility of a hazardous atmosphere developing at any time it is occupied. **PERMIT-REQUIRED CONFINED SPACE ENTRY PROCEDURES WILL APPLY!!** (*Refer to Confined Space Entry Section*)

Hot Work should not be performed on containers, above ground storage tanks or underground storage tanks that currently contain or have contained flammable or hazardous liquids on BAYSWATER sites. Hot work should be avoided around these types of containers and storage tanks to eliminate the possibility of explosion and/or fire. When containers and storage tanks develop a leak, the best practice should be to remove the container or tank from service, and replace it with a structurally sound one. If repair of the tank is required, the tank should be removed and transported to a company approved facility such as an API approved tank manufacturing plant, so repairs can be made in accordance with applicable industry standards. If the tank size (*i.e. 500 Bbls. or greater*) prohibits the dismantling, removal, and transport of the tank, then onsite repair of the tank

should only be performed under the specific guidance and authorization of an Authorized BAYSWATER Representative. The Authorized BAYSWATER Representative should consult with a member of Bayswater's internal HSE Committee to make the determination if a hot work procedure can be safely designed and implemented for the required task; as per API RP 2201 Section 9.

HYDRATE FORMATION

BAYSWATER expects Contractors working with flow lines, pipelines, and wellbores to consider the risk of hydrate formation. Contractors should understand the pressure and temperature conditions which can lead to hydrate formation, and be fully aware of the hazards associated with breaking such hydrate freezes.

HYDROGEN SULFIDE

On sites where Hydrogen Sulfide Gas (H_2S) or other hazardous gases may be present, BAYSWATER expects Contractor personnel will be trained to understand the properties, toxicity, and precautionary measures to be taken when working in an H_2S and other hazardous gas environments. At a minimum, Contractors are expected to monitor for the presence of H_2S , CO, O₂ and LEL gas, using a four (4) gas monitor, on all locations as well as take any additional safeguards which may be necessary based on the anticipated exposure concentrations (*i.e. ventilation, respiratory protection, windsocks & etc.*). Contractors are responsible for assuring compliance with any applicable state and/or federal regulations (*i.e. ANSI/ASSE Z390.1 & 29 CFR 1910.100, 5(a)(1)*) related to addressing hazards associated with working in H_2S & other hazardous gas environments.

INCIDENT REPORTING & SPILL RESPONSE

BAYSWATER expects immediate notification of all incidents including, but not limited to, injury/illness, environmental release, vehicle accident, fire, property/equipment damage, and near misses at BAYSWATER sites or in connection with Contractor's provision of work for BAYSWATER. Contractors are expected to immediately report any incident verbally to an Authorized BAYSWATER Representative, and follow-up with a written incident report (*i.e. Refer to Example in Appendix D*). After reporting any incident, Contractors are expected to investigate the cause of the incident in an effort to help prevent future occurrences. To the extent appropriate under the circumstances, BAYSWATER expects each Contractor to effectively inform its employees and Subcontractors of the factual circumstances resulting in an incident, and to provide guidance on methods of prevention of similar incidents in the future. If a Contractor does not have an incident report form, the attached BAYSWATER Incident Report Form serves as a potential guide for issues that the Contractor may want to address (*Only Use the Sections/Pages Applicable*). BAYSWATER expects contractors to take responsibility for reporting and correcting all incidents in connection with Contractor's provision of the work for BAYSWATER and to take appropriate precautions and follow all legal procedures with respect to incident reporting and investigations.

Furthermore, BAYSWATER expects the Contractor to be solely and fully

responsible for the cost of cleanup of any environmental release relating to its activities, and for any claims or losses arising there from. BAYSWATER expects Contractors to instruct workers to recognize the signs of contamination: odors, soil discoloration, or dead vegetation applicable to the services they provide. Contractors should not remove any potentially contaminated soil or water from the environmental release site without the prior approval of an Authorized BAYSWATER Representative.

Upon approval, Contractors will comply with any applicable Hazardous Waste Emergency Response standards (*29 CFR 1910.120*) and other state and/or federal regulations.

LOCK-OUT/TAG-OUT

BAYSWATER expects when Contractor's machinery or Bayswater's equipment is shut down for servicing or repairs, the equipment will be locked out and tagged by trained authorized employees in accordance with OSHA's 29 CFR Control of Hazardous Energy standard. A site-specific lock-out/tag-out procedure will be determined by the Contractor during an initial hazard assessment and conveyed to affected personnel during the pre-job safety meeting. Contractor employees are expected to only work under their own lock/tag and should always verify the machinery or equipment is in fact de-energized prior to commencing work. Once the work is complete the contractor performing the Lockout/Tag-out is responsible for notifying affected personnel before removing their isolation devices and re-energizing the machinery or equipment.

OCCUPATIONAL HEALTH HAZARDS

BAYSWATER expects the Contractor to be aware of occupational health hazards associated with services being provided at the site (*i.e. chemicals, heat, VOC's etc.*). The Contractor should evaluate the risks, controls, and perform monitoring if deemed appropriate or if required by regulation. These hazards should be conveyed to affected personnel during the pre-job safety meeting by the Contractor.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

BAYSWATER expects Contractors to assess the hazards present at each job site based on the task performed and ensure its employees wear the appropriate PPE to protect themselves in accordance with OSHA 29 CFR1910 Subpart I.

BAYSWATER requires the following PPE be utilized at a minimum on all Bayswater operated locations:

Hardhat, safety glasses, steel-toed boots, 4 gas monitors, FR clothing as described further below. Additional PPE shall be utilized as appropriate to the job being conducted.

BAYSWATER expects Contractors to ensure all PPE supplied and required for performance of the work is in good condition and is operated in accordance with manufacturers' specifications. It is the responsibility of the Contractor to ensure their employees are adequately trained in the proper uses, limitations, and maintenance of the PPE utilized.

ANSI approved eye protection; face shields, gloves, and/or other PPE should be provided by the Contractor and worn by their employees as so determined during the Pre-Job Meeting for the work being performed.

BAYSWATER also expects the Contractor to require its employees wear

approved hearing protection if there is a risk of exposure to noise greater than 85 db(A) in accordance with OSHA 29 CFR1910 Subpart G.

BAYSWATER expects Contractors to provide their workers with fire resistant clothing for work on all BAYSWATER sites to be used in accordance with this Section. We expect that all personnel on our facilities will maintain their FRC garments according to the National Fire Protection Association 2112 standard. At a minimum, the outermost layer of clothing covering the arms, legs, and trunk should meet the characteristics for protective clothing in NFPA 70E Hazard Risk Category 1 (HRC1), which means that the clothing must be flame resistant.

Specific tasks and roles (i.e. Electricians) should be evaluated further when determining the appropriate level of protection, as they may well require a higher HRC rating.

Flame Resistant Clothing (FRC) is required to be worn on BAYSWATER locations as indicated below:

The following list of examples is not intended to be an exhaustive list as to when Contractors are expected or not expected to wear FRC. It is intended only to provide some examples of situations or categories so Contractors may make informed decisions.

FRC should be worn:

- Once oil and gas drilling operations commence on a new pad or location;
- On any location or facility where the possibility exists of a natural gas or other flammable vapor release creating the potential for a flash fire (*i.e. tank gauging, transferring of hydrocarbons, hot work, tank heating, lighting of gas fired burners, equipment start-up, pipeline pigging, equipment maintenance operations, and etc.*);
- On any location or facility where a PPE hazard assessment has determined that FRC clothing is a requirement;
- During all drilling, stimulating, fracturing, well servicing, gas compression, pipeline, and production related operations;
- When any electrical work is being performed where FRC is required under the NFPA 70E Standard (*i.e. arc flash hazards*);

FRC is not required to be worn:

- Before the drilling rig stands up on a new pad or location and the well is the first well to be drilled on the pad or location;
- After the last well on a pad or facility has been plugged and abandoned and the well effectively cemented off from any hydrocarbon bearing zones;

Respiratory protection should be used only by personnel trained in its use, care and limitations. In the event a situation occurs that requires the usage of respiratory protection equipment, BAYSWATER expects the Contractor to be responsible for ensuring that its workers have been trained, medically qualified and fit tested as required by OSHA's 29 CFR1910.134. BAYSWATER also expects the Contractor to enforce a "no facial hair" policy for workers who may

be required to wear respiratory protection equipment. In addition, the Contractor should have a written respiration protection program if their workers use respiratory protection.

PRE-JOB SAFETY MEETINGS

BAYSWATER expects that, at each site, Contractors will appoint a competent worker to be responsible for HSE coordination of the Contractor's anticipated task. Contractors should appoint this worker based on the worker's experience and knowledge in both field operations and HSE matters. In order to assure all affected individuals are made aware of jobsite hazards and how to eliminate and/or control them, BAYSWATER expects contractors to perform pre-job safety meetings prior to performing task, which meet the criteria listed below.

A Pre-Job Safety Meeting Form (*i.e. Refer to Example Job Hazard Assessment in Appendix E*) should be completed by the Contractor and reviewed with all affected personnel prior to starting work on a job site, which may expose two or more individuals to potential hazards.

The Pre-Job Safety Meeting should identify the following at a minimum:

- Identify any potential hazards related to performance of the work;
- Eliminate or implement controls to address each potential hazard;
- Identify proper Personal Protective Equipment (PPE) required for the task;
- Review the Pre-Job Safety Meeting Form with all affected employees onsite and have individuals sign off on form;

On sites where multiple Contractors will be conducting concurrent operations (SIMOPS, ref. page 28 of manual), BAYSWATER expects each Contractor to be familiar with the work to be performed by the other Contractors on or around the job site. The Bayswater Authorized Representative directing and controlling the jobsite is responsible to ensure that no person(s) enter a hazardous area unless they are wearing the required PPE, reviewed the Pre-Job Safety Meeting Form, and signed off in acknowledgement. Contractors providing services, which require multiple days in order to complete a job, should complete a new Pre-Job Safety Meeting Form at the beginning of each shift change or day to cover the specific task and associated hazards with each phase of the job.

Jobs requiring Contractors to utilize special permits such as those needed for Hot Work and/or Confined Space Entry should supersede the use of a Pre-Job Safety Meeting Form. Each of the specialized permits mentioned contain their own specific criteria for addressing the specific hazards associated with those tasks.

Once the job has been concluded, the signed Pre-Job Safety Meeting Form should be submitted, if requested to the Authorized BAYSWATER Representative, which requested the work order and filed with the jobs associated paperwork.

REGULATORY & WORKSITE INSPECTIONS

Contractors are expected to immediately inform an Authorized BAYSWATER Representative if approached or contacted by any regulatory inspector while performing services for BAYSWATER.

BAYSWATER expects Contractor's onsite supervisors to perform regular worksite inspections of operations, and to participate in joint inspections with Authorized BAYSWATER and Representatives when requested. BAYSWATER reserves the right to access the Contractor's HSE policies, programs, procedures, or training records upon request to perform any review deemed necessary to assure compliance with this manual and applicable state or federal environment, health and safety regulations. The Contractor is expected to cooperate fully with these inspections.

SOIL CONSERVATION

BAYSWATER expects any excavation, earth-moving, soil stripping, brush clearing, and other earth-work will be conducted in a manner that preserves the soil and allows for the segregation of soil types in order to facilitate land reclamation in the future. Segregation of soil types should be conducted in accordance with applicable state and federal regulations. Contractors are expected to utilize industry Best Management Practices (*BMP's*) in order to prevent excessive soil erosion due to wind or storm water (*i.e. diversion ditches, compost filter socks, rock check dams, & etc.*) according to state and federal regulations.

VEGETATION MANAGEMENT

BAYSWATER expects the Contractor to follow current industry Best Management Practices (*BMP's*) which meet state and federal regulatory requirements regarding soil re-vegetation practices. Contractors should obtain permission from an Authorized BAYSWATER Representative prior to utilizing herbicides on BAYSWATER facilities. BAYSWATER expects all herbicide Contractors should be trained and/or certified according to state and federal regulatory requirements prior to application on BAYSWATER sites.

VEHICLES

BAYSWATER expects Contractor's various types of motor vehicles utilized on BAYSWATER job sites, including, but not limited to, trucks, all-terrain vehicles (*ATV's*), and excavation equipment, to be operated and maintained in a safe and responsible manner, and in compliance with the manufacturer's instructions and other applicable regulations. When required by law, vehicles will be equipped with back-up alarms and rollover protection. Seatbelts should be worn at all times when available.

BAYSWATER expects the Contractor to provide suitable training and certification, where required, to demonstrate the competency of its workers in

operating various types of motor vehicles associated with services being provided for BAYSWATER.

Equipment with reduced visibility to the rear (*i.e. dump trucks, vacuum trucks, excavation equipment or etc.*) should be equipped with back-up alarms or utilize a spotter while backing. In addition, congested work areas may also require the use of a spotter while backing vehicles. Workers should not approach motorized vehicles until eye contact has been established with the operator. Contractors pulling trailers should ensure their trailer has appropriate brakes, brake lights, warning lights, and a hitch with a safety chain.

WASTE MANAGEMENT

Wastes generated by the Contractor (*i.e. waste oil from equipment*) are the sole responsibility of the Contractor.

Wastes generated on behalf of BAYSWATER (*i.e. tank sludge, produced water, used glycol, used compressor oil, condensate & etc.*) should be managed in accordance with instructions from the Authorized BAYSWATER Representative. Storage and handling of wastes should be safe and environmentally responsible, with records detailing wastes generated, stored and disposed of. Disposal of this waste is always subject to BAYSWATER approval.

Waste management starts with material and process selection. When selecting a material (*i.e. degreaser*) the Contractor should plan for the disposal or recycling of the excess and the waste material prior to ordering.

When waste materials are generated, they should be segregated in a way that minimizes the need and costs for disposal. Recyclable waste (*i.e. glycol*) or other materials should be separated from non-recyclable materials. Mixing (*i.e. mixing of waste oil with a non-recyclable liquid*) may reduce disposal options and increase the disposal costs; however, compatibility of the chemicals should be considered.

WATER DIVERSION

BAYSWATER expects the Contractor to obtain all necessary approvals, licenses, and/or permits needed to divert water (*i.e. use of surface water for drilling, use of groundwater wells*) prior to performing the work.

WILDLIFE AWARENESS

BAYSWATER expects the Contractor to provide those employees working in wildlife areas with basic information and training on the specific operating procedures and risks associated with work performed in a wildlife area.

WORKING ALONE

BAYSWATER expects the Contractor to develop, implement and maintain a system (*i.e. buddy system*) to monitor the location of its workers and to ensure their well-being. Contractor should ensure that its' workers and Subcontractors are well-trained and competent to work alone safely before allowing any worker to do so.

SPECIFIC EHS REQUIREMENTS

(SPECIALTY SERVICES)

Trucking, Pipeline, Drilling, Completion, Workover, Well Servicing, Wireline, Swabbing, & Flowback Services (*addressed below*) are examples of specialized services unique within the expertise and training of the Contractor. In turn, BAYSWATER expects all Contractors performing these types of services to take full and sole responsibility for all HSE elements regarding these tasks and to assign supervisory personnel at all BAYSWATER jobsites to oversee and effectively implement a full safety program governing these activities. The following are guidelines for key elements that should be fully addressed in the Contractor's own safety program.

COMMERCIAL TRUCKING SERVICES

COMMERCIAL MOTOR VEHICLE DRIVERS

BAYSWATER expects Contractors and any Subcontractors providing commercial motor vehicle services to comply with applicable state and federal (*DOH, DOT, etc.*) regulations (*i.e. FMCSA 49 CFR Part 40, 303, 325, 350-399*) while delivering goods or performing services for BAYSWATER operations.

OVERSIZED & OVERWEIGHT LOADS

Contractors transporting oversized and/or overweight loads should contact and comply with the appropriate state and federal (*DOH, DOT, etc.*) regulatory agencies and/or utility companies (within the jurisdiction of where the services are rendered) in order to obtain the specialized permits required to perform each move (*i.e. Heavy Hauling Permits & etc.*). Contractors will also be responsible for complying with all precautionary measures required by the oversized and/or overweight hauling permit (*i.e. pilot vehicles, flaggers, signage, and etc.*).

TRANSPORTATION of HAZARDOUS MATERIALS

BAYSWATER expects the Contractor and any Subcontractors to be in compliance with the Transportation of Hazardous Materials Regulations while performing work for BAYSWATER. This includes, but is not limited to, training and certification, vehicle placards, bills of lading, manifesting, proper containers and SDS's, as required by state and federal (*DOH, DOT, etc.*) HazMat regulations (*i.e. FMCSA 49 CFR Part 40 171-180*).

DRILLING, COMPLETION, WORKOVER, WELL SERVICING, WIRELINE, SWABBING, & FLOWBACK SERVICES

ANCHORING

BAYSWATER expects Drilling, Workover, Well Servicing rigs to be set up and properly guyed as specified in *API RP 4F & 4G*, “*OSHA Instruction PUB 8-1.8*”, or equivalent. This protocol should include proper procedures for permanent anchors or rig beam anchoring that is currently in common use.

Prior to installing permanent anchors, the Contractor is responsible for calling in a line locate through the applicable state program (*i.e. One Call, Miss Utility, or etc.*).

BAYSWATER expects permanent anchors and rig beam anchors to be installed appropriate to regional best practices. Regardless, all derrick guy-lines should be secured to adequate ground anchors. Anchors should have closed eyes and be sized according to API RP4G.

BAYSWATER expects guy-lines should be flagged at eye level for high visibility; especially where machinery or other vehicles may be working in close proximity. Guy-lines should be at least 15 feet from any overhead electrical line and should never be placed over electrical lines. Once properly installed guy-lines and anchors should be visually inspected by the contractor prior to each use, at the beginning of each day, after heavy pulls, and following severe wind events.

ATMOSPHERIC MONITORING (*Drilling, Workover, Well Service, & Swab Rigs*)

BAYSWATER expects Contractors to utilize atmospheric monitoring equipment for the detection of explosive (%LEL) and/or hydrogen sulfide (H₂S) gases during drilling, workover, well servicing, and swabbing operations when the potential for encountering such hazards exist. Contractors are responsible for adequately training their employees in detection, maintenance, and calibration of their monitoring equipment per the manufacturer’s specifications.

AUXILIARY ESCAPE LINE

On every drilling or workover rig derrick where there is a risk of blocking or otherwise compromising a primary escape route, BAYSWATER expects the Contractor to provide an auxiliary means of escape through the installation of a properly designed and securely anchored escape line (*i.e. Geronimo line*).

BACK-UP POSTS AND TONG SAFETY LINES

BAYSWATER expects each rotary tong to be attached to the derrick or a back-up post by means of two wire rope safety lines, not less than 5/8 inch in diameter, or one 7/8” or 1” wire rope safety line. Each end should be secured by at least three wire rope clamps or equivalent fittings.

On single-stand, portable derricks using small tongs, each tong should be

attached to the derrick or back-up post by means of two wire rope safety lines, not less than ½ inch in diameter, and each end of the tongs should be secured by at least three wire rope clamps or equivalent fittings.

Any fitting used to attach safety lines to the derrick or back-up posts should have a breaking strength equal to or greater than the combined breaking strength of all lines attached to it.

BLOWOUT PREVENTERS

All blowout preventers (*BOPs*) used in drilling, workover, and other well servicing operations, should be remote controlled, independently powered (*i.e. accumulator*), and be tested for operation as part of the installation procedure. BOP installation will not be considered complete until the testing has been successfully completed. If mechanically possible, ram-type BOPs shall be tested on location to the working pressure rating of the BOPs or to 80% of the pressure rating of the wellhead, or 80% of the burst rating of the tubular, whichever is less.

The BOPs, accumulator, and choke manifold should be regularly inspected and tested following the initial installation test; as per API RP 53 and IADC guidelines. **In addition, BOP's are to be retested anytime a pressure tested seal is broken.**

All outlet valves on spools and BOPs installed on a well should be kept closed except while there is a specific reason for having the valves open.

Tubing perforation and circulation operations should only be conducted with the Christmas tree installed, nipped up, and tested, or a TIW valve and engaged BOPs installed. A lubricator rated to the expected pressure and long enough to contain the tools should also be used. If it is necessary to perforate or circulate with only blowout preventers installed, the ram type preventers should be closed and locked prior to circulation and/or perforating.

All tubing hanger (*wrap-around*) lockdown pins and similar lockdown pins in a wellhead assembly should remain in the fully engaged position at all times and especially during circulation of the well.

During workover rig operations with tubing in the hole, the Contractor shall take special precautions to ensure the tubing is centered in the BOP bore so the pipe rams will be able to close completely and create a good seal around the tubing.

BOILERS & ALTERNATIVE HEATING EQUIPMENT

BAYSWATER expects Contractors to post a copy of the current Boiler Inspection Certificate in the boiler house. Boiler placement should be given special attention due to the potential ignition source hazard this type of equipment presents. Boilers are not permitted anywhere there is a potential for the presence or buildup of flammable or combustible gases or vapors onsite (*i.e.*

150ft from the wellbore). Similar hazards (*i.e. potential ignition source*) exist with alternative types of indirect fired heating equipment as well (*i.e. Tioga IDF Series Heaters*). Only explosion proof heaters which comply with the National Electric Codes definition for Classification 1, Group D, Division 2 hazardous location standards are permitted within the 150 ft radius surrounding the wellbore.

CHEMICAL DRUMS & PORTABLE BULK FUEL TANKS

All Contractor bulk chemical or fuel tanks and drums brought onsite should be properly labeled, including contents and applicable hazard warnings. This includes HAZCOM/GHS labels and other tank or container markings (*i.e. placards & etc.*). Contractors are responsible for ensuring SDS's are available for each type of chemical or fuel they bring onsite. The SDS's must be kept in at least one accessible spot onsite and every person handling chemicals must know the location.

BAYSWATER expects Contractors chemical drums and bulk containers brought onsite, including mud components should be stored in a designated area (*i.e. safe from potential ignition sources*). In addition, chemical drums or bulk containers stored on location should be kept in a secondary containment (*i.e. lined dirt berm or plastic/steel containment*) in order to prevent spillage.

BAYSWATER expects Contractors bulk fuel tanks and other tanks containing flammable or hazardous substances should be enclosed within a firewall, ditch, or other suitable containment to prevent the spread of burning material in the event of a fire and contain the material in the event of a spill. Fuel tanks attached to motorized vehicles are exempt from this guideline.

COMPLETIONS, CEMENTING, & FLOWBACK (HIGH PRESSURE LINES)

During well completions BAYSWATER expects equipment located between a pump or sand concentrator and the wellhead to be controlled remotely from a location outside the potential danger area. During high pressure pumping operations, all unnecessary personnel should be required to stay clear of the rig, rig floor, pumping equipment, and pressurized lines.

Swivel joints with hammer unions should be of sufficient strength to withstand the stresses to which they may be subjected.

A check valve should be installed as close as practicable to the wellhead except while cementing or selective acidizing is being done. A bleed-off valve should be installed between a check valve and the wellhead.

A properly rated pressure relief valve should be installed between a pump and shut off valve on any positive displacement pump discharge hose or line. The relief valve should be cleaned and tested periodically.

All lines which are subject to pressure (*except open ended vent or flare lines*) must be securely anchored and tested to a pressure greater than the maximum, anticipated pressure during the operation. Vent or flare lines used to

bleed pressure must be securely anchored.

Flare or test lines used during flowback or other well servicing operations should terminate approximately 150 feet from the wellbore unless terminating within a pit. In all cases the line should terminate as far from the wellbore as practical and be securely anchored.

All gaseous fluid streams should be directed into a flowback tank or closed frac tank which is properly vented. Temporary test equipment for flowback operations should include bleeders and flare or vent lines. All vent lines should terminate in an area with proper ventilation and without restricted air movement.

COMPETENT DRILLING, COMPLETION, WORKOVER, WELL SERVICING, & FLOWBACK SUPERVISION

BAYSWATER expects the Contractor to appoint a trained and experienced person to supervise any drilling, completion, workover, well servicing or flowback operations on BAYSWATER sites. The supervisor should have a current well control certification from an accredited IADC WellCAP training program and be knowledgeable of Contractors HSE program.

DIESEL & GAS POWERED ENGINES

During drilling and workover operations BAYSWATER expects Contractors diesel or gas engine-powered equipment (*i.e. generators, pumps, & etc.*) utilized within 150 feet of the wellbore, mud tanks, chemical/fuel storage, or other equipment which has the potential to create flammable/combustible hazards be equipped with a shielded ignition system, a positive air shutoff valve, and spark arrested mufflers (*or equivalent*). The air shut off should be installed in such a manner that it is immediately available to the equipment operator.

DRAW-WORKS BRAKES

BAYSWATER expects the brakes on the draw-works of every drilling rig to be tested by the Contractor at the beginning of each tour and should also be examined at weekly intervals to ensure that they are in good working order; per IADC Rig Inspection Checklist or equivalent. The brake linkages and equalizer mechanism should be inspected at the same time and the inspection should be recorded in the tour book.

Unless the draw-works are equipped with an automatic feed control, the operator should not leave the brake without tying it down. Except during drilling, the operator should not leave the draw-works controls while the hoisting drum is in motion.

Where a hold down chain is used in securing the draw-works brake handle, the slot for holding the chain should be provided with a seat. Where a side lug is provided, it should be curved upwards to prevent accidental disengagement of the hold down chain.

DRILL STEM TESTING (DST)

BAYSWATER expects the DST Contractor to be responsible for the coordination and safety of the DST operation. The DST Contractor is responsible for the coordination of all other Contractor's procedures and operations in order to ensure that all workers involved in the DST operation are not subjected to hazards and unnecessary risks. If possible, DST operations should only be conducted during daylight hours.

When hydrostatically testing tubing or drill pipe while going into the hole, either lower the connection /joint below the rotary table, slips or wellhead.

DRILLING, WORKOVER, WELL SERVICING & SWAB RIG SAFE OPERATION RATINGS

BAYSWATER expects the Contractor to ensure:

The maximum safe operating parameters of a rig, based on the design of the equipment, for each specified condition and operation has been determined and certified by the manufacturer or a professional engineer.

The maximum safe operating load of a derrick is determined and certified by a manufacturer or a professional engineer.

The maximum safe operating depth and load are prominently displayed on the rig and are not exceeded.

A certified professional engineer makes structural changes, additions, or repairs made to a rig or overhead equipment. The maximum safe operating depth of the rig and the safe operating load of the derrick should be re-determined and re-certified by a professional engineer, and displayed on the rig prior to putting the rig back into service.

DRILLING RIG DERRICK RAISING OR LOWERING

Prior to raising the derrick, the Contractors Rig Manager, or other designated competent person, should make a complete inspection of all of the parts of the rig; per IADC Rig Inspection checklist or equivalent. Once a derrick is raised, a Rig Manager or other designated competent person should visually check the derrick at frequent intervals throughout the course of the job.

The Rig Manager or other designated competent person should be present and in charge of the telescoping, raising, or lowering of the derrick.

When a mast section is being hoisted, rigging should be attached to designated lifting points clearly marked on each section of the derrick.

Nonessential personnel should not be in the vicinity during rig up or rig down. Except for the operator at the controls, no worker is permitted on or beneath the derrick or mast during telescoping, raising or lowering of the derrick.

The derrick and other rig components should be properly grounded once the

derrick has been successfully raised and properly secured.

EXTREME WEATHER CONDITIONS

If possible, well servicing work (i.e. drilling, completions, workover, well servicing, wireline, swabbing & etc.) should not be performed during an electrical storm, high winds, heavy rains, or other weather extremes. Personnel onsite should be moved to a safe area until conditions allow for work to resume.

FIXED LADDERS

BAYSWATER expects fixed ladders brought onsite which are attached to various types of well servicing equipment (*i.e. tanks, derricks, or etc.*) should be in good working condition and meet the requirements as per OSHA 29 CFR 1910.27.

MACHINE GUARDING

BAYSWATER expects guards of sufficient strength to be installed on the draw-works and rotary table drives. Substantial guards of sufficient height to prevent workers from coming into contact with the drums should be installed in front of the hoisting drums; per IADC Rig Inspection Checklist or equivalent.

BAYSWATER also expects all other types of well servicing equipment with exposed moving parts (*i.e. rotating, reciprocating, or etc.*) should be properly guarded as per OSHA 29 CFR 1910 Subpart O; prior to being utilized onsite.

PIPE RACKS

Pipe racks and pipe tubs should be designed and constructed to support any load placed on them and set level on a solid foundation. Wedges (*chocks*) should be used to prevent tubular goods from accidental movement. Each row of pipe should be secured in the pipe rack in order to prevent shifting. Spacers should be used between the layers of pipe or other material on the rack as well.

PORTABLE HEATERS

A portable heater may be used only for the service for which it has been approved by the manufacturer. Adequate ventilation should be maintained in order to prevent the build-up of toxic gases (*i.e. carbon monoxide*). Portable heaters are not permitted anywhere there is a potential for the presence or buildup of flammable or combustible gases or vapors onsite due to the potential ignition source hazard this type of equipment presents.

RIDING HOISTING EQUIPMENT

BAYSWATER expects the Contractor to prohibit workers from riding the traveling block, hook, elevators, and to prevent its employees from sliding down any pipe, kelly hose, and cable or rope line.

In an emergency, an injured worker may be lowered in a basket stretcher or derrickman's harness from the derrick by means of the traveling block or catline.

In such case, the rotary table should be stopped and an experienced worker should operate the controls.

A boatswain's chair may not be used for any purpose on a drilling or service rig unless prior approved by Bayswater management.

RIGGING

For the purposes of this section, “rigging” means any combination of rope, wire rope, chain, sling, sheave, hook and associated fittings used in a hoisting operation.

Standard wire rope, alloy steel chain, metal mesh, synthetic fiber rope and synthetic fiber web slings should meet the requirements of ASME B30.9-1990.

Slings should be of sufficient strength to withstand the imposed loads, with minimum safety factors as required by regulation. Slings should be tagged with inspection dates, and loads should be clearly marked.

SIMOPS

SIMOPS, or simultaneous operations occur in most current oil and gas operations. Several specific hazards are encountered during these operations and thus require and demand special consideration in the effort to maintain a safe and incident free operation.

A listing of some major SIMOPS operations with associated hazards are listed below:

1. Drilling
 - a. Move in/move out
 - b. Trucking of pipe/fluids
 - c. Casing running
 - d. Cementing
 - e. Well control
2. Fracture Stimulation
 - a. Move in/move out
 - b. Trucking traffic
 - c. High pressure lines
 - d. Overhead crane operation
 - e. Chemical Exposure
3. DO/Completions
 - a. High Pressure lines
 - b. Hazardous/flammable gas
4. Facility Construction
 - a. Trucking of heavy suspended loads
 - b. Trenching/excavation
 - c. Welding
 - d. Fall hazards
 - e. Overhead crane operation

The key to safe SIMOPS is continuous and effective communication among all entities and contractors working on a location. It is imperative that each contractor on location be aware of the current operations underway and familiar with the hazards present. A pre-job JSA should be conducted to discuss all perceived hazards. Bayswater JSA forms for various operations are located for use in Appendix E.

SWABBING

If possible, swabbing operations should be conducted during daylight hours only.

Swabbing units should be anchored securely prior to commencing operation.

A proper wireline lubricator sized for the anticipated pressure and tools should be used during swabbing operations.

Wellbore fluids should be piped directly to a properly vented tank battery, mobile tank, or pit located a safe distance away from potential ignition sources (*i.e. swab rig engine*).

TEMPORARY HOUSING FACILITIES

Temporary housing facilities (*i.e. trailers, campers, & etc.*) should be located a safe distance (*minimum 150ft*) from the wellbore, mud tanks, chemical/fuel storage, or other equipment which has the potential to create flammable/combustible hazards. Electrical wiring and fixtures should meet applicable local building codes and OSHA specifications. All facilities should be properly grounded and securely anchored. Contractors are responsible for ensuring all required permits, licenses and approvals are in place for septic systems, water diversion, and waste disposal associated with its facilities. The Contractors should maintain facility sites in an environmentally conscious manner that protects surface and groundwater water resources while on BAYSWATER sites.

TRAVELING BLOCKS

Traveling blocks should be equipped with securely attached sheave guards.

Any traveling block hook to which equipment is directly or indirectly attached should be equipped with a positive locking device to prevent accidental release of the load being hoisted or lowered.

WEIGHT INDICATOR

BAYSWATER expects every drilling rig to be equipped with a reliable weight indicator. When the indicator is hung above the floor, it should be secured by means of wire rope or chain safety line and should be clearly visible from the driller's position.

WIRELINER PERFORATING

BAYSWATER expects only authorized Contractor personnel may handle perforating equipment and explosives. Only necessary personnel should be in the vicinity of perforating equipment during rig-up and rig-down.

Wireline contractors should insure all personnel on site where perforating operations are being conducted are alerted to wireline company policies and safety procedures associated with usage of radios, cellular phones, or other wireless electronic devices. Signs and/or other appropriate warnings should be placed at appropriate location(s) in order to prevent accidental or unknowing operation.

Following discharge of the perforation gun or strip charge the Contractor should confirm all shots fired and no hazard of post detonation exist prior to exposing workers on location. If there is a miss fire of the gun or strip charge the Contractor should take the necessary precautionary measures to safeguard workers onsite from the potential hazard.

Wellbore pressure and fluid levels should be monitored before and after perforating operations.

Any operation of high pressure valves must be approved by Bayswater Authorized Representative on site. Perfect communication between all contractors is expected before any valve is operated.

Following the perforation job, the Contractor should ensure no explosives remain on location.

PIPELINE SERVICES

FUSION OF PLASTIC PIPE

BAYSWATER expects Contractor personnel performing poly fusion pipeline services to have completed a qualifying fusion techniques training program with the curriculum meeting the specifications of DOT 49 CFR 192.283, 285, 287 and ASTM d-2517. This program should include destructive testing and inspection of sample fusions (*i.e. socket fusion, butt fusion, & etc.*) completed by the qualifying individual and inspected by a qualified instructor. Qualified individuals should be re-qualified annually.

HOT-TAPPING & WELDING INSERVICE LINES

BAYSWATER expects Contractors conducting hot tapping or welding operations on in- service lines at BAYSWATER facilities will designate a qualified person to develop a site specific critical task procedure, and workers completing the task will be competent in the procedure prior to performing the work; as per API RP 1104 Appendix B.2 and API RP 2201. Contractors performing hot tapping or welding operations on in-service lines are also responsible for effectively completing the applicable checklist (*i.e. hot tap*), permits (*i.e. hot tap & hot work*),

and are responsible for communicating the associated hazards to all affected employees in a pre-job safety meeting prior to commencing work; as per API RP 1104 Appendix B.2 and API RP 2201. In addition, BAYSWATER expects contractors conducting hot tapping or welding operations on in-service lines at BAYSWATER facilities will fully comply with any additional recommendations set forth in API RP 1104 Appendix B.2 and API RP 2201.

BAYSWATER expects pipeline Contractors employing in- service line welding practices provide welders with additional certification in accordance with API RP 1104 Appendix B.2 (*Qualification of In-Service Welding Procedures*) or ASME equivalent. Welder certifications must be tested within the last 14 months through a testing program certified by either API or ASME to be considered current. A card or other form of documentation for each technician welding pipe should be available for inspection upon demand.

Furthermore, hot tapping or welding operations on in- service lines should only be performed under the specific guidance and authorization of an Authorized BAYSWATER Representative. The Authorized BAYSWATER Representative should consult with a member of BAYSWATER internal HSE Committee to make the determination if a hot work procedure can be safely designed and implemented for the required task; as per API RP 1104 Appendix B.2 and API RP 2201.

ISOLATION/PURGING OF EQUIPMENT, PIPE, OR PIPELINES

BAYSWATER expects that purging as part of commissioning or decommissioning of lines and equipment will be conducted in accordance with best industry practices and, where available, site-specific procedures.

The Contractor should take the necessary measures (*i.e. utilization of inert gas purge, water purge, or etc.*) in order to control or remove any harmful substances (*i.e. flammable/combustible liquids, gases, or vapors*) contained within equipment, pipes, or pipelines to eliminate any potential hazards (*i.e. fire or explosion*) during repairs or modifications. The equipment, pipe, and/or pipeline should be clearly locked and tagged out in order to noticeably-indicate that the facility is out of service. Additional isolation equipment (*i.e. blind flanges, double block and bleed, and/or other approved methods*) are necessary for isolating high pressure flanged equipment or piping, and should be of a sufficient rating to withstand 125% of the highest pressure anticipated.

Where equipment or lines could contain a substance or substances which are hazardous to health, the Contractor should ensure workers wear the appropriate PPE as identified in the Pre-Job Safety Meeting prior to commencing work.

MECHANICAL FITTINGS

Contractor personnel installing compression unions (*i.e. maxigrrips & etc.*) should also be tested annually in the mechanical attachment methods as per DOT 49 CFR 192.281.

PIPELINE & ROAD CROSSINGS

All pipeline crossings encountered should be hand exposed for 3 feet on either side of the pipeline crossing. In areas where multiple crossings may exist, hand exposure should extend to 6 feet on each side of the pipeline crossings. Pipeline crossings may also be exposed with a combination of light mechanical and hand digging means if a qualified individual is closely monitoring the excavation and signaling the operator.

The Contractor should have a foreman or designate in attendance at all locations where equipment has the potential for coming into contact with existing lines. A lookout who is fully visible to the operator at all times should act as a watchman for the equipment operator.

The Contractor should provide all signs, barriers, certified flag person(s), and other precautionary measures (*i.e. high visibility clothing/vest*) necessary to protect workers from injury while working in and along roadways as required by applicable (*DOH, DOT, etc.*) regulations. Suitable warning tape or fencing should be installed where a work area hazard is accessible to the public or along roadways. Excavations worked or left overnight should have barricades (*i.e. Orange Barrels or Jersey Barriers*) with flashing lights identifying the hazard during hours of darkness as per applicable (*DOH, DOT, etc.*) regulations.

Prior to any pipeline trenching, digging or excavation, CALL IN LOCATES.

REGULATED PIPELINES

Contractors performing installation or maintenance on BAYSWATER pipelines, which are considered regulated under either state or federal regulations should meet all requirements set forth in DOT 49 CFR Parts 186-199 (*i.e. Operator Qualification Program, Drug & Alcohol Testing Program, & etc.*).

WELDING STEEL PIPE

BAYSWATER expects pipeline Contractors to provide certified welders who have been tested within the last 14 months through a testing program certified by either API (*i.e. API RP 1104*) or ASME. A card or other form of documentation for each technician welding pipe should be available for inspection upon demand.

BAYSWATER expects mobile welding rigs to be equipped with a 20-lb. low temperature, dry chemical fire extinguisher.

Suitable flashback/check valve devices should be installed on hoses to prevent reverse gas flows on gas welding equipment.

Bonding cables should be used for all cuts to existing pipelines until the tie-in is completed.

Welding of high-pressure pipe or fittings should be done only in accordance with the manufacturer's specifications.

APPENDIX A

BAYSWATER

ACKNOWLEDGMENT FORM – CONTRACTOR EXPECTATIONS MANUAL for ENVIRONMENT, HEALTH AND SAFETY

Contractor Acknowledgement

This Acknowledgement Form shall not alter or amend the terms of Contractor's written contractual arrangement with BAYSWATER nor shall it alter the status of Contractor as an independent Contractor. Contractor acknowledges its obligation, as reflected in its written contractual agreements with BAYSWATER to take responsibility for compliance with all health, safety and environmental rules, regulations, ordinances, and other laws and for directing, overseeing, and controlling activities of its own employees and subcontractors on any BAYSWATER site.

Contractor acknowledges that the expectations contained in the manual are designed to mitigate, to the extent possible, the occurrence of accidents or other incidents at Bayswater sites. However, BAYSWATER does not warrant or guarantee accidents or incidents will not occur. Contractor is solely responsible for ensuring that all employees and Subcontractors personnel comply with these expectations and that persons or property are protected from injury and damage as a result of Contractor's operations on the site.

Contractor should immediately direct any questions, comments or concerns relating to the manual or any other EHS issue to a member of the Bayswater EHS Committee.

BAYSWATER

CONTRACTOR EXPECTATIONS FOR ENVIRONMENT, HEALTH AND SAFETY

CONTRACTOR ACKNOWLEDGEMENT FORM *CONTRACTOR COPY*

Retain this copy for your records

Version: _____

Acknowledged and Agreed to by Contractor

Signature of Contractor Representative

_____/_____/_____
Date

Printed Name of Contractor Representative

Contracting Company

Address

City, State, ZIP

Area Code/Phone Number

Email Address

BAYSWATER operating areas where your company currently works:

- Colorado
- Wyoming
- Texas
- Other: _____

BAYSWATER
CONTRACTOR EXPECTATIONS
FOR
ENVIRONMENT, HEALTH AND SAFETY

CONTRACTOR ACKNOWLEDGEMENT FORM
BAYSWATER COPY

Return this executed copy to a member of Bayswater's EHS Committee

Version: _____

Acknowledged and Agreed to by Contractor

Signature of Contractor Representative

_____/_____/_____
Date

Printed Name of Contractor Representative

Contracting Company

Address

City, State, ZIP

Area Code/Phone Number

Email Address

BAYSWATER operating areas where your company currently works:

- Colorado
- Wyoming
- Texas
- Other: _____

APPENDIX B – Example Forms
BAYSWATER CONTRACTOR CONFINED SPACE ENTRY CHECKLIST & PERMIT

Safe Work Procedure
Contractor Confined Space Entry Checklist

Authorized BAYSWATER Supervisor or EHS Representative Shall:

- Contact the contractor's project coordinator or representative;
- Obtain a copy of the contractors Confined Space Entry Program (*Have EHS Dept. Review*);
- Determine the type of work required within the confined space;
- Notify the contractor about the procedures used to protect workers in the confined space;
- Coordinate issuance of BAYSWATER Confined Space Entry Permit (*If Permit is Required*);

Location (Be Specific): _____

Brief Description of Work to Be Performed: _____

Sign: _____ **Date:** _____

Contractor's Onsite Project Coordinator or Representative Shall:

- Verify the utilization of appropriate work site/traffic control precautions (*As Necessary*);
- Verify that the appropriate rescue equipment is utilized at the confined space entrance (*As Necessary*);
- Ensure the space will remain isolated from any accidental release of process (*i.e. hydrocarbons or natural gas*) or maintenance materials (*i.e. welding gases, chemical cleaners, or paints*) that could contaminate the atmosphere resulting in elevating the spaces classification to permit required;
- Verify the atmosphere has been tested for _____ O₂ (19.5% - 23.5%), _____ %LEL, _____ H₂S, and _____ CO with 4-Gas Confined Space Monitor and recorded above prior to entry;
- Verify that all physical hazards are removed;
- Verify clean air ventilation is effectively used to completely purged the space (*If Necessary*);
- Standby personnel (*Attendant*) will be stationed outside the space entrance until completion;
- Atmosphere of the space will be monitored continuously or frequently;
- Ensure the means of access and egress remain clear;
- Ensure a means of communication between the Entrant and the Attendant are maintained at all times;
- The proper Personal Protective Equipment is being used for the work performed;
- Verify the permit to assure all requirements are completed (*If Permit is Required*);

Sign: _____ **Date:** _____

APPENDIX B – Example Forms
BAYSWATER CONTRACTOR CONFINED SPACE ENTRY CHECKLIST & PERMIT

Safe Work Procedure
Permit Required Confined Space

CONFINED SPACE ENTRY PERMIT

DO NOT ENTER A CONFINED SPACE UNTIL YOU HAVE CONSIDERED EVERY QUESTION, AND HAVE DETERMINED THE SPACE TO BE SAFE

DATE:
LOCATION (BE SPECIFIC)
DESCRIPTION OF WORK BEING PERFORMED
NAME OF PERSON/CONTRACTOR DOING ENTRY

THE ABOVE LOCATION HAS BEEN EXAMINED, THE PRECAUTIONS CHECKED ON THE HOT WORK CHECKLIST HAVE BEEN TAKEN TO PREVENT FIRE, AND PERMISSION IS AUTHORIZED FOR THIS WORK.

SIGNED: _____
 (ENTRY SUPERVISOR)

SIGNED: _____

SIGNED: _____
 (ENTRY PERSON)

SIGNED: _____
 (BACKUP PERSON)

TIME
 STARTED: DATE: _____ TIME: _____ AM/PM

PERMIT
 EXPIRES: DATE: _____ TIME: _____ AM/PM

CHECKLIST

YES NO

- HAS THE SPACE BEEN VENTILATED BEFORE ENTRY?
- WILL VENTILATION BE CONTINUED DURING ENTRY?
- IS THE AIR INTAKE FOR THE VENTILATION SYSTEM LOCATED IN AN AREA THAT IS FREE OF COMBUSTIBLE DUSTS AND VAPORS AND TOXIC SUBSTANCES?
- IF ATMOSPHERE WAS FOUND UNACCEPTABLE AND THEN VENTILATED, WAS IT RE-TESTED BEFORE ENTRY?
- TAILGATE SAFETY MEETING?
- WORK EQUIPMENT IN GOOD CONDITION? MULTI-
- PURPOSE FIRE EXTINGUISHER?
- ARE ALL ATMOSPHERIC CONDITIONS UNDER THE PERMISSIBLE LIMITS?
- ARE THE PROPER TOOLS AND EQUIPMENT ON LOCATION AND READY FOR USE?

HAS
EVERYONE
INVOLVED
IN THE
PROJECT
REVIEWED
THE
RESULTS
OF THIS
PERMIT?

APPENDIX B – Example Forms
BAYSWATER CONTRACTOR CONFINED SPACE ENTRY PERMIT
(cont'd)

OTHER REQUIREMENTS

YES NO

- DUST, LINT, DEBRIS, FLAMMABLE LIQUIDS AND OILY DEPOSITS REMOVED?
- EXPLOSIVE ATMOSPHERE IN AREA ELIMINATED?
- ARE COMPRESSORS SHUT DOWN, LOCKED /TAGGED AND LINE VALVES CLOSED?
- HAS EVERYBODY BEEN TRAINED IN HAZWOPER 40, RESPIRATORY PROTECTION, CONFINED SPACE, CPR, AND FIRST AID?

AREA MONITORING

YES NO

- ENTRY SUPERVISOR IS SUPPLIED WITH AN EXTINGUISHER, MONITORS AND COMMUNICATION TO OFFICE?
- ENTRY SUPERVISOR IS TRAINED IN USE OF THIS EQUIPMENT?
- WILL THE ATMOSPHERE OF THE LOCATION BE MONITORED WHILE WORK IS GOING ON?
- CONTINUOUSLY?
- PERIODICALLY? (IF YES, GIVE INTERVAL : _____)

REMEMBER – ATMOSPHERIC CHANGES OCCUR DUE TO THE WORK PROCEDURE OF THE PRODUCT STORED. THE ATMOSPHERE MAY BE SAFE WHEN YOU BEGIN, BUT CAN CHANGE VERY QUICKLY.

TESTING

YES NO

- ARE THE INSTRUMENTS USED IN ATMOSPHERIC TESTING PROPERLY CALIBRATED?
- WAS OXYGEN AT LEAST 19.5% - NOT MORE THAN 23.5%?
- WAS LEL LESS THAN 10%?
- WAS H2S 10 PPM OR LESS?
- HAVE YOU BEEN TRAINED IN PROPER USE OF INSTRUMENTS BEING USED?

CLOTHING/EQUIPMENT

YES NO

- IS SPECIAL CLOTHING REQUIRED (BOOTS, CHEMICAL SUITS, GLASSES, ETC.)? IF SO, SPECIFY _____
- IS SPECIAL EQUIPMENT REQUIRED (E.G., RESCUE EQUIPMENT, VENTILATION EQUIPMENT, ETC.)? IF SO, SPECIFY: _____
- ARE SPECIAL TOOLS REQUIRED (E.G. SPARKPROOF)? SO, SPECIFY _____

RESPIRATORY PROTECTION

YES NO

- IS RESPIRATORY PROTECTION REQUIRED (E.G., AIR-PURIFYING, SUPPLIED AIR, SELF-CONTAINED BREATHING APPARATUS, ETC.)? IF SO, SPECIFY TYPE: _____
- IS EVERYONE QUALIFIED TO WEAR RESPIRATORY PROTECTION?

IN CASE OF EMERGENCY CALL: _____

**APPENDIX C – Example Forms
BAYSWATER HOT WORK PERMIT**

Safe Work Procedure

Date Issued		
Issued By		
Location of Hot Work		
Type of Hot Work	Welding - Cutting - Grinding - Other	
EXPIRES	Time _____ Date _____	
Job Description		
Safety Requirements - required to be established & maintained		
The person issuing this permit has required the following safety precautions and indicated by his initials that the following circled items have been established prior to issuing this permit		Initials of Issuing Authority
No flammables/combustibles within 35 feet		
Charged Extinguisher at work area		
Fire Watch(es) briefed & stationed		
Adequate ventilation established		
Welding curtains or shields		
Respirators used		
Hot Work Personal Protective Equipment		
Warning signs posted		
Welding / cutting equipment inspected		
Certified Welder		
Surrounding equipment is Locked Out		
No flammable / combustible gasses in area		
Confined Space Entry Permit Issued		
Access to work area controlled		
Task Started	Time _____	Date _____
Task Completed	Time _____	Date _____
Fire Watch Secured	Time _____	Date _____
Permit Ended	Time _____	Date _____
Return Completed Permit to:		

ANALYSIS - DIRECT CAUSES:

WHAT ACTS, FAILURES TO ACT AND WHAT CONDITIONS CONTRIBUTED MOST DIRECTLY TO THIS INCIDENT - ACCIDENT?

.....

.....

.....

.....

.....

ANALYSIS - INDIRECT CAUSES:

WHAT ARE THE OTHER (INDIRECT) CAUSES THAT CONTRIBUTED TO THE DIRECT CAUSE?

.....

.....

.....

.....

CORRECTION

WHAT ACTION OR RECOMMENDATIONS ARE MADE TO PREVENT RE-OCCURRENCE? INDICATE ASSIGNED RESPONSIBILITY FOR IMPLEMENTATION:

.....

.....

.....

.....

.....

SIGN OFFS

REPORT FILLED OUT BY (ORIGINATOR):	DATE:	SUPERVISOR, HSE REVIEW:	DATE:
DISTRICT MANAGER REVIEW – CWS:	DATE:	CLIENT’S SITE REP. (if required):	DATE:

Witness Name: _____

Phone: _____

**APPENDIX E - BAYSWATER
JOB HAZARD ASSESSMENT FORM**

**Safe Work Procedure
Job Hazard Assessment**

Directions: This form is required to be completed by the Onsite Supervisor or other designee and reviewed with all affected personnel prior to starting work which may expose individuals to potential hazard(s) on job sites involving three or more BAYSWATER employees and/or contractor's employees.

General Job Information:

Specific Location: _____ Supervisor: _____

Job Description: _____

Job Start Date: _____ Est. Completion Date: _____

Potential Hazards: *(Circle All Applicable)*

High Noise Levels	Chemical Exposure	High/Low Pressure	Pipeline Purging
Hot Work	Trenching/Excavating	Flammable/Comb. Gas	Hazardous Energy (LOTO)

Other: *(Overhead Work, H2S, etc.)* _____

Hazard Control:

List the Procedures and/or Safety Equipment Utilized to Eliminate or Control Each Hazard:

Signature of Employees Attending Meeting:

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Required Steps for Eliminating/Controlling Hazards *(According to Priority)*

1.) Eliminate Hazard <i>(i.e. Apply Lockout/Tagout Procedures or Well Control Techniques)</i>
2.) Apply Engineering Controls <i>(i.e. Guards, Emergency Shutdown Valves, or Etc.)</i>
3.) Utilize Warning and Alerting Techniques <i>(i.e. LEL%-UEL% Monitoring Devices)</i>
4.) Use Administrative Controls <i>(i.e. BAYSWATER "Safe Work Procedures" and/or Training)</i>
5.) Personal Protective Equipment <i>(i.e. Safety Glasses, Hearing Protection, or Etc.)</i>

FLUID HAULING TRUCKS IN / OUT OF LOCATION

BEING AWARE OF OPERATIONS
WEAR PROPER PPE



JOB SAFETY ANALYSIS (JSA)

DO COMPLETION SIMOPS OPERATIONS PRE-JOB SAFETY MEETING

BAYSWATER EXPLORATION

LOCATION NAME (PAD): _____ NEAREST HOSPITAL: NCMC GREELEY

DATE: _____ SITE SUPERVISOR: _____ AM _____
 _____ PM _____

TIME: _____ GPS COORDINATES: _____

DESCRIPTION OF WORK: _____

**ALL PERSONNEL ONSITE MUST HAVE 2018 BAYSWATER EXPLORATION ORIENTATION & STICKER
 ANY INJURY, ACCIDENT OR SPILLS NEED TO BE REPORTED TO WELLSITE SUPERVISOR**

POTENTIAL HAZARDS (CHECK ALL THAT APPLY)				
	<input checked="" type="checkbox"/>	LIFTING HAZARDS	<input checked="" type="checkbox"/>	PINCH, CRUSH, OR STRIKING HAZARD
	<input checked="" type="checkbox"/>	FALL PROTECTION	<input checked="" type="checkbox"/>	POTENTIAL RELEASE OF ENERGY
		ELECTRICAL SHOCK	<input checked="" type="checkbox"/>	FIRE OR EXPLOSION HAZARD
	<input checked="" type="checkbox"/>	HAZARDOUS SUBSTANCE/CHEMICAL EXPOSURE	<input checked="" type="checkbox"/>	HIGH NOISE LEVELS
	<input checked="" type="checkbox"/>	SKIN IRRITANTS	<input checked="" type="checkbox"/>	ENVIRONMENT EXTREMES
		CONFINED SPACE	<input checked="" type="checkbox"/>	SHARP EDGES OR HOT / COLD SURFACES
	<input checked="" type="checkbox"/>	OVERHEAD LOADS OR WORK SURFACES	<input checked="" type="checkbox"/>	SNAKES, INSECTS, ETC...
	<input checked="" type="checkbox"/>	SHORT SERVICE EMPLOYEES	<input checked="" type="checkbox"/>	RIGHT-OF-WAY OF CLEARANCES
	<input checked="" type="checkbox"/>	ICE / SNOW / MUD / HEAT / COLD	<input checked="" type="checkbox"/>	OTHER _____
	<input checked="" type="checkbox"/>	MOVEMENT OF HEAVY VEHICLES		
	<input checked="" type="checkbox"/>	HIGH PRESSURE LINES		

APPLICABLE SAFE WORK PRACTICES (CHECK ALL THAT APPLY)				
		PERSONAL H2S MONITORS	<input checked="" type="checkbox"/>	EMERGENCY ACTION PLANS
	<input checked="" type="checkbox"/>	LOTO EQUIPMENT (IF APPLICABLE)		AIR PURIFYING / SUPPLIED AIR
	<input checked="" type="checkbox"/>	SITE SPECIFIC ORIENTATION	<input checked="" type="checkbox"/>	FALL ARREST SYSTEM
	<input checked="" type="checkbox"/>	ALL PPE REQUIRED BY ALL PERSONAL	<input checked="" type="checkbox"/>	SECONDARY CONTAINMENTS
	<input checked="" type="checkbox"/>	SAFE WORK ZONE	<input checked="" type="checkbox"/>	WELL HEAD STANDS / MANLIFT
	<input checked="" type="checkbox"/>	SDS PAPER WORK FOR ALL CHEMICALS	<input checked="" type="checkbox"/>	PROPER LIGHTING FOR SAFE WORK AREA
	<input checked="" type="checkbox"/>	ONSITE SAFETY TRAILER FOR SIGN IN / OUT	<input checked="" type="checkbox"/>	POLLUTION PREVENTION MEASURES
	<input checked="" type="checkbox"/>	SPECIAL PRE-JOB SAFETY MEETING		OTHER _____
	<input checked="" type="checkbox"/>	SPECIAL USE OF PPE		
	<input checked="" type="checkbox"/>	DISCUSSION OF RED-ZONE AREA		

MINIMUM STANDARD REQUIREMENT VERIFICATIONS (CHECK ALL THAT APPLY)				
	<input checked="" type="checkbox"/>	HARD HATS		OTHER _____
	<input checked="" type="checkbox"/>	SAFETY-TOED FOOTWEAR		
	<input checked="" type="checkbox"/>	HEARING PROTECTION		
	<input checked="" type="checkbox"/>	FLAME RESISTANT CLOTHING		
	<input checked="" type="checkbox"/>	SAFETY GLASSES / GOGGLES		
	<input checked="" type="checkbox"/>	FACE SHEILD		
	<input checked="" type="checkbox"/>	HEAT / CHEMICAL RESISTANT GLOVES		
	<input checked="" type="checkbox"/>	COTTON OR LEATHER GLOVES		

MAJOR JOB STEPS	POTENTIAL HAZARDS & CONSEQUENCES	RECOMMENDATIONS TO REDUCE HAZARDS
RIGGING UP	TRUCKS AND FORKLIFT	BEING AWARE OF OPERATIONS
	RIGS ARE RUN ON HIGH ELECTRICAL VOLTAGE	KNOW WHERE TO WALK AND STAY OUT OF
	HIGH PRESSURE LINES	DON'T CROSS HIGH PRESSURE LINES
	POTENTIAL GAS HAZARDS	BE AWARE OF FORMATION BEING DRILLED
		WEAR PROPER PPE
RUNNING CASING AND OR TRIPPING	FORKLIFT OPERATIONS (MOVING PIPE)	BEING AWARE OF OPERATIONS
	HIGH PRESSURE LINES (HYDRAULIC & CIRCULATION)	STAY AWAY FROM HIGH PRESSURE LINES
	POTENTIAL GAS HAZARDS	KNOW YOUR SURROUNDINGS
	CATWALK IS A DANGER AREA (50' BUFFER AROUND)	BE AWARE OF WHERE YOU ARE
		WEAR PROPER PPE
DRILL OUT	MOVING TRUCKS	BEING AWARE OF OPERATIONS
	HIGH PRESSURE LINES	STAY AWAY FROM HIGH PRESSURE LINES
	POTENTIAL GAS HAZARDS	KNOW YOUR SURROUNDINGS
	TRUCKS AND FORKLIFT	BEING AWARE OF OPERATIONS
		WEAZR PROPER PPE
RIGGING DOWN	TRUCKS MOVING EQUIPMENT IN / OUT OF LOCATION	GOOD COMMUNICATION BETWEEN PERSONNEL
	HEAVY & SUSPENDED LOADS	BEING AWARE OF OPERATIONS
	HEAVY TRAFFIC ON COUNTY ROADS & HIGHWAYS	PILOT CARS
		WEAR PROPER PPE



JOB SAFETY ANALYSIS (JSA)

DRILLING SIMOPS OPERATIONS PRE-JOB SAFETY MEETING

BAYSWATER EXPLORATION

LOCATION NAME (PAD): _____ NEAREST HOSPITAL: NCMC GREELEY

DATE: _____ SITE SUPERVISOR: _____ AM _____
 _____ PM _____

TIME: _____ GPS COORDINATES: _____

DESCRIPTION OF WORK: _____

**ALL PERSONNEL ONSITE MUST HAVE 2018 BAYSWATER EXPLORATION ORIENTATION & STICKER
 ANY INJURY, ACCIDENT OR SPILLS NEED TO BE REPORTED TO WELLSITE SUPERVISOR**

POTENTIAL HAZARDS (CHECK ALL THAT APPLY)				
	<input checked="" type="checkbox"/>	LIFTING HAZARDS	<input checked="" type="checkbox"/>	PINCH, CRUSH, OR STRIKING HAZARD
	<input checked="" type="checkbox"/>	FALL PROTECTION	<input checked="" type="checkbox"/>	POTENTIAL RELEASE OF ENERGY
	<input checked="" type="checkbox"/>	ELECTRICAL SHOCK	<input checked="" type="checkbox"/>	FIRE OR EXPLOSION HAZARD
	<input checked="" type="checkbox"/>	HAZARDOUS SUBSTANCE/CHEMICAL EXPOSURE	<input checked="" type="checkbox"/>	HIGH NOISE LEVELS
	<input checked="" type="checkbox"/>	SKIN IRRITANTS	<input checked="" type="checkbox"/>	ENVIRONMENT EXTREMES
	<input checked="" type="checkbox"/>	CONFINED SPACE	<input checked="" type="checkbox"/>	SHARP EDGES OR HOT / COLD SURFACES
	<input checked="" type="checkbox"/>	OVERHEAD LOADS OR WORK SURFACES	<input checked="" type="checkbox"/>	SNAKES, INSECTS, ETC...
	<input checked="" type="checkbox"/>	SHORT SERVICE EMPLOYEES	<input checked="" type="checkbox"/>	RIGHT-OF-WAY OF CLEARANCES
	<input checked="" type="checkbox"/>	ICE / SNOW / MUD / HEAT / COLD	<input checked="" type="checkbox"/>	OTHER _____
	<input checked="" type="checkbox"/>	MOVEMENT OF HEAVY VEHICLES		
	<input checked="" type="checkbox"/>	HIGH PRESSURE LINES		

APPLICABLE SAFE WORK PRACTICES (CHECK ALL THAT APPLY)				
	<input type="checkbox"/>	PERSONAL H2S MONIROT	<input checked="" type="checkbox"/>	EMERGENCY ACTION PLANS
	<input checked="" type="checkbox"/>	LOTO EQUIPMENT (IF APPLICABLE)	<input type="checkbox"/>	AIR PURIFYING / SUPPLIED AIR
	<input checked="" type="checkbox"/>	SITE SPECIFIC ORIENTATION	<input checked="" type="checkbox"/>	FALL ARREST SYSTEM
	<input checked="" type="checkbox"/>	ALL PPE REQUIRED BY ALL PERSONAL	<input checked="" type="checkbox"/>	SECONDARY CONTAINMENTS
	<input checked="" type="checkbox"/>	SAFE WORK ZONE	<input checked="" type="checkbox"/>	WELL HEAD STANDS / MANLIFT
	<input checked="" type="checkbox"/>	SDS PAPER WORK FOR ALL CHEMICALS	<input checked="" type="checkbox"/>	PROPER LIGHTING FOR SAFE WORK AREA
	<input checked="" type="checkbox"/>	ONSITE SAFETY TRAILER FOR SIGN IN / OUT	<input checked="" type="checkbox"/>	POLLUTION PREVENTION MEASURES
	<input checked="" type="checkbox"/>	SPECIAL PRE-JOB SAFETY MEETING	<input type="checkbox"/>	OTHER _____
	<input checked="" type="checkbox"/>	SPECIAL USE OF PPE		
	<input checked="" type="checkbox"/>	DISCUSSION OF RED-ZONE AREA		

MINIMUM STANDARD REQUIREMENT VERIFICATIONS (CHECK ALL THAT APPLY)				
	<input checked="" type="checkbox"/>	HARD HATS	<input type="checkbox"/>	OTHER _____
	<input checked="" type="checkbox"/>	SAFETY-TOED FOOTWEAR		
	<input checked="" type="checkbox"/>	HEARING PROTECTION		
	<input checked="" type="checkbox"/>	FLAME RESISTANT CLOTHING		
	<input checked="" type="checkbox"/>	SAFETY GLASSES / GOGGLES		
	<input checked="" type="checkbox"/>	FACE SHEILD		
	<input checked="" type="checkbox"/>	HEAT / CHEMICAL RESISTANT GLOVES		
	<input checked="" type="checkbox"/>	COTTON OR LEATHER GLOVES		

MAJOR JOB STEPS	POTENTIAL HAZARDS & CONSEQUENCES	RECOMMENDATIONS TO REDUCE HAZARDS
DRILLING OPEN HOLE	TRUCKS AND FORKLIFT	BEING AWARE OF OPERATIONS
	RIGS ARE RUN ON HIGH ELECTRICAL VOLTAGE	KNOW WHERE TO WALK AND STAY OUT OF
	HIGH PRESSURE LINES	DON'T CROSS HIGH PRESSURE LINES
	POTENTIAL GAS HAZARDS	BE AWARE OF FORMATION BEING DRILLED
		WEAR PROPER PPE
RUNNING CASING AND OR TRIPPING	FORKLIFT OPERATIONS (MOVING PIPE)	BEING AWARE OF OPERATIONS
	HIGH PRESSURE LINES (HYDRAULIC & CIRCULATION)	STAY AWAY FROM HIGH PRESSURE LINES
	POTENTIAL GAS HAZARDS	KNOW YOUR SURROUNDINGS
	CATWALK IS A DANGER AREA (50' BUFFER AROUND)	BE AWARE OF WHERE YOU ARE
		WEAR PROPER PPE
CEMENTING	MOVING TRUCKS	BEING AWARE OF OPERATIONS
	HIGH PRESSURE LINES	STAY AWAY FROM HIGH PRESSURE LINES
	POTENTIAL GAS HAZARDS	BEING AWARE OF OPERATIONS
	POSSIBLE CHEMICAL BURNS WITH CEMENTING	WEAR PROPER PPE
RIGGING DOWN	TRUCKS MOVING EQUIPMENT IN / OUT OF LOCATION	GOOD COMMUNICATION BETWEEN PERSONNEL
	HEAVY & SUSPENDED LOADS	BEING AWARE OF OPERATIONS
	HEAVY TRAFFIC ON COUNTY ROADS & HIGHWAYS	PILOT CARS
		WEAR PROPER PPE



JOB SAFETY ANALYSIS (JSA)

FACILITY CONSTRUCTION SIMOPS OPERATIONS PRE-JOB SAFETY MEETING
BAYSWATER EXPLORATION

LOCATION NAME (PAD):		NEAREST HOSPITAL:	NCMC GREELEY
DATE:	SITE SUPERVISOR:	AM	
		PM	
TIME:	GPS COORDINATES:		
DESCRIPTION OF WORK:			

**ALL PERSONNEL ONSITE MUST HAVE 2018 BAYSWATER EXPLORATION ORIENTATION & STICKER
ANY INJURY, ACCIDENT OR SPILLS NEED TO BE REPORTED TO WELLSITE SUPERVISOR**

POTENTIAL HAZARDS (CHECK ALL THAT APPLY)		HAZARD DESCRIPTION		REMARKS
	<input checked="" type="checkbox"/>	LIFTING HAZARDS	<input checked="" type="checkbox"/>	PINCH, CRUSH, OR STRIKING HAZARD
	<input checked="" type="checkbox"/>	FALL PROTECTION	<input type="checkbox"/>	POTENTIAL RELEASE OF ENERGY
	<input type="checkbox"/>	ELECTRICAL SHOCK	<input checked="" type="checkbox"/>	FIRE OR EXPLOSION HAZARD
	<input type="checkbox"/>	HAZARDOUS SUBSTANCE/CHEMICAL EXPOSURE	<input checked="" type="checkbox"/>	HIGH NOISE LEVELS
	<input type="checkbox"/>	SKIN IRRITANTS	<input checked="" type="checkbox"/>	ENVIRONMENT EXTREMES
	<input type="checkbox"/>	CONFINED SPACE	<input checked="" type="checkbox"/>	SHARP EDGES OR HOT / COLD SURFACES
	<input checked="" type="checkbox"/>	OVERHEAD LOADS OR WORK SURFACES	<input checked="" type="checkbox"/>	SNAKES, INSECTS, ETC...
	<input checked="" type="checkbox"/>	SHORT SERVICE EMPLOYEES	<input checked="" type="checkbox"/>	RIGHT-OF-WAY OF CLEARANCES
	<input checked="" type="checkbox"/>	ICE / SNOW / MUD / HEAT / COLD	<input checked="" type="checkbox"/>	OTHER
	<input checked="" type="checkbox"/>	MOVEMENT OF HEAVY VEHICLES	<input type="checkbox"/>	
	<input type="checkbox"/>	HIGH PRESSURE LINES	<input type="checkbox"/>	

APPLICABLE SAFE WORK PRACTICES (CHECK ALL THAT APPLY)		PRACTICE DESCRIPTION		REMARKS
	<input type="checkbox"/>	PERSONAL H2S MONITORS	<input checked="" type="checkbox"/>	EMERGENCY ACTION PLANS
	<input checked="" type="checkbox"/>	LOTO EQUIPMENT (IF APPLICABLE)	<input type="checkbox"/>	AIR PURIFYING / SUPPLIED AIR
	<input checked="" type="checkbox"/>	SITE SPECIFIC ORIENTATION	<input checked="" type="checkbox"/>	FALL ARREST SYSTEM
	<input checked="" type="checkbox"/>	ALL PPE REQUIRED BY ALL PERSONAL	<input type="checkbox"/>	SECONDARY CONTAINMENTS
	<input checked="" type="checkbox"/>	SAFE WORK ZONE	<input checked="" type="checkbox"/>	WELL HEAD STANDS / MANLIFT
	<input type="checkbox"/>	SDS PAPER WORK FOR ALL CHEMICALS	<input checked="" type="checkbox"/>	PROPER LIGHTING FOR SAFE WORK AREA
	<input type="checkbox"/>	ONSITE SAFETY TRAILER FOR SIGN IN / OUT	<input type="checkbox"/>	POLLUTION PREVENTION MEASURES
	<input checked="" type="checkbox"/>	SPECIAL PRE-JOB SAFETY MEETING	<input type="checkbox"/>	OTHER
	<input checked="" type="checkbox"/>	SPECIAL USE OF PPE	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	DISCUSSION OF RED-ZONE AREA	<input type="checkbox"/>	

MINIMUM STANDARD REQUIREMENT VERIFICATIONS (CHECK ALL THAT APPLY)		VERIFICATION DESCRIPTION		REMARKS
	<input checked="" type="checkbox"/>	HARD HATS	<input type="checkbox"/>	OTHER
	<input checked="" type="checkbox"/>	SAFETY-TOED FOOTWEAR	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	HEARING PROTECTION	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	FLAME RESISTANT CLOTHING	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	SAFETY GLASSES / GOGGLES	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	FACE SHEILD	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	HEAT / CHEMICAL RESISTANT GLOVES	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	COTTON OR LEATHER GLOVES	<input type="checkbox"/>	

MAJOR JOB STEPS	POTENTIAL HAZARDS & CONSEQUENCES	RECOMMENDATIONS TO REDUCE HAZARDS
MOVING IN EQUIPMENT	TRUCKS MOVING EQUIPMENT IN / OUT OF LOCATION	STAY AWARE, DO NOT DRIVE DISTRACTED
	HEAVY & SUSPENDED LOADS	KNOW YOUR SURROUNDINGS
	HEAVY TRAFFIC ON COUNTY ROADS & HIGHWAYS	STAY AWARE, DO NOT DRIVE DISTRACTED
		WEAR PROPER PPE
CONSTRUCTION OPERATIONS	HEAVY & SUSPENDED LOADS	KNOW YOUR SURROUNDINGS
	WELDING AND CUTTING OPERATIONS	BEING AWARE OF OPERATIONS
	TRENCHING OPERATIONS	USE PROPER BANKING AND SPOIL PILE PROCEDURES
	FALL HAZARDS	WEAR PROPER PPE & RESTRAINTMENT
		WEAR PROPER PPE
INITIAL FLOWBACK	FLUID FLOW MANIFOLDING	GOOD COMMUNICATION BETWEEN PERSONNEL
	HIGH PRESSURE LINES	STAY AWAY FROM HIGH PRESSURE LINES
	POTENTIAL GAS HAZARDS	BEING AWARE OF OPERATIONS
	FLUID HAULING TRUCKS IN / OUT OF LOCATION	BEING AWARE OF OPERATIONS
		WEAR PROPER PPE



JOB SAFETY ANALYSIS (JSA)

FRAC SIMOPS OPERATIONS PRE-JOB SAFETY MEETING

BAYSWATER

LOCATION NAME (PAD): _____ NEAREST HOSPITAL: NCMC GREELEY

DATE: _____ SITE SUPERVISOR: _____ AM _____
 _____ PM _____

TIME: _____ GPS COORDINATES: _____

DESCRIPTION OF WORK: HORIZONTAL WELL FRAC COMPLETIONS

**ALL PERSONNEL ONSITE MUST HAVE A BAYSWATER HSE 2018 ORIENTATION STICKER
 ANY INJURY, ACCIDENT OR SPILLS NEED TO BE REPORTED TO WELLSITE SUPERVISOR**

POTENTIAL HAZARDS (CHECK ALL THAT APPLY)		POTENTIAL HAZARDS		POTENTIAL HAZARDS
	<input checked="" type="checkbox"/>	LIFTING HAZARDS	<input checked="" type="checkbox"/>	PINCH, CRUSH, OR STRIKING HAZARD
	<input checked="" type="checkbox"/>	FALL PROTECTION	<input checked="" type="checkbox"/>	POTENTIAL RELEASE OF ENERGY
	<input type="checkbox"/>	ELECTRICAL SHOCK	<input checked="" type="checkbox"/>	FIRE OR EXPLOSION HAZARD
	<input checked="" type="checkbox"/>	HAZARDOUS SUBSTANCE/CHEMICAL EXPOSURE	<input checked="" type="checkbox"/>	HIGH NOISE LEVELS
	<input checked="" type="checkbox"/>	SKIN IRRITANTS	<input checked="" type="checkbox"/>	ENVIRONMENT EXTREMES
	<input type="checkbox"/>	CONFINED SPACE	<input checked="" type="checkbox"/>	SHARP EDGES OR HOT / COLD SURFACES
	<input checked="" type="checkbox"/>	OVERHEAD LOADS OR WORK SURFACES	<input checked="" type="checkbox"/>	SNAKES, INSECTS, ETC...
	<input checked="" type="checkbox"/>	SHORT SERVICE EMPLOYEES	<input checked="" type="checkbox"/>	RIGHT-OF-WAY OF CLEARANCES
	<input checked="" type="checkbox"/>	ICE / SNOW / MUD / HEAT / COLD	<input checked="" type="checkbox"/>	OTHER _____
	<input checked="" type="checkbox"/>	MOVEMENT OF HEAVY VEHICLES		
	<input checked="" type="checkbox"/>	HIGH PRESSURE LINES		

APPLICABLE SAFE WORK PRACTICES (CHECK ALL THAT APPLY)		APPLICABLE SAFE WORK PRACTICES		APPLICABLE SAFE WORK PRACTICES
	<input type="checkbox"/>	PERSONAL H2S MONITOR	<input checked="" type="checkbox"/>	EMERGENCY ACTION PLANS
	<input checked="" type="checkbox"/>	LOTO EQUIPMENT (IF APPLICABLE)	<input type="checkbox"/>	AIR PURIFYING / SUPPLIED AIR
	<input checked="" type="checkbox"/>	SITE SPECIFIC ORIENTATION	<input checked="" type="checkbox"/>	FALL ARREST SYSTEM
	<input checked="" type="checkbox"/>	ALL PPE REQUIRED BY ALL PERSONAL	<input checked="" type="checkbox"/>	SECONDARY CONTAINMENTS
	<input checked="" type="checkbox"/>	SAFE WORK ZONE	<input checked="" type="checkbox"/>	WELL HEAD STANDS / MANLIFT
	<input checked="" type="checkbox"/>	SDS PAPER WORK FOR ALL CHEMICALS	<input checked="" type="checkbox"/>	PROPER LIGHTING FOR SAFE WORK AREA
	<input checked="" type="checkbox"/>	ONSITE SAFETY TRAILER FOR SIGN IN / OUT	<input checked="" type="checkbox"/>	POLLUTION PREVENTION MEASURES
	<input checked="" type="checkbox"/>	SPECIAL PRE-JOB SAFETY MEETING	<input type="checkbox"/>	OTHER _____
	<input checked="" type="checkbox"/>	SPECIAL USE OF PPE		
	<input checked="" type="checkbox"/>	DISCUSSION OF RED-ZONE AREA		

MINIMUM STANDARD REQUIREMENT VERIFICATIONS (CHECK ALL THAT APPLY)		MINIMUM STANDARD REQUIREMENT VERIFICATIONS		MINIMUM STANDARD REQUIREMENT VERIFICATIONS
	<input checked="" type="checkbox"/>	HARD HATS	<input type="checkbox"/>	OTHER _____
	<input checked="" type="checkbox"/>	SAFETY-TOED FOOTWEAR		
	<input checked="" type="checkbox"/>	HEARING PROTECTION		
	<input checked="" type="checkbox"/>	FLAME RESISTANT CLOTHING		
	<input checked="" type="checkbox"/>	SAFETY GLASSES / GOGGLES		
	<input checked="" type="checkbox"/>	FACE SHIELD		
	<input checked="" type="checkbox"/>	HEAT / CHEMICAL RESISTANT GLOVES		
	<input checked="" type="checkbox"/>	COTTON OR LEATHER GLOVES		

MAJOR JOB STEPS	POTENTIAL HAZARDS & CONSEQUENCES	RECOMMENDATIONS TO REDUCE HAZARDS
RIGGING UP	TRUCKS AND FORKLIFT	BEING AWARE OF OPERATIONS
	TRUCKS MOVING EQUIPMENT IN / OUT OF LOCATION	GOOD COMMUNICATION BETWEEN PERSONNEL
	HEAVY & SUSPENDED LOADS	KNOW YOUR SURROUNDINGS
	HEAVY TRAFFIC ON COUNTY ROADS & HIGHWAYS	STAY AWARE, DO NOT DRIVE DISTRACTED
WIRELINE OPERATIONS	CRANE OPERATIONS	WEAR PROPER PPE
	HIGH PRESSURE LINES	BEING AWARE OF OPERATIONS
	POTENTIAL GAS HAZARDS	STAY AWAY FROM HIGH PRESSURE LINES
	POSSIBLE CHEMICAL EXPOSURE	KNOW YOUR SURROUNDINGS
FRACING OPERATIONS	CRANE OPERATIONS	WEAR PROPER PPE
	HIGH PRESSURE LINES	BEING AWARE OF OPERATIONS
	POTENTIAL GAS HAZARDS	STAY AWAY FROM HIGH PRESSURE LINES
	POSSIBLE CHEMICAL EXPOSURE	KNOW YOUR SURROUNDINGS
MATERIALS DELIVERY/RIGGING DOWN	TRUCKS MOVING EQUIPMENT IN / OUT OF LOCATION	BEING AWARE OF OPERATIONS
	TRUCKS AND FORKLIFT	GOOD COMMUNICATION BETWEEN PERSONNEL
	HEAVY & SUSPENDED LOADS	BEING AWARE OF OPERATIONS
	HEAVY TRAFFIC ON COUNTY ROADS & HIGHWAYS	STAY AWARE, DO NOT DRIVE DISTRACTED