

Controlled Copy Do Not Duplicate For Internal Use Only

Reference Standards

ISO14001:2015 & ISO45001:2018

Clause 8.1: Operational Planning and Control.

Clause 8.3: Outsourcing. Clause 8.4: Procurement. Clause 8.5: Contractors.

Clause 8.2/8.6: Emergency Preparedness and Response. PSM (22 Elements) Model

Procedure and Performance Standards: This element provides standards of performance including such items as rules, procedures, and design criteria that specify how activities are to be done. They should be written, practical, and available at the point of action, reviewed regularly, followed, and enforced. Adherence to standards must be enforced, even to the point where adherence becomes a condition of employment. Pre Startup Safety Review (PSSR): PSSR provides a final checkpoint for new and modified equipment and facilities to confirm that all appropriate elements of Process Safety Management have been addressed satisfactorily and the equipment / facility is safe to startup. It is mainly intended to make sure that alterations / additions to the process or system do not create hazards to personnel at the site, surrounding facilities, community and environment by inadequate, incomplete, or unauthorized design or installation.

Contractor Safety Management: The intent of this element is to make contractors responsible for effectively meeting the safety, health and environmental requirements. It covers safety expectations of contractors with safety performance of the contractor as the top most priority.

This Section's Objectives

- Establish & enable HSE MS processes related to pollution and accident prevention and control how they operate
- Establish & enable hydrogen sulfide emergency preparedness and response framework

Associated Documents

- Operational Controls Plans; Procedures
- Department Controls Work Instructions
- Derational Controls Maintenance Programs
- Department Controls Calibration Plans
- Cold Work Permit
- Sour/Hot Work Permit
- Electrical Work Permit
- © Confined Space/Vessel Entry Work Permit
- Radiography Work Permit
- Excavation & Civil Work Permit
- Morking at Height Permit
- Vehicle Entry Permit
- Power Isolation Slip
- Energy Isolation Log Sheet
- Safety System Defeat Certificate
- Onsite Waste Management Plan
- 🗎 Section Waste Register
- Waste Consignment Note
- Waste Disposal Log
- Journey Management Plan
- Vehicle Inspection Checklist
- PPE Need Assessment Matrix
- Well(site) Handing Over Taking Over Checklist
- QC Checklist (Treatment & Restoration)
- Production site/ Well(site) Plugging and Abandonment (P&A) Checklist

Applicable Documents

- © OGDCL Safety Handbook For Oil & Gas Exploration Leases (Seismic Surveys)
- OGDCL Safety Handbook For Oil & Gas Well Drilling and Servicing Operations
- OGDCL Safety Handbook For Oil & Gas Development and Production Leases
- HSE Pledge Handbook For Contractors & Service Companies

Preamble

Terms & Definitions

Context

Leadership

Planning

Support

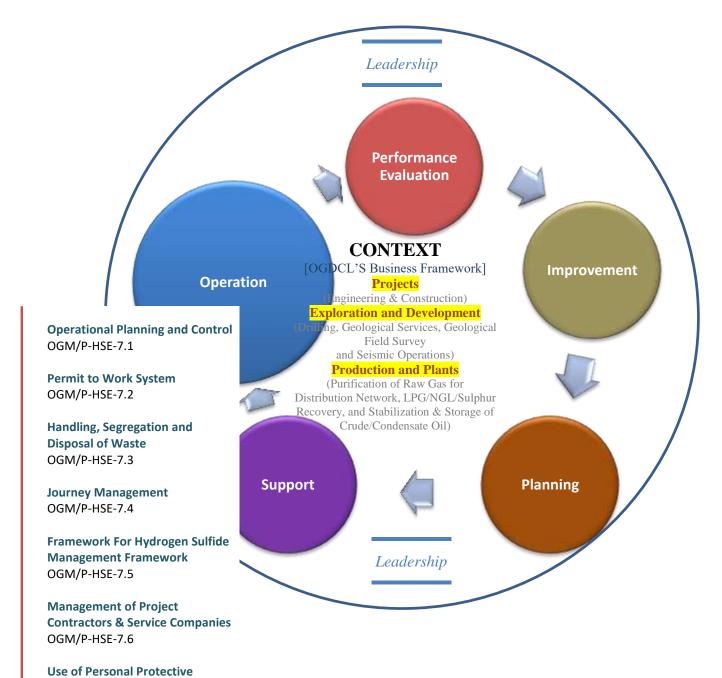
Operation

Performance Evaluation

Improvement



Controlled Copy Do Not Duplicate For Internal Use Only





Framework for Site Restoration

Equipment OGM/P-HSE-7.7

OGM/P-HSE-7.8



Controlled Copy Do Not Duplicate For Internal Use Only

7.1 Operational Planning and Control

OGM/P-HSE-7.1(08) Revision Number 8

Original Issue: June 25, 2007 This Issue: March 14, 2022

Updated By:

Muhammad Sameem Hussain Qaiser
Senior HSEQ Officer, OGDCL

Reviewed By:
Muhammad Mubashir Abbas
Manager HSEQ, OGDCL

Checked By:
Mahmood-ul-Hassan Khan
General Manager HSEQ, OGDCL

Approved By: Syed Khalid Siraj Subhani Managing Director, OGDCL

Change/ Revision Log

#	Description of Change
1.	Added: Shutdown Levels to be used after tailoring/ custom-designing as per requirements at each gas
	processing plant.

Associated Documents Approval & Issue

Related Document/ Record	Initiated by	Reviewed by	Approved by
Operational Control Procedures	Concerned Section IC	Location IC	Area Manager/ Concerned GM
Operational Control Work Instructions	Concerned Section Rep.	Concerned Section IC	Location IC
Operational Control Maintenance Plans	Concerned Section IC	Location IC	Area Manager/ Concerned GM
Operational Control Calibration Plans	Concerned Section Rep.	Concerned Section IC	Location IC







Controlled Copy Do Not Duplicate For Internal Use Only

- Consistent with a life cycle perspective, the management shall:
 - apply impact control hierarchy with the aid of any tool like Layers Of Protection Analysis (LOPA) for assessing the "adequacy of protection layers". The methodology helps to identify safeguards that meet the Independent Protection Layer (IPL) criteria,
 - establish controls as appropriate to ensure that its HSE requirement(s) are addressed in the design, processes, production, and dispatch of the products, considering each stage of its life cycle;
 - determine its HSE requirement(s) for the procurement of material, equipment and services as appropriate;
 - communicate its relevant HSE requirement(s) to external providers, including contractors and service companies;
 - consider the need to provide information about potential significant HSE impacts associated with the transportation or dispatch, use, end-of-life treatment and final disposal of materials, equipment, and products.
 - When processes are outsourced, or when services are supplied by (an) external provider(s), the management's ability to exert control or influence may vary from direct control to limited or no influence. When determining the type and extent of operational controls related to external providers, including contractors and service companies, the management shall consider one or more factors such as vulnerabilities, threats & opportunities and associated impacts related to the outsourced process or services and the compliance obligations. Subsequently the operational controls can be agreed upon during the signing of contract / agreement.
 - The documented information to the extent necessary to have confidence that the processes have been carried out as planned shall be maintained as follows:-

Coverage & Scope → ↓ Job/ Activity		Permit to Work U System	Emergency	Preparedness Response	Specific SOPs (Pre- Startup, Shutdown, etc.)	*Specific Work Instructions	Specific Maintenance Programs (In-house)	Specific Calibration Plans (External)
Specific Seismic Job, Drilling Activity, Production Activity, Process/ Sub-Process	I	V			Ø	\square	V	
Corolla	y Fui	nctior	ns/	Acti	vities			
Chemical (Material) Handling	\checkmark	$\overline{\checkmark}$		$\overline{\checkmark}$	$\overline{\checkmark}$	$\overline{\checkmark}$		
Excavation Work	$\overline{\checkmark}$	✓		$\overline{\checkmark}$		V		
Working in Confined Space	$\overline{\checkmark}$	$\overline{\checkmark}$		$\overline{\checkmark}$	$\overline{\checkmark}$	V		
Work At Height	$\overline{\checkmark}$			$\overline{\checkmark}$	$\overline{\checkmark}$	$\overline{\checkmark}$		
Explosives Handling	$\overline{\mathbf{V}}$	\checkmark		\checkmark	✓	V		
Controls for Mechanical Integrity	$\overline{\mathbf{V}}$	\checkmark		$\overline{\checkmark}$	$\overline{\checkmark}$	\checkmark	$\overline{\checkmark}$	V
Noise/ Vibration Controls	$\overline{\checkmark}$	$\overline{\checkmark}$		$\overline{\checkmark}$	$\overline{\checkmark}$	$\overline{\checkmark}$	$\overline{\checkmark}$	V
Lifting and Hoisting Controls	\checkmark	✓		\checkmark	$\overline{\checkmark}$	V	\checkmark	V
Electrical & Instrumentation Controls	\checkmark	✓		\checkmark	$\overline{\checkmark}$	✓	V	V
Power Management	\checkmark	✓		\checkmark	✓	✓	V	V
Water Management	\checkmark	✓		\checkmark	✓	✓	V	
Energy (Emissions/Flare/Vent) Mgt.	$\overline{\mathbf{V}}$	$\overline{\mathbf{V}}$		$\overline{\checkmark}$	$\overline{\checkmark}$	$\overline{\checkmark}$	V	V
Effluents Management	$\overline{\mathbf{V}}$	V		$\overline{\checkmark}$	✓	V	V	
Journey Management		✓		✓		✓		

- SOPs shall be established by all Sections/ Departments where their absence could lead to deviation from HSE policy, objectives, or targets; or could cause significant HSE impact.
- **Work Instructions** shall be established by all Sections/ Departments to stipulate the operational criteria for carrying out operations having significant HSE aspects and impacts.
- Maintenance Programs shall be developed by concerned Sections/ Departments and implemented for equipment, machines and systems to ensure smooth, safe, energy-efficient and reliable operations.







Controlled Copy Do Not Duplicate For Internal Use Only

- **Calibration Plans** shall be developed by concerned Sections/ Departments and implemented for equipment, machines and systems associated with significant HSE aspects and impacts (&emergencies).
- It is noteworthy to mention that every person engaged in the operations and every other person who may be exposed to the risk of injury, poisoning or disease arising from the operations should be provided with appropriate **Personal Protective Equipment** (PPE); No person should be allowed to work in a field boundary unless he is wearing a suitable coverall, safety helmet, and safety shoes which should be provided by the Location Management.

Shutdown Levels: Following shutdown levels may be used after tailoring/custom-designing as per requirements at each gas processing plant:

Shutdown Levels	Scope	Initiation	Isolation	Blow down
Level 1 (F&G Failure)	Total Plant Shutdown with automatic depressurization	Manually (from the Control Room), Automatically from the F&G (confirmed fire) or Automatically on SD/F&G system power failure.	Total Plant Shutdown will include shutdown of all wellhead valves and isolation of the plant from all incoming and outgoing pipelines by closure of all shutdown valves.	This level of shutdown will result in an automatic plant blow down. If it is necessary, blow down of the Chiller Package, Propane Storage Vessel and Dehydration Inlet Coolers (shell side) will be activated manually from the MCR Common Services Panel.
Level 2 (Process Failure)	Total Plant Shutdown without automatic depressurization	- Manually (from the Control Room), - Automatically from process shutdowns (Instrument air failure, LP Flare KO Drum high liquid level and LP Flare KO Drum high pressure), - Automatically from the F&G (confirmed gas detection) or - Automatically from total main power generation failure.	Total Plant shutdown to include shutdown of all wellhead valves and isolation of the plant from all incoming and outgoing pipelines by closure of all shutdown valves without depressurization of gaseous streams.	Shutdown is Blow down, if required, will be manually initiated from the MCR Common Services Panel.
Level 3 (Train Failure)	Single Train Shutdown without automatic depressurization	Manually for a train, from the Control Room, Via local pushbuttons located within the process train or Automatically from process shutdowns.	Shutdown to include isolation of the relevant train from incoming and outgoing pipelines without depressurization of gaseous streams.	Blow down, if required, will be manually initiated from the Control Room's common services panel.
Level 4 (Equipment/ Package Failure)	Process Shutdown without automatic depressurization	Automatically from process shutdowns or Automatically by machine monitoring shutdowns.	In the event of a process shutdown, the remainder of the appropriate unit/ package will continue to operate and will only shutdown under cascade of the affected trip actions.	Blow down not required.







Controlled Copy Do Not Duplicate For Internal Use Only

7.2 Permit to Work (PTW) System

OGM/P-HSE-7.2(08) Revision Number 8

Original Issue: June 25, 2007 This Issue: March 14, 2022

Updated By:

Muhammad Sameem Hussain Qaiser
Senior HSEQ Officer, OGDCL

Reviewed By:
Muhammad Mubashir Abbas
Manager HSEQ, OGDCL

Checked By:
Mahmood-ul-Hassan Khan
General Manager HSEQ, OGDCL

Approved By: Syed Khalid Siraj Subhani Managing Director, OGDCL

Change/ Revision Log

#	Description of Change
1.	Amended: The authorization of various types of permits to be decided after evaluation by the concerned Dept. Head / Location IC and Location HSE Representative stating as follows: "Mr was evaluated for the PTW Authority as Performing / Issuing Authority for the Work Permits / Certificates. Based on the evaluation, he / she is Recommended for the,,,, as PTW Authority."
2.	Amended: HSE Representative shall not sign any work permit: however, in case he is required to sign a specific permit under unusual circumstances, it would only be an act of endorsement that Permit Issuing Authority and Permit Receiving Authority both have taken all applicable safety measures against the Checklist prior to execution of safety critical job.
3.	Added: Any of Tool Box Talks conducted must be supported by the signatures of participants on backside of the Permit
4.	Added: Safety System Defeat Certificate
5.	Added: All entities/ columns of PTW shall be filled. Fields which are not required shall be crossed out and nothing shall be left unfilled. Cutting and over writing in PTW shall render it invalid and a new form shall be filled. Alteration done in any entity/ column of the PTW, after issuance of the permit / certificates, specifically in job description will make the permit/ certificate invalid
6.	Added: PTW Exemption
7.	Amended: Permits revalidation

Associated Documents Approval & Issue

/\330Cla1C	a bocomonis Appro	7 V CI CX 1330 C	
Related Document/ Record	Initiated by	Reviewed by	Checked/ Verified / Approved by
OGF – HSE – 019 Cold Work Permit	Issuing Authority	Receiving Authority, Job Performer	Receiving Authority
OGF – HSE – 020 Hot / Sour Jobs Work Permit	Issuing Authority	Receiving Authority, HSE, Job Performer	Receiving Authority
OGF – HSE – 021 Electrical Work Permit	Issuing Authority	Receiving Authority, Job Performer	Receiving Authority
OGF – HSE – 022 Confined Space / Vessel Entry Work Permit	Issuing Authority	Receiving Authority, HSE, Job Performer	Receiving Authority
OGF – HSE – 023 Radiography Work Permit	Issuing Authority	Receiving Authority, Job Performer	Receiving Authority
OGF – HSE – 024 Excavation & Civil works Work Permit	Issuing Authority	Receiving Authority, Job Performer	Receiving Authority
OGF – HSE – 025 Work at Height Work Permit	Issuing Authority	Receiving Authority, HSE, Job Performer	Receiving Authority
OGF – HSE – 026 Vehicle Entry Permit	Section / Department Rep.	IC Shift	Location IC
OGF – HSE – 027 Lock-out Tag-out (LOTO) Record	Electrical	Electrical	Electrical
OGF – HSE – 028 Power Isolation Slip	IC Shift	IC Shift	IC Shift
OGF – HSE – 029 Safety System Defeat Certificate	Receiving Authority	Isolating Authority	Area Authority





Controlled Copy Do Not Duplicate For Internal Use Only

7.2.1 General

- PTW System shall provide a system for the control of potentially hazardous jobs in order to ensure that various types of maintenance and inspection work are carried out in a safe manner and without impacts to the personnel and equipment.
- PTW System shall ensure proper understanding of the details of the job to be performed, vulnerabilities involved and various precautionary measures to be taken, before commencing the job, during the execution of the job and on the completion of the job.
- PTW System shall be applicable to all types of maintenance, repairs, modifications, construction, project activities, assembling and dismantling carried out by the employees of the company as well as by any contractors and service companies.

7.2.2 Types of Work Permits/ Certificates

Following types of work permits/ certificates shall generally be in use;

Permit Background Colour Cold Work Permit **Blue Colour** Sour/Hot Work permit **Red Colour Green Colour Electrical Work Permit** Confined Space/Vessel Entry Work Permit **Grey Colour** Radiography Work Permit **Yellow Colour Brown Colour Excavation & Civil Work Permit** Working at Height Permit **Pink Colour** Vehicle Entry Permit **Purple Colour Aqua Colour** Power Isolation Slip Safety System Defeat Certificate **Light Yellow Colour**

7.2.3 Role of Permit Issuing Authority & Receiving Authority

Concerned Dept. Head / Location IC in consultation with Location HSE
Representative shall decide the nominees suitable for issuing and receiving
work permits on the basis of training, skills, roles/ responsibilities and a
comprehensive evaluation of individuals' competency and understanding of
workplace. The authorization of various types of permits to be decided after
evaluation by the concerned Dept. Head / Location IC and Location HSE
Representative stating as follows:
"Mr was evaluated for the PTW Authorit y as Performing / Issuing Authority
for the Work Permits / Certificates. Based on the evaluation, he / she is Recommended for the
& and Not-Recommended for
the,, & as PTW Authority."

A consolidated "List of Authorized Permit Issuing Authorities and Receiving Authorities" for various types of permits & certificates (duly signed by Location IC) shall be maintained by Location HSE Section in following format:

List of Authorized Permit Issuing Authorities and Receiving Authorities

PERMIT ISSUING AUTHORITIES							
				Authorized For			
#	Date	Name, Designation	Section	Area	Permit Type	Isolation	
		PERMIT RE	CEIVING AUTHO	ORITIES			
				A	Authorized Fo	or	
#	Date	Name, Designation	Section	Area	Permit Type	Isolation	

- Before issuing the work permit, Issuing Authority will:
 - Ensures that the scope of work is clearly defined.







Controlled Copy Do Not Duplicate For Internal Use Only

- Determine the type(s) of permit(s) to be issued relevant to task.
- Ensure fulfillment of mandatory requirement of job hazard analysis.
- Physically inspect or delegate any competent person (in situation where his present responsibility does not allow leaving office) for inspection of site along with permit receiver to evaluate the physical conditions and control measures.
- Discuss mutually with the Receiving Authority on vulnerabilities involved in carrying out proposed activity and other activities in parallel in the area / close vicinity.
- Ensure that the necessary tags, lockouts, isolation procedure are fully implemented as required.

■ The Receiving Authority will:

- Carryout impact assessment for the identification of impacts associated in proposed activity and that control measures are adequately implemented and recorded.
- Ensure that the trained and experienced personnel perform the task.
- Communicate the existing vulnerabilities involved in proposed activity to all concerned staff in safe accomplishment of activity.
- Ensure that all workers for this particular job understand the safe procedure for carrying out the job.
- Ensure that the work site is left in safe condition upon completion of work.
 Carryout all housekeeping prior to handing over the site / permit closure.
- In case the activity is performed by the Contractor or Service Company, then he will:
 - Ensure that his representative at Location understands the PTW requirements.
 - Ensure that formal job hazard analysis has been completed with assistance from OGDCL representative.
 - Provide appropriate training to his staff on safe execution of work and that mandatory PPE are fully enforced at worksite.
 - Act as Issuing Authority where long-term construction/ project activities are planned.
- HSE Representative shall not sign any work permit: however, in case he is required to sign a specific permit under unusual circumstances, it would only be an act of endorsement that Permit Issuing Authority and Permit Receiving Authority both have taken all applicable safety measures against the Checklist prior to execution of safety critical job.
- No maintenance, repairs, modifications, excavation, construction, radiography or confined space entry shall be carried out without a valid work permit by the employees or by any contractors and service companies.
- All entities / columns of PTW shall be filled. Fields which are not required shall be crossed out and nothing shall be left unfilled.
- Cutting and over writing in PTW shall render it invalid and a new form shall be filled. Alteration done in any entity / column of the PTW, after issuance of the permit / certificates, specifically in job description will make the permit/ certificate invalid.
- If during the course of its work, a confined space is encountered that has not been previously identified, the space must be immediately brought to the attention of the HSE representative, and entry to be delayed until HSE representative has examined the space.
- The record of all permits (hard copy) along with supporting documentation shall be maintained for 02 years
- Where applicable, locks and tags (standardized) shall be used to control the start-up of equipment that is being serviced or maintained. At no time any locks or tags to be overridden that are encountered during the performance of work.







Controlled Copy Do Not Duplicate For Internal Use Only

7.2.4 Energy Isolation

- For any work involving the need to prior-isolate plant and equipment to protect against hazards of the system or process, the positive isolation shall be preferred. This is used for all energy isolations (electrical, mechanical, process, pneumatic, hydraulic, chemical and thermal).
- Any isolation of energy systems; mechanical, electrical, process, hydraulic and others, shall not be allowed to proceed unless:
 - the method of isolation and discharge of stored energy are agreed and executed by an authorized person(s) in compliance with the applicable Lock-out Tag-out (LOTO) standards,
 - any stored energy is discharged,
 - a system of locks and tags is utilized at isolation points,
 - a test is conducted to ensure the isolation is effective, and
 - isolation effectiveness is periodically monitored.
- Location management in conjunction with Sectional ICs shall be responsible for implementing energy isolation system by ensuring following:
 - that extent of energy isolation shall be identified in the light of best practices jointly by Issuing and Performing Authorities.
 - that all energy isolation activity is effectively communicated to affected
 personnel and proper controls are maintained on energy isolations devices.
 - + that all relevant personnel are trained on energy isolation.
- Electrical isolation, lockout, and use of hold tag procedures shall be used before and during any activity requiring personnel to work on or near deenergized circuit parts or where there is danger of injury due to an unexpected startup of equipment (e.g., a motor-driven pump). The hierarchy of controls & types of lock out/ tag out devices is given below:

Device type	Details
Physical Restraint Devices	-Used in conjunction with clasps, locks and tags.-Used to protect personnel and machinery in conjunction with tags.
Isolation Clasp	-Used in conjunction with multiple locks and tagsEach lock on a clasp represents an individual associated with the task.
Isolation Padlocks	-In energy isolation, the use of a padlock or similar device to hold an energy isolating device in the safe position and prevent the energizing of a machine or equipment. Where locks cannot be used, a prominent warning device, such as a tag and a means of attachment, is fastened to an energy isolating device to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

Other energy sources such as pressurized gas, process fluids, and hydraulic, pneumatic, thermal, chemical, and mechanical systems shall be isolated by valves, blinding, double block & bleed, or disconnecting.

7.2.5 PTW Exemption:

PTW shall not be applicable to routine & formally authorized minor jobs, and non-process areas / permit-free areas which may include:

Routine & Formally Authorized Minor Jobs

- Monitoring of plant parameters and visual inspection of any equipment
- Machine oil / grease make-up by operator
- Fused bulb replacement on alarm panel
- Plugging of electrical apparatus
- Painting, tagging and marking of lines / equipment etc.
- Small civil / masonry work without the involvement of excavation such as flooring, installation of safety boards, levelling of open plot, etc.

Non-Process Areas / Permit-Free Areas

- Vehicle maintenance workshop
- Maintenance workshop







Controlled Copy Do Not Duplicate For Internal Use Only

- Warehouses
- Chemical / lube storage areas
- Waste yards
- Access roads and
- Roads in the camps area
- Permit Free Areas shall be reviewed and PTW Exemption List be maintained.
- However, PTW for the following jobs (even including above mentioned areas) shall continue to be controlled by the designated "Issuing Authority" and "Area Authority":
 - Hot Work (Welding, grinding, cutting),
 - Excavation jobs beyond 0.5 meter,
 - Electrical and mechanical work on confined spaces, live circuits, & HVAC system, and where electrical and / or mechanical isolation is required,
 - Work on smoke detectors and fire water main,
 - Work at height, and
 - Heavy lifting operations
- PTW Exemption List shall consist of low risk routine activities; however the exempted jobs must be assessed, risk-ranked and controls put in place like written safety instructions / precautions before nominating them as candidate.
- List of exempted lists shall be reviewed on annual basis in the HSE MRC meetings.

7.2.6 Rules for Permit To Work (PTW) System:

- a) Site Inspection: The Issuing Authority shall ensure that site is visited by him or suitable delegate along with the Receiving Authority to determine the conditions and identifying vulnerabilities involved in proposed activity. The physical condition of equipment e.g., welding machine, tools etc. shall also be checked by the permit issuer or his delegate for appropriateness. If condition of surrounding work area are satisfactory and vulnerabilities are evaluated and controlled then the permit issuer shall issue the permit and if surrounding conditions of work area are not satisfactory for the work to proceed the work permit will not be issued until certain mitigation measures are taken.
- b) Gas Test (LEL, O2, CO & H2S): Gas test, if required as per the condition of the applicable work permit shall be conducted by the Issuing Authority / his delegate in presence of Receiving Authority prior to issuing the Work Permit, for likely presence of flammable / toxic gases / oxygen level at work site. Permit will be issued only if the results of gas test are satisfactory. Periodic testing during job execution is mandatory on frequency of 2 hours by Issuing Authority/ his delegate. However the duration may be reduced to a suitable frequency say 1 hr. by the Issuing Authority keeping in view the criticality of job. The frequency of gas testing for such activities must be specified while issuing permit and recorded on permit document. Calibration of gas testing equipment to be ensured prior to use by trained staff.
- c) Pre Job Safety Meeting For Hazard Awareness / Communication: It is the responsibility of Issuing Authority to brief the Receiving Authority the specific conditions existing in the work area, related vulnerabilities, special precaution required for the job, PPE requirement etc. The Receiving Authority will communicate the same to all workers involved in the job by conducting a separate briefing / toolbox talk prior to job execution. Any of Tool Box Talks conducted must be supported by the signatures of participants on backside of the Permit.
- d) **Permit Distribution and Display:** The Receiving Authority is responsible for ensuring that the display of permit at prominent location at the worksite (and in the Motor Control Center (MCC) in case of electrical isolation), and will remain there until completion of job. In case of extension / closure the receiver







Controlled Copy Do Not Duplicate For Internal Use Only

brings the copy of permit to issuer for extension / closure as per prevailing condition mentioned in this procedure.

- e) **Work Supervision:** Receiving Authority is responsible for ensuring that the workers comply with work permit system requirements during the entire activity. The Receiving Authority or his representative must remain at worksite till completion of job in all activities performed by company staff. In contractor executed activities, contractor's or service company's supervisor must remain at site to ensure full compliance of permit system.
- f) **Work Monitoring:** Concerned Dept. Head / Location IC, Issuing Authority, Location HSE Representative or any delegate (defined in the permit) may frequently visit the work area to monitor the conditions. For critical jobs visit frequency may be fixed to monitor the conditions or any suitable person may be deputed to remain at site all time till completion of job.
- g) **Simultaneous Activities:** Simultaneous activities are required to be identified at the time of issuing work permit, recorded in permit checklist and the same to be communicated to Receiving Authority for his information and necessary precautions during work execution. The Issuing Authority may designate a competent person to ensure that the interfaces between working parties are properly managed as per authorization on work permits.
- h) Work Permit Validity: Work permit is valid only for the time specified on the permit for which it is issued. Incomplete jobs within specified time period the permit requires revalidation / reissuance by the Issuing Authority. The maximum validity of a permit is One Shift, after which the permit is revalidated upon detailed inspection / checks. A permit is revalidated only once for another shift, after which the permit requires reissuance through reassessment / check for work area conditions. Permits shall also be revalidated if any of the following is observed during work:
 - Change in scope of work,
 - + Significant change in the workgroup,
 - New hazard become apparent which may have significant impact and
 - Permit suspended due to an emergency or a lapse of two hours from the time Area Authority signed the permit.

In case there is a change in any of the PTW authorities, then all signatories have to endorse the permit. It will be the responsibility of the authority that has been replaced to get the signatures.

Blanket Work Permit: For any Cold Work and Line Break Job which is likely to continue more than 2 work shifts where project activities of similar nature are planned during ATA jobs and instances allowing work on a grouping of closely interrelated or similar pieces of equipment (e.g., groups of exchangers, pumps, vessels and connecting piping, etc.), blanket safe work permitting of crafts can be done with prior agreement and a Blanket Permit may be issued by concerned Dept. Head / Location IC after carrying out assessment / checks and other requirements of PTW system. The validity of permit is up to a maximum of 7 days and a new permit is to be issued afterwards. Concerned Dept. Head / Location IC may delegate responsibilities for the monitoring during execution of job to any suitable nominee in order validate the work permit requirements. The responsibility for conducting safety briefing, impact assessments lies with the Receiving Authority and that is timely informed to Issuing Authority/ his delegate for his information and record. Concerned Dept. Head/ Location IC may be approached for advice on critical jobs requiring decision making and approvals.

i) **Work Delay / Stoppage:** If the work is delayed or stopped for over 2 hours for any reason other than safety consideration, the permit receiver must return the permit to Issuing Authority. Before restarting the job the Issuing Authority shall recheck the condition contained in initial permit and validate the initial permit.







Controlled Copy Do Not Duplicate For Internal Use Only

- i) Work Suspension: The work in progress under the PTW System may be stopped / suspended by the Issuing Authority / Concerned Dept. Head / Location IC/ Location HSE Representative under following circumstances but not limited to:
 - Don observance of any major HSE Non-conformance
 - In event of Emergency
 - * A lapse of two hours from the time Area Authority signed the permit
 - For operational reasons to prevent interaction with another activity
 - Awaiting receipt of materials etc.
- k) Handing Back: Once the job is completed and the area is cleared, the work permit requires handing back. The Receiving Authority will return the hard copy of permit to Issuing Authority after signing it and providing status of job i.e. Complete / Incomplete. The Issuing Authority will then initiate the removal of isolation (if any), verify the work site condition returned to normal and close the permit. The Issuing Authority may carry out the test run of equipment prior to closing the work permit.

The work permit copies will then be exchanged i.e. the card copy will go to Issuing Authority and top page copy to be handed over to Receiving Authority receiver for record. The Issuing Authority will ensure on day to day basis that the relevant record of permits is maintained.

- 1) Permit to Work Documentation: Permit to work documentation shall be subjected to a documentation control process including:
 - Unique reference numbers with traceability within each Dept. / Location
 - Version control
 - Work Permit Log
 - Controlled storage of closed out permits and associated documentation The open & closed permits to be properly segregated in Control Room with record maintained in Work Permit Log on daily basis. The closed permits and supporting certificates / documentation are then maintained in proper file folders. Each Dept. / Location will define the retention period for permit records based on the frequency of issuance.

Note: Maintenance Work Order (MWO) is raised by operations department for corrective/ breakdown maintenance. The MWO unique reference number may be reflected in permit for traceability.

- m) Change of Circumstances/ Scope: When circumstances/ scope is changed, work is stopped. Following are some of the conditions:
 - + Change of Work Scope/ Circumstances: Where the work scope or circumstances change e.g. boundaries of intended job exceeding agreed scope etc., work shall immediately cease and the situation referred back to the Issuing Authority for review and advice. A revised JHA may be carried out to evaluate the change and its impacts.
 - Emergency Situation: In emergency situation, permit shall be suspended until the facility has returned to its normal status. The permit shall be revalidated or reissued prior to work commencement.
 - n) Precautions for Confined Space Entry: A "Confined Space Entry Permit" shall be issued for personnel to enter into the confined space after the following precautions are satisfied:
 - The atmosphere inside the confined space has a normal oxygen content of 20.8% and it is free from toxic vapours and gases.

The personnel shall not enter the confined space if:

- Oxygen content is less than 19.5%.
- Oxygen content is greater than 23.5%.
- Presence of flammable vapours or gases at concentration above the 10% LFL (Lower flammable limit).
- Presence of toxic vapours and gases above the occupational exposure standard for a 10 minute exposure.

Personnel may enter the confined space wearing suitable and approved respiratory equipment if the presence of toxic vapours and gases below the Lower Threshold Limit Value (LTLV).







- o) **Safety System Defeat Certificate:** Safety critical devices are those which are in place to prevent or mitigate the major process accidents. Safety System Critical Defeat Certificate shall be required whenever a safety critical device is to be inhibited and cross referenced in PTW.
- p) **Training and Competence:** Personnel involved in issuing & receiving work permit are formally trained and competent on work permit system. The issuer and receiver should be aware of the following, but not limited to work permit conditions e.g. validity, requirement specific to type of permit, precautions measures; responsibilities of issuing and receiving authority; documentation requirement; and emergency procedures.



OIL & GAS DEVELOPMENT COMPANY	LIMITED		
Ref. Section 07 (Operation) of OGDCL's Integrated HSE System Manual	mission and a second	00	F - HSE - 019(01)
COLD WORK PERMIT		WO No	
cord TBT proceedings on back of the card copy		WP S.No	
<u>TIATION</u>			
rmit Begins Hours Date			
rmit Expires Hours Date			
tended upto Hours Date			
Extended by			
is permit authorizes Mr			-
Section, to perform the following work			
NOTE: Tick Respective one 'Job Type' HSE Fur	nction.		
The second secon	ive Maintenan	ice	
Emergency Shut Down Project/ New Job Product	tive Analysis		
Routine Process Activity Modification Annual	Turn Around		
FETY CHECKLIST			
Tick 'Yes' or 'No' or 'NA' as applicable	Yes	No	NA.
1. Has the Tool Box Talk been conducted?			
2. Is the electrical power of equipment disconnected?		0	
3 Have all valves been closed and tagged?	0		0
4 % equipment depressurized / purged and flashed?			0
5 is equipment under pressure and hor?	9		-
6 is area condition sufficiently open to allow for adequate ventilation?			<u></u>
7 is the levelor locked and tagged? 8 is scalfolding arranged for safe execution of job? (Attach checklist)	H	H	H
9 Is residual tisk (s) in this job acceptable?	= =	H	H
18 Are the barricading and warning signs in place?	-		
11 Is IFA required and attached to complete this job?			
12 Who will monitor the operating conditions?			
13 Eke Highting Arrangements:			
14 Personal Protective Equipment requirements			
		Apron	13
Coverall Gas Mask/ Respirator Safety Shoes/Gues Boots Dust Mask		Ear Multis/Plo	nessý Safety Bell
Rubber/Cotton Gloves Face Shield		SCBA	many assessment
		- Julian	
15 Special Instructions.			
Authorization -> Permit issue Authority Relevant Section		Permit R	eceiver
COMPLETION			
job has been completed and area is cleared for any unwanted material / housekeeping is good enough.			
off inte			
wever the summary of "locidents" encountered during the job is given below:			
Accel Damage Contractor Solal Non-Satal Stret Ald Near Hi	te		
Disyoned District			
Description	- 12		
W-			
		25	
		Verifie	idby:
Signed by Checked by Supervisor/Ferforming Technician Arra Operator		100000000000000000000000000000000000000	Authority



SAFTY CHECKLIST Took Yes' or Not' or Yalf in applicable 1 Has the Troid Boat fash been conducted? 2 Is are a pre-offed with subsplie access and rigness? 3 is are the or Charmacker / conductable access and rigness? 5 is the ord continuous part deviction pre-ord? 5 is the ord protection pre-ord? 6 there operation maintainers and safety anyones a conducted prior pinti impaction? 7 is scatifieding unranged for safe execution of job? [Author deviction pre-ord?] 8 is the advancing provide of continuous parts and propers to an advanced for a secretary of the engineered disconnected? 10 is the advancing power of the engineered day bibriding? 10 is the advancing power of the engineered day to bibriding? 11 Are the conduction subset angol? 12 Working [Jamming organizement less chareked before one and a secretary of the engineered and fluide off at the day of the broader before the secretary of the engineered and fluide off at the day of the secretary of the organizement and fluide off at the day of the secretary of the organizement and fluide off at the day of the secretary of the organizement and fluide off at the day of the secretary of the organizement and fluide off at the day of the secretary of the organizement and fluide off at the day of the secretary of the organizement and fluide off at the organizement of the secretary of the organizement of the secretary of the organizement organizement of the organizement of the organizement organizemen	AN I	OIL	& GAS	DEVELO	OPMEN	т сом	PANY LI	MITED)		
MINITARIN Permit Engine		Ref. Sec	tion 07 (Opera	tion) of OGDC	2.'s integrated	HSE System M	fanual			OGF - H	4SE - 020(01)
MINITARIN Permit Engine				SOU	R/HO	T WO	RK PER	TIM		WO No	
Permit Segins	Record TBT p	proceed	inas on ba		-						
Permit Epipes Extended upto	GNAVO SI GLAVI										
Extended upto	Permit Begins_					Hours Date	e				
Extended upto	Permit Expires_					Hours Date					
This permit authorizes Mr	Extended upto_										
Section, to perform the following work At						Extended	byyd				
NOTE: Tick Respective one 'sob Type' Corrective Maintenance Non Process Activity Preventive Maintenance Corrective Maintenance Project New Job Productive Analysis Routine Process Activity Modification Annual Turn Around PRINCING IMPERION Too carried out before and during the work) MASAURMENT BY	This permit auth	norizes M	r								
NOTE: TICK Respective one Job Type! HSE Function	of	Se	ction, to per	orm the fo	lowing wo	rik					
NOTE: TICK Respective one Job Type! HSE Function											
Corrective Maintenance	At										_
Emergency Shut Down	NOTE: Tick Re	spective o	one 'Job Typ	ď.				HSE Functi	on		
Routine Process Activity				Towns I		COST CONTRACTOR	-			ce	
MEASUREMENT BY. MEASUREMENT BY. STEPS INTERNAL TRANS. SETUR. STEPS INTERNAL TRANS. SETUR. SETUR. STEPS INTERNAL TRANS. SETUR.	2002	OUT OF STREET		OV CALLED	THE PROPERTY OF		2000 1		-		
MEASUREMENT BY TOST PRITORIAL TRANS BESULT TRANS PROJECT T	A STATE OF THE PARTY OF THE PAR	CONTRACTOR STATE	OSCILLATION CO.	No. of Concession, Name of Street, or other Designation of Concession, Name of Street, or other Designation of Concession, Name of Street, Original Concession, Original	SPECIAL PROPERTY.	Birth Market		Annual Tu	n Around		
TEST MITIONAL TRANS TRANS RESULT			o De carried	out before	and during	the work)	2027				
SAPETY CHICKUST Tok "Yes" or "Me" or "Me" in significable 2 is are particled with beein conductorif 2 is are particled with beein conductorif 2 is are particled with beein conductorif 3 is are as the of Tamine the Construction and are only 3 is are as the of Tamine the Construction and are only 4 is the Construction present? 5 is those dywelvers decidable or selection repending is used? 6 it have operation maintenance and usinity employees considered prior pinit imposition? 7 is scatificiding unranged for sale extention of job? (Attach checklat) 8 if the increasing and emerging upon displayed? 9 is the equipment disconcented or completely loadered by billinding? 10 is the electric power of the equipment as forecasted? 11. Are effectived workfalls tagged? 12 whiteling / flurning engialment is the checked before our and are only and are o			RESULT	TRAC	T RESULT	TRAC		TIME	RE SULT	TANE	RESULT
SERTY CHECKUST Tack "Yes" or Mark" in supriscable 1 has the Total Size Tath been conducted? 2 is are as feed of the windship access and upros? 3 is are as feed of the windship access and upros? 4 is the Confisions pot access and upros? 5 is finise deviation present? 6 is finise deviation present? 6 is there operation maintenance and safety engines to conducted prior pintl impection? 7 is suchdeding arranged for safe securities (pilot plantsch checkship) 8 it has explained for safe securities (pilot plantsch checkship) 9 is the explained for safe securities (pilot plantsch checkship) 10 is the electric power of the equipment dest connected? 11 Are decitated wintches tagged? 12 winding (farring argument in the checked before one 13 is the breash blocked or tagged? 14 is the explained plantschip approvent interested the faire one 13 is the breash blocked or tagged? 14 is disposite ventralistics in and around the optigement exalts? 15 is subgroup ventralistics in and around the optigement exalts? 16 is subgroup ventralistics in and around the optigement exalts? 17 is adequate ventralistics in and around the optigement exalts? 18 is the exclusive for the blantschip altered manthy? 19 is the exclusive for the blantschip altered manthy? 10 have of the fermany five Washib analyzed. 21 Every and Protection for the permit? 22 Who will mornite the operating condition: 23 Pressured Protection for the blantschip and the permit of the	S LEE					1000					
Took 'Yes' or 'No' or 'No' a spiritulate' 2 is area precided with wished access and agress? 3 is area free of flammatch conductorif 4 is the Contineurs past destration present? 5 is Book daywhere destration are well? 5 is Book daywhere destration are well? 6 it have operation maintenance and underly originers a considerated prior pinti are position? 7 is scalifieding unimaged for safe exercation of job? (Attach checkhat) 8 Are harmording and worning layer designers a considerated prior pinti are position? 9 is the explainment disconsected or competity located by binding? 10 is the electric power of the equipment disconsected? 11. Are in exclusion states trapped? 12 Westling / fourning equipment to be estracted before the exercised. 13 is the explainment disconsected or congetify. 14 is the explainment disconsected or congetify. 15 is adequate worth about in and around the equipment stade? 15 is adequate worth about in and around the equipment stade? 16 is worth describin states for his words? 17 is adjacent area safe for squark? 18 is the excitagebore if fire bindwell placed mentally? 19 is the Attached with the persettiff. 20 Mane of the foreaum if the Westlich avaigned. 21 Equipment to be use the host work. 22 Who will monitor the operating condition. 23 Fire fighting are argements. 4 Previous of the state of against most requirement. 5 is facilities. 6 Softwy Circles. Authorization — Permit issue Authority. Fire Shield 13 Special how ortices. Authorization — Permit issue Authority. Fire Shield Description: 100 Computer to be used. 14 Previous of Processing of Strain St											
1 has the Tred Bos Table bren conductorif 2 is are a precified with subsidies access and agrees? 3 is areas the of Thamsale of conductabilities materials? 4 is the Confisions present? 5 is Bose day where octical are weldings is use? 6 three operation maintenance and unless progress v conducted prior point importance? 7 is scaffeding arranged for safe execution of job full chasch checkball 8 is the besticating and wenting wigh editory and progress v conducted prior point importance? 9 is the equipment disconnected or conspletely indicated by blanding? 10 is the alreading prior of the equipment disconnected? 11 Are electrical switches tagged? 12 Westing if surring requipment to the checked before use 13 is the breaker blocked or tagged? 13 is the department of the confision and alleaded? 14 is the equipment are safe for speak? 15 is wired direction vast after for hot work? 17 is indiportin are a safe for speak? 18 is the equipment to be case of the engineering or and the engineering that are safe? 19 is a the progression of the engineering that one of the engineering that one of the engineering is an advantaged. 19 is the disposance degree out and flushed? 10 is the disposance of the engineering the engineering that are safe? 11 is the disposance of the engineering or the engineering that the	SAFETY CHECKL	IST									
2 is area precided with substite access and egrees? 3 is area the of flammable / combutatible materials? 4 is the Continuous parter don present? 5 is Boar day where obsticial are velidings used? 6 It two operation maintenance and substite substite of prior joint impaction? 7 is scalindeling antanged for safe execution of job? (Attach checkbat) 8 Are barricating, and warring signs displayed? 9 is the equipment disconnected or completely included by planding? 10 is the electrical workfoles tagged? 11 Are incinital workfoles tagged? 12 Wesking / Surring requipment to be checked before use 13 is the breaker blocked or capged? 14 is the equipment dispressus cold and flambed? 15 is adequate world also in and account the cognizement seade? 16 is overed disconnected or completely included by planding? 18 is the requipment dispressus cold and flambed? 19 is the pressure world also in one of account the cognizement seade? 10 is obting the complete of the cognizement seade? 11 is adequate world also in one of account the cognizement seade? 12 is to substitute the priority? 13 is adequate world also in one of account the cognizement seade? 14 is the requipment dispressure of a cognity? 15 is adequate world also in one of account the cognizement seade? 16 is overed dispressured. 17 is adaption to be use in bot work? 28 the register of the equipment requirement. 29 First Fighting paragraphment. 20 First Fighting paragraphment. 20 First Fighting paragraphment. 20 First Fighting paragraphment. 21 Experiment to be use in bot work. 22 Move will connote the operating condition. 23 First Fighting paragraphment. 24 Personal Protective Glosses. Authorization Permit Issue Authority. Permit Issue Authority				00000000							
### to suralize and warring upon displayed ### ###										- 1	
### to suralize and warring upon displayed ### ###										H	H
### to suralize and warring upon displayed ### ###											
### State barricating and warring signs displayed? ### Are barricating and warring signs displayed? ### 5 to be equipment disconnected or completely introduced by trinding? #### 10 to the equipment disconnected or completely introduced by trinding? ##### 11 Are electrical workcless tagged? ###################################										-	
19 is SEA strached with the permit? 20 Name of the freman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23. Fire Faging arrangements: 24. Personal Protective Equipment requirement 15 tokins 16 Coverall 18 Safety Shoety Sum Boots 18 Safety Shoety Sum Boots 18 Subseq Cottes Ginnes 19 Special both octions. Authorization Permit Issue Authority Believent Section Plantic Receives Doc COMPLETION This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Time Name Damage Fatal filter Fatal							if impection?		H		H
19 is 84% attached with the permit? 20 Nasse of the foreman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23 Fire Egisting arrangements; 24 Personal Protective Equipment enquirement 1 technot 1 Coverall 1 Coverall 1 Safety Shoety Suney South 1 Safety Shoety Suney South 1 Special both uctions. Authorization > Permit Issue Authority Dest Mask Register Safety Set						SHORISE			H	70	H
19 is 84% attached with the permit? 20 Nasse of the foreman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23 Fire Egisting arrangements; 24 Personal Protective Equipment enquirement 1 technot 1 Coverall 1 Coverall 1 Safety Shoety Suney South 1 Safety Shoety Suney South 1 Special both uctions. Authorization > Permit Issue Authority Dest Mask Register Safety Set						blinding#:			<u>-</u>	ō	6
19 is 84% attached with the permit? 20 Nasse of the foreman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23 Fire Egisting arrangements; 24 Personal Protective Equipment enquirement 1 technot 1 Coverall 1 Coverall 1 Safety Shoety Suney South 1 Safety Shoety Suney South 1 Special both uctions. Authorization > Permit Issue Authority Dest Mask Register Safety Set	10 h	the electric	power of the e	quipment disc	connected?						
19 is 84% attached with the permit? 20 Nasse of the foreman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23 Fire Egisting arrangements; 24 Personal Protective Equipment enquirement 1 technot 1 Coverall 1 Coverall 1 Safety Shoety Suney South 1 Safety Shoety Suney South 1 Special both uctions. Authorization > Permit Issue Authority Dest Mask Register Safety Set											
19 is 84% attached with the permit? 20 Nasse of the foreman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23 Fire Egisting arrangements; 24 Personal Protective Equipment enquirement 1 technot 1 Coverall 1 Coverall 1 Safety Shoety Suney South 1 Safety Shoety Suney South 1 Special both uctions. Authorization > Permit Issue Authority Dest Mask Register Safety Set					ed before use				H	H	-
19 is 84% attached with the permit? 20 Nasse of the foreman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23 Fire Egisting arrangements; 24 Personal Protective Equipment enquirement 1 technot 1 Coverall 1 Coverall 1 Safety Shoety Suney South 1 Safety Shoety Suney South 1 Special both uctions. Authorization > Permit Issue Authority Dest Mask Register Safety Set					rd?				- 5	6	5
19 is SEA strached with the permit? 20 Name of the freman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23. Fire Faging arrangements: 24. Personal Protective Equipment requirement 15 tokins 16 Coverall 18 Safety Shoety Sum Boots 18 Safety Shoety Sum Boots 18 Subseq Cottes Ginnes 19 Special both octions. Authorization Permit Issue Authority Believent Section Plantic Receives Doc COMPLETION This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Time Name Damage Fatal filter Fatal	15 k	adequate v	entitation in an	d around the	oguspment ma	de?					
19 is SEA strached with the permit? 20 Name of the freman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23. Fire Faging arrangements: 24. Personal Protective Equipment requirement 15 tokins 16 Coverall 18 Safety Shoety Sum Boots 18 Safety Shoety Sum Boots 18 Subseq Cottes Ginnes 19 Special both octions. Authorization Permit Issue Authority Believent Section Plantic Receives Doc COMPLETION This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Time Name Damage Fatal filter Fatal											<u>_</u>
19 is SEA strached with the permit? 20 Name of the freman / Fire Watch assigned 21. Equipment to be use inhot work; 22. Who will monitor the operating condition: 23. Fire Faging arrangements: 24. Personal Protective Equipment requirement 15 tokins 16 Coverall 18 Safety Shoety Sum Boots 18 Safety Shoety Sum Boots 18 Subseq Cottes Ginnes 19 Special both octions. Authorization Permit Issue Authority Believent Section Plantic Receives Doc COMPLETION This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Time Name Damage Fatal filter Fatal	1000		THE RESERVE OF THE PARTY OF THE		Turbuit				H	-	H
20 Name of the freman / five Wasch assigned. 21 Equipment to be use in-hor work: 22 Who will monitor the operating condition: 23 Fire Fighting arrangements: 24 Personal Protective Equipment requirement. Yokinot					attribut.					E/A	H
22 Who will monitor the operating condition: 23 Fire Egipting arrangements: 24 Personal Protective Equipment (equipment) 15 Solinot Governal Googles Aprion 15 Solinot Governal Googles Aprion 15 Solinot Governal Gov					di						
23 Fire Egypting arrangements: 24 Personal Protective Equipment requirement 15 Solinty Shoey/Gum Boots Solinty Shoey/Gum Boots Rudber/Cotton Gines 13 Special Invitation Permit Issue Authority Belleving Sortion Face Shield SCBA 13 Special Invitation Permit Issue Authority Belleving Sortion Permit Issue Authority Belleving Sortion Permit Issue Authority Description Fire Shield SCBA 13 Special Invitation Permit Issue Authority Belleving Sortion Permit Received Description Fire Stall Invited Fire Authority Signed by Supervisor/Performing Technician Signed by Supervisor/Performing Technician Area Operator Area Operator Receiving Authority											
24 Personal Protective Equipment requirement Goggles Agron Sofiety Stock/Gum Boots Dust Mask Full Books Full Books Starty Stifty Stock/Gum Boots Dust Mask Full Books Full Books Starty Stifty St				ng condition:						-	
technot Goggles Apron Coverall Class Mask Full Books F		THE RESERVE OF THE PERSON NAMED IN		nd requireme	nd.						
Sofety Shoes/Gum Boots Duet Mask Full Body Hamess/ Safety Selfs Bushing Cotton Gines Face Shield SCDA 13 Special Entraction Permit Issue Authority Bellevinin Section Permit Received							Goggles			Артоп	
Rushber/Cotton Cloves Face Shield SCDA 13 Special levir uctions Permit Issue Authority Bellevant Section Parmit Receive 108 COMPLETION This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Time Nowwest the summary of "incidents" encoundered disting the job is given below: A tent Damage Facal North Partial From Aid North Partial [Tick/Cross] Description: Signed by Verified by Supervisor/Performing Exchnician Area Operator Receiving Authority Supervisor/Performing Exchnician Area Operator Receiving Authority							Clas Mask/ Res	pirator		THE RESERVE TO SERVE THE PARTY OF THE PARTY	The state of the s
Authorization > Permit Issue Authority Britannia Section Permit Received Discompleted and area is cleared for any unwanted material / housekeeping is good enough.											nessy/ Safety/Belt
Authorization Permit issue Authority Pelwant Section Parmit Recover Dos COMPLETION This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Doto/Tane Nowever the summary of "incidents" encountered disting the job is given below: A deat Damage Final Final Final Final Final Description: Signed by Checked by Verified by Supervisor/Performing Technician Area Operator Receiving Authority				Gloves			Face Shield			SCHA	
This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Tane - however the summany of "incidents" encountered during the job is given below: - Aries Darrage - Environment - Fotal filter-Fotal First Aid Near His - Click/Cross) - Description: - Signed by - Si	13.5	pecal twice	etions			_				-	
This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Time Reserve the summary of "incidents" encountered during the job is given below: A deat Darrage Environment Fatal filter		Autho	rization ->	Permit Issue	Authority	(8	elevent Section			Plennin Na	cervic
This job has been completed and area is cleared for any unwanted material / housekeeping is good enough. Date/Tane											
Date/Time: Nowever the summary of "incidents" encountered during the job is given below: A dest Darrogs	OB COMPLETIO	N.									
Signed by Supervisor Performing Technician Area Operator Receiving Audionity		impleted an	durea is cleare	for any unw	anted material	/ housekeepin	ng is good enoug	fi.			
Asian Darrogs Environment Fotal Name Field First Aid Near Hits [Tick/Cross] Description: Signed by Checked by Verified by Supervisor/Performing Technician Area Operator Receiving Authority	THE R. P. LEWIS CO., LANSING, SPINSTER, SPINST	anual Secie	and the second second	and discharge the	tolk in place. In	down					
Click/Cross) Description: Signed by Checked by Verified by Supervisor/Performing Fechnician Area Operator Receiving Authority	The same	A DE MARKE		Environment			First Aud	New Park			
Signed by Checked by Verified by Supervisor/Performing Technician Area Operator Receiving Authority		(Tick/Cycle)	_	Davings	73581	The state of the s	1	times (1918)	1		
Signed by Verified by Verified by Supervisor/Performing Technician Area Operator Receiving Authority											
Supervisor/Performing Fechnician Area Operator Receiving Authority	3.	Description									
Supervisor/Performing Fechnician Area Operator Receiving Authority											
Supervisor/Performing Fechnician Area Operator Receiving Authority								-			
Supervisor/Performing Fechnician Area Operator Receiving Authority	- 2						- 5				8
	Specia										
ALL WORK PERMIT AREAS ARE NON-SMOKING AREAS	- April 1	,	_		ERMIT AD		-	KING A		- Indiana	-



OIL &	GAS DEVELO	PMENT CON	IPANY LIMI	TED	
Ref. Section 07 (Operation)	of OGDCL's Integrated H	SE System Manual		QGF -	-HSE -021(01)
	ELECTRICA	L WORK PE	RMIT	WO No	
cord TBT proceedings on bac	k of the card cop	v		WP S.No	
TIATION					
mit Begins		Hours Date			
rmit Expires		Hours Date			
tended upto		Hours Date			
COMMON NE		Extended by			
s permit authorizes Mr		- 17			
section, to perfor	rm the following work				
NOTE: Tick Respective one 'Job Type'		-	HSE Function		
Corrective Maintenance	Non Proces	s Activity	Preventive Main	tenance	
☐ Emergency Shut Down	Project/Ne	Control of the Contro	Productive Analy	rsis	
Routine Process Activity	☐ Modificatio	n E	Annual Turn Aro	und	
FETY CHECKLIST					
Tick 'Yes' or 'No' or 'NA' as applic	cable		Yes	No	NA
1 Has the Tool Box Talk been cor			1		0
2 Has the equipment been prop	Maria Contraction and April 1997	17	(1)		
3 Is the breaker locked and tagg		CARSON TO			
4 If not, have the circuit breaker					岩
5 Have you ensured that the equ			i 5	1 11	
6 Has the equipment where wor Performing Technician?	ix is to be done identified t	by the	138	1 10	THE STATE OF THE S
7 Will the Electricise work on live	e circuit?				H
B Has Explosivity in the area bee		on live circuit?	i	3 8	- F
9 Has a stand by maintenance po			1		
10 Have you instructed the Electri		Control of the second of the s	1		
11 Have you instructed the Electri	ician to use insulated elect	rical tools?	1		
12. Have the unit affected by the v	work been 'notified'?		117		
13 Is scaffolding arranged for safe		checklist)			
34 Is JHA required and attached to			(3		
15. Who will monitor the operation	ng conditions?				
16 Fire Fighting arrangements:					
18 Reference of Power Isolation S	Sin & to/to-				-
19 Personal Protective Equipment					
Helmet		Goggles	i	Apron	
Coverall		Gas Masily	Bespirator [Ear Mulfs/PI	ugs
Safety Shoes/Gu	em Boots	Dust Mask	[Full Body Har	ness/Safety Belt
Rubber/Cotton (Gloves	Face Shield		SCBA	
20 Special Instructions.					
Authorization -> P	ermit house Berthorth	IC Electrical / Shift	Cosineer		forming Technician
- Lab		it, Detolitary sont	engineer	Supervoorre	torning recurrican
B COMPLETION					
job has been completed and area is cleared	for any unwanted materia	/housekeeping is good	enough.		
/Time					
vever the summary of "incidents" encountere	nulronmant.				
Asset Damage	Damage Futal	Non-Fatal First Aid	Near Hite:		
(Tick/Cross)	100000				
Description					
2000000000					
-	ė.	100000000000000000000000000000000000000		COMP. NO.	
Signed by		Checked by		Verified by	
Supervisor/Performing Technician	ORK PERMIT AREA	Area Operator		Her eiving Aut!	1



Red. Section 07 (Speration) of OGDC1's Integrated IRSE System Manual CONFINED SPACE / VESSEL ENTRY PERMIT Record TBT proceedings on back of the card copy WP S.No	
NOTE: Tick Respective one 'Job Type'	
NOTE: Tick Respective one 'lob Type'	
Hours Date Hours Date Premit Regins Hours Date Extended upto Process Activity Preventive Maintenance Non Process Activity Preventive Maintenance Remergency Shut Down Project/ New Job Productive Analysis Routine Process Activity Modification Annual Turn Around Modification Modification Annual Turn Around Modification	
Permit Begins	
Permit Expires	
Extended upto	
Extended by	
This permit authorizes Mr. section, to perform the following work	
NOTE: Tick Respective one 'Job Type' Corrective Maintenance Non Process Activity Preventive Maintenance Routine Process Activity Preventive Maintenance Productive Analysis Routine Process Activity Modification Annual Turn Around Annual Turn Around PREVENTION To be carried out before and during the work) MEASUREMENT BY DATE Modification DATE DA	7.5
NOTE: Tick Respective one 'Job Type' Corrective Maintenance Non Process Activity Preventive Maintenance	
NOTE: Tick Respective one 'Job Type' Corrective Maintenance Non Process Activity Preventive Maintenance Emergency Shut Down Project/ New Job Productive Maintenance Emergency Shut Down Project/ New Job Productive Maintenance Routine Process Activity Modification Annual Turn Around PERODIC INSPECTION: (To be carried out before and during the work) MEASUREMENT BY DATE	
NOTE: Tick Respective one 'Job Type' Corrective Maintenance Non Process Activity Preventive Maintenance Emergency Shut Down Project/ New Job Productive Maintenance Emergency Shut Down Project/ New Job Productive Maintenance Routine Process Activity Modification Annual Turn Around PERODIC INSPECTION: (To be carried out before and during the work) MEASUREMENT BY DATE	
Corrective Maintenance Non Process Activity Preventive Maintenance Emergency Shut Down Project / New Job Productive Analysis Routine Process Activity Modification Annual Turn Around PERODIC INSPECTION: (To be carried out before and during the work) MEASUREMENT BY DATE SENTITUDE RESULT TIME RESULT TIME RESULT TIME RESULT TIME RESULT TIME SENTITUDE RESULT TIME RESULT TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result Result TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result Result TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result Result TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result Result TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result Result TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result Result TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result RESULT TIME RESULT TIME RESULT TIME SAFITY CHECKLIST Result RESULT TIME RESULT TIME SAFITY CHECKLIST Result Result RESULT TIME RESULT TIME SAFITY CHECKLIST Result Re	
Emergency Shut Down Project/ New Job Productive Analysis Routine Process Activity Modification Annual Turn Around PERODIC INSPECTION: (To be carried out before and during the work) MEASUREMENT BY DATE STATEMAN TIME RESULT TIME	
Routine Process Activity Modification Annual Turn Around PERDDIC INSPECTION: (To be carried out before and during the work) MEASUREMENT BY DATE SINTERNA INME RESULT INME SESULT INME RESULT INME SET INTERNA INME RESULT INME RESULT INME RESULT INME SAFTY CHECKLIST INME RESULT INME RESULT INME RESULT INME SAFTY CHECKLIST INME RESULT INME RESUL	
MEASUREMENT BY MEASUREMENT BY DATE STRICTEMAL THANE RESULT THANE SESULT THANE RESULT THANE THANE	
MEASUREMENT BY SISTINGENAL TIME RESULT TI	
SAFETY CHECKUST TIME RESULT TIME RES	
SAFETY CHECKUST Tick 'Yes' or 'No' or 'NA' as applicable 1 Has the Tool Box Talk been conducted? 2 Has Worker received safety training? 3 is electrically driven equipment disconnected? 4 Are electrical switches tagged? 5 is the breaker locked and tagged? 6 Are all lines disconnected or blinded? 7 Are all valves closed and in-botween bleeders opened? 8 is the equipment depressuried, flushed and purged? 9 is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 is the person fit for entry? 11 is work site barricaded and warning signs posted? 12 is any sludge or nat present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Resour/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment required by Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Rubber/Coronal Gas Mask/ Respirator Ear Muffix/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Subser/ Sched SCBA 21 Special Instructions. Authorization. Permit beaus Authority Relevant Section Pormit Relevant Section Does COMPLETION This entry-job has been completed and area has been cleared. Date/Time Danger Damage Fastal Nos-fastal First Ald Near Hiss.	
SAFETY CHECKLIST Tick "Yes" or "No" or "NA" as applicable 1 Has the Tool Box Talk been conducted? 2 Has Worker received safety training? 3 Is electrically driven equipment disconnected? 4 Are electrical switches tagged? 5 Is the breaker locked and tagged? 6 Are all lines disconnected or blinded? 7 Are all valves closed and in-between bleeders opened? 8 Is the equipment depressurized, flushed and purged? 9 Is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 Is the person fit for entry? 11 Is work site berricaded and warning signs pooted? 12 Is any sludge or rust present? 13 Is the vessel cold enough to enter? 14 Is adequate ventilation and lighting (24 Vi arranged?) 15 Name of the Standby/Resous/Pirema assigned 16 Protective Equipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Tighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Authorization Personit Insus Authority Relevante Section Pearmit New Events Does COMPLETION This entry-job has been completed and area has been cleared. Date/Time Damage Damage Fatel New-Futst First Add Reservition	RESULT
Tick 'Yes' or 'No' or 'NA' as applicable 1 Has the Tool Box Tall been conducted? 2 Has Worker received safety training? 3 Is electrically driven equipment disconnected? 4 Are electrical switches tagged? 5 Is the breaker locked and tagged? 5 Is the breaker locked and tagged? 6 Are all lines disconnected or blinded? 7 Are all valves closed and in between bleeders opened? 8 Is the equipment depressurized, flushed and purged? 9 Is the atmosphere around lincluding wind direction, explosive gas leakage) suitable for entry? 10 Is the person fit for entry? 11 Is work site barricaded and warning signs posted? 12 Is any sludge or rust present? 13 Is the vessel cold enough to enter? 14 Is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standy/Resous/Fireman assigned 16 Protective Equipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement. Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harnesy/ Saf Rubber/Cotton Gloves Personal Protective Equipment requirement. Helmet Goggles Apron Safety Shoes/Gum Boots Dust Mask Full Body Harnesy/ Saf Rubber/Cotton Gloves Personal Protective Equipment requirement. Personal Protective Equipment requirement. Personal Protective Equipment Protective Equipment Reviews Section Reviews Heaviews Secti	
Tick "Yes" or "No" or "NA" as applicable 1. Has the Tool Box Talk been conducted? 2. Has Worker received safety training? 3. Is electrically driven equipment disconnected? 4. Are electrical switches tagged? 5. Is the breaker locked and tragged? 6. Are all lines disconnected or binded? 7. Are all valves closed and in-between bleeders opened? 8. Is the equipment depressurized, flushed and purged? 9. Is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10. Is the person fit for entry? 11. Is work site barricaded and warning signs posted? 12. Is any sludge or rust present? 13. Is the vessel cold enough to enter? 14. Is adequate ventilation and lighting (24 V) arranged? 15. Name of the Standby/Rescue/Fireman assigned 16. Protective Equipment required? 17. Is JifA required and attached to complete this job? 18. Who will monitor the operating conditions? 19. Fire Fighting Arrangements: 20. Personal Protective Equipment requirement. Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harnese/ Saf 21. Special Instructions. Authorization — Petrolit Natur Authority Residuality Section Formit Nockeyet DOB COMPLETION This entry-job has been completed and area has been cleared. Damage Damage Fatel Nee-fatel First Alid Nee-Hits Downeyer the summary of "incidents" encountered during the job is given below- Damage Damage Fatel Nee-fatel First Alid Nee-Hits Downeyer Damage Fatel Nee-fatel First Alid Nee-Hits Damage Damage Fatel Nee-fatel First Alid Nee-Hits	
1 Has the Tool Box Talk been conducted? 2 Has Worker received safety training? 3 Is electrically driven equipment disconnected? 4 Are electrical switches tagged? 5 Is the breaker locked and tagged? 5 Is the breaker locked and tagged? 6 Are all lines disconnected or blinded? 7 Are all valves closed and in-between bleeders opened? 8 Is the equipment depressurited, flushed and purged? 9 Is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 Is the person fit for entry? 11 Is work site barricaded and warning signs posted? 12 Is any sludge or rust present? 13 Is the vessel cold enough to enter? 14 Is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: Helmet	(80)
2 Has Worker received safety training? 3 Is electrically driven equipment disconnected? 4 Are electrical switches tagged? 5 Is the breaker locked and tagged? 6 Are all lines disconnected or blinded? 7 Are all valves closed and in-between bleeders opened? 8 Is the equipment depressurized, flushed and purged? 9 Is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 Is the person fit for entry? 11 Is work site barricaded and warning signs posted? 12 Is any sludge or nust present? 13 Is the vessel cold enough to enter? 14 Is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Pireman assigned 16 Protective Squipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Face Shield SCBA 21 Special Instructions. Authorization Permit Islaies Authority Reservant Section Parmit Islaedener Damage Demage Fetal Nee-Fistal First Ald Fleer Hits Damage Demage Fetal Nee-Fistal First Ald Fleer Hits	IA.
3 is electrically driven equipment disconnected? 4 Are electrical switches tagged? 5 is the breaker locked and tagged? 6 Are all liese disconnected or blinded? 7 Are all valves closed and in-between bleeders opened? 8 is the equipment depressurized, flushed and purged? 9 is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 is the person fit for entry? 11 is work site barricaded and warning signs posted? 12 is any sludge or nat present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/ Resour/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet	3
4 Are electrical switches tagged? 5 Is the breaker locked and tagged? 6 Are all lines disconnected or blinded? 7 Are all valves closed and in-between bleeders opened? 8 Is the equipment depressurized, flushed and purged? 9 Is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 Is the person fit for entry? 11 Is work site barricaded and warning signs posted? 12 Is any sludge or nat present? 13 Is the vessel cold enough to enter? 14 Is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Resoue/Fireman assigned 16 Protective Equipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Rubber/Cotton Gloves Face Shield SCBA 21 Special instructions. Authorization Person Rubber Countered during the job is given below- Asket Environment Feat Nee-Fatal First Ald Name Hits Damage Damage Feat Nee-Fatal First Ald Name Hits Damage Damage Feat Nee-Fatal First Ald Name Hits	J.
5 is the breaker locked and tagged? 6 Are all lines disconnected or blinded? 7 Are all valves closed and in-between bleeders opened? 8 is the equipment depressurized, flushed and purged? 9 is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 is the person fit for entry? 11 is work size barricaded and warning signs posted? 12 is any sludge or rust present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and statched to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement. Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Face Shield SCBA 21 Special instruction Permit Issue Authority Rickward Section Point Receiver OB COMPLETION his entry-job has been completed and area has been cleared. Intel/Time Domage Domage Fetal Noe-Fistal First Aid Near Hits Domage Domage Fetal Noe-Fistal First Aid Near Hits	3
6 Are all lines disconnected or blinded? 7 Are all valves closed and in-between bleeders opened? 8 is the equipment depressurized, flushed and purged? 9 Is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 is the person fit for entry? 11 is work site barricaded and warning signs posted? 12 is any sludge or rust present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggées Apron Coverall Gas Mask/ Respirator Ear Muffis/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Face Shield SCBA 21 Special Instructions. Authorization Primit Issue Authority Relevant Sections Permit Beceiver OB COMPLETION his entry-job has been completed and area has been cleared. intelTime Downeyer the summary of 'incidents' encountered during the job is given below: Asset Environment Fetal Near-Intal First Add Near-Hits Downeyer Domneyer Permit Reservant	
7 Are all valves closed and in-between bleeders opened? 8 is the equipment depressurized, flushed and purged? 9 is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 is the person fit for entry? 11 is work site barricaded and warning signs posted? 12 is any sludge or rust present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Pireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf 21 Special instructions. Permit haus Authority Relevant Section Pormit Inscelled OB COMPLETION his entry job has been completed and area has been cleared. Damage Damage Damage Petal Nee-Fatal First Ald Naer Hits. Damage Damage Damage	
8 is the equipment depressurized, flushed and purged? 9 is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 is the person fit for entry? 11 is work site barricaded and warning signs posted? 12 is any sludge or rust present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Pace Shield SCBA 21 Special instructions. Authorization Permit Heicehset OB COMPLETION This entry-job has been completed and area has been cleared. Date/Time Journal First Ald Respirator Last Environment Fatal Nee-Fatal First Ald Respirator Damage Fatal Nee-Fatal First Ald Respirator Basel Environment Fatal Nee-Fatal First Ald Respirator	
9 Is the atmosphere around (including wind direction, explosive gas leakage) suitable for entry? 10 Is the person fit for entry? 11 Is work site barricaded and warning signs posted? 12 Is any sludge or rust present? 13 Is the vessel cold enough to enter? 14 Is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Face Shield SCBA 21 Special Instructions Authorization Playing Maller Authority Ruberus Section Pormit for collective Domoge Completed and area has been cleared, Date/Time Jones of Domoge Fatel Nee-Fatel First Ald Reserving Domoge Domoge Fatel Nee-Fatel First Ald Reserving Domoge Domoge Fatel Nee-Fatel First Ald Reserving Domoge Domoge Fatel Nee-Fatel First Ald Reserving	뷀
11 is work site barricaded and warning signs posted? 12 is any sludge or rust present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting [24 V] arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safety Shoes/	4
11 is work site barricaded and warning signs posted? 12 is any sludge or rust present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting [24 V] arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safety Shoes/	4
12 is any sludge or rust present? 13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Rubber/Cotton Gloves Face Shield SCBA 21 Special Instructions. Authorization -> Permit Insur Authority Ruberuary Section Primit Rev elves Description Primit Rev elves Asset Environment Damage Damage Fatal Nee-Fatal First Aid Nee-Fittal First Aid Nee-Fittal	텧
13 is the vessel cold enough to enter? 14 is adequate ventilation and lighting (24 V) arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Face Shield SCBA 21 Special Instructions. Authorization Purmit Issue Authority Relevant Section Relater/Time Sowever the summary of 'incidents' encountered during the job is given below- Asset Environment Demage Demage Fatel Nee-Fatel First Ald Neer Hits Demage Demage Fatel Nee-Fatel First Ald Neer Hits	4
14 is adequate ventilation and lighting [24 V] arranged? 15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Ear Muffs/Plugs Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Face Shield SCBA 21 Special Instructions. Authorization Permit have Authority Relevant Section Point Receives OB COMPLETION his entry-job has been completed and area has been cleared. Parmit Receives Asset Environment Fatel New-Fatel First Ald New Hiss Damage Damage Fatel New-Fatel First Ald New Hiss Damage Damage Fatel New-Fatel First Ald New Hiss	5
15 Name of the Standby/Rescue/Fireman assigned 16 Protective Equipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safety Special Instructions. Authorization Permit Issue Authority Researce Section Permit Issue Authority Researce Section Researce Section Formit Received OB COMPLETION Instructions Damage Damage Fatel New-Fatal First Ald Finer Hits	-
16 Protective Equipment required? 17 Is JHA required and attached to complete this job? 18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Schield SCBA 21 Special Instructions Authorization Fermit Issue Authority Resource Section Parmit Receives OB COMPLETION his entry-job has been completed and area has been cleared, late/Time Newver the summary of 'incidents' encountered during the job is given below: Asset Environment Damage Damage Fatel Nine-Fatel First Aid Near Hiss Damage Damage Fatel Nine-Fatel First Aid Near Hiss Damage Damage Fatel Nine-Fatel First Aid Near Hiss	
18 Who will monitor the operating conditions? 19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Safe Rubber/Cotton Gloves Pace Shield SCBA 21 Special Instructions Authorization Permit have Authority Relevant Section Promit Receives OB COMPLETION his entry-job has been completed and area has been cleared. Intel® Time Nowever the summary of 'incidents' encountered during the job is given below: Asset Environment Damage Damage Petal New-Fetal First Aid Near Hits	1
19 Fire Fighting Arrangements: 20 Personal Protective Equipment requirement Helmet Goggles Apron Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Pace Shield SCBA 21 Special Instructions Authorization Permit have Authority Receiver Section Promit Receiver OB COMPLETION his entry-job has been completed and area has been cleared. late/Time Bowever the summary of 'incidents' encountered during the job is given below: Asset Environment Fatal New-Fatal First Aid Near Hits	1
Description	
Helmet Goggles Apron	
Coverall Gas Mask/ Respirator Ear Muffs/Plugs Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Pace Shield SCBA 21 Special Instructions Authorization > Plemit Issue Authority Relevant Section Parmit Receives OB COMPLETION his entry-job has been completed and area has been cleared. Intelligence The Summary of Incidents' encountered during the job is given below: Asset Environment Patel New-Fetal First Aid Near Hits Damage Damage Patel New-Fetal First Aid Near Hits	
Safety Shoes/Gum Boots Dust Mask Full Body Harness/ Saf Rubber/Cotton Gloves Pace Shield SCBA 21 Special Instructions Authorization > Permit Issue Authority Relevants Section Permit Receives OB COMPLETION This entry-job has been completed and area has been cleared. Date/Time Bowever the summary of 'incidents' encountered during the job is given below: Asset Environment Patal Non-Fatal First Aid Near Hits	
Rubber/Cotton Gloves Face Shield SCBA 21 Special Instructions Permit Insur Authority Rubevium Section Permit Receives OB COMPLETION his entry-job has been completed and area has been cleared, late/Time	
Authorization Permit have Authority Relevant Section Parmit Receives OB COMPLETION his entry-job has been completed and area has been cleared, late/Time Bowever the summary of 'incidents' encountered during the job is given below: Asset Environment Fatal Nee-Fatal First Aid Near Hits	fety Belt
Authorization Permit have Authority Relevant Section Parmit Receives OB COMPLETION his entry-job has been completed and area has been cleared, bate/Time Bowever the summary of 'incidents' encountered during the job is given below: Asset Environment Patel Non-Fetal First Aid Near Hits Damage Damage Patel Non-Fetal First Aid Near Hits	
OB COMPLETION This entry-job has been completed and area has been cleared. Date/Time	
his entry-job has been completed and area has been cleared. ste/Time	
his entry-job has been completed and area has been cleared. late/Time	
his entry-job has been completed and area has been cleared, iste/Time lowever the summary of "incidents" encountered during the job is given below Asset Environment Fetal Neo-Fetal First Ald Neer Hits Demogr	
ovever the summery of "incidents" encountered during the job is given below. Asset Environment Fetal Neo-Fetal First Ald Neer Hits Damage Damage	
owever the summery of "incidents" encountered during the job is given below Asset Environment Fetal Neo-Fetal First Aid Neer Hits Damage Damage Damage	
Asset Environment Fetal Non-Fetal First-Ald Neer Hits Demage Damage	
Damage Damage	
Description:	
X	
2 2 2 3 3	
Signed by Checked by Verified by	
Supervisor/Performing Technician Area Operator Receiving Authority ALL WORK PERMIT AREAS ARE NON-SMOKING AREAS	



Ref. Section 07 (Operation) of OSDCL's Integrated i	HSE System Manual		OGF -	- HSE - 023(01)	
100	aphy Work	Permit		WO No	o bell to set Car
ecord TBT proceedings on back of the card				WP S.No	
erriation	copy		_	HT 3.100	
ermit Begins	Hause Date				
VX (AX) (A) (A)	WIENERS CO.				
ermit Expires					- 1
stended upto					
2135.000.000.000.000.000.00	Extended by				-
his permit authorizes Mr	NO CONTRACTOR OF THE CONTRACTO			-	
f section, to perform the following	work				
W.					
NOTE: Tick Respective one 'Job Type'		☐ HSE Function	on .		
A STATE OF THE PARTY OF THE PAR	Process Activity	☐ Preventive		ce	
☐ Emergency Shut Down ☐ Proje	ct/ New Job	Productive	Analysis		
Routine Process Activity Modi	fication	Annual Tur	n Around		
ERODIC INSPECTION (To be carried out before and du	ring the work)				
AFETY CHECKLIST			200		110000
Tick 'Yes' or 'No' or 'NA' as applicable			Yes	No	NA
1 Has the Tool Box Talk been conducted?					
2 K the rading aphy sources adequate for the job?					
Are all radiographers qualified "Registered" person	na?				
4 Are all radiographers wearing film badges?					
5 is audible warning system available?					
 h radiation survey meter/desimeter calibrated? h adequate lighting in place? 			H	H	H
8 Has the radiation zone been posted?					
9 Have radiation zone been barricaded/ cordoned o	117				
10 is flashing light / beacon in place?					
11. K scaffolding arranged for safe execution of job? (Attach dieddist)				
12 h BIA required and attached to complete this job?					
13 Who will monitor the operating conditions?					
14 Name of the stand by person assigned					
15 Fire Fighting arrangements:				-	
16 Personal Protective Equipment requirement Hidmet	Contract Contract		0	Apran	
Coveral	Gogdi	nk/Respirator		Ear MuffiyPlu	44.7
Salety Shoes/Corn Boots	Duvi fo	All the second second second second		Full Body Hirm	Marine and
Heat/Cotton Gloves	Face S			SUBA	and men
17 Special Instructions.	117-127-12000				
17 special instructions.					
Authorization -> Permit Issue Auth	ority Malesta	Serties		uronit Nacador	
DB COMPLETION					
is job has been completed and area is clear for any unwanted mate	erial/housekeeping is good o	nough.			
ate/Time					
owever the summary of "Incidents" encountered during the job is g	iven below:				
Asset Durwege Durwege Fe	ted from-Ferral From	And Nearthern			
[Tidy/Cross)					
Description		-			
%		- 1			
Signed by	Checked by			ied by	



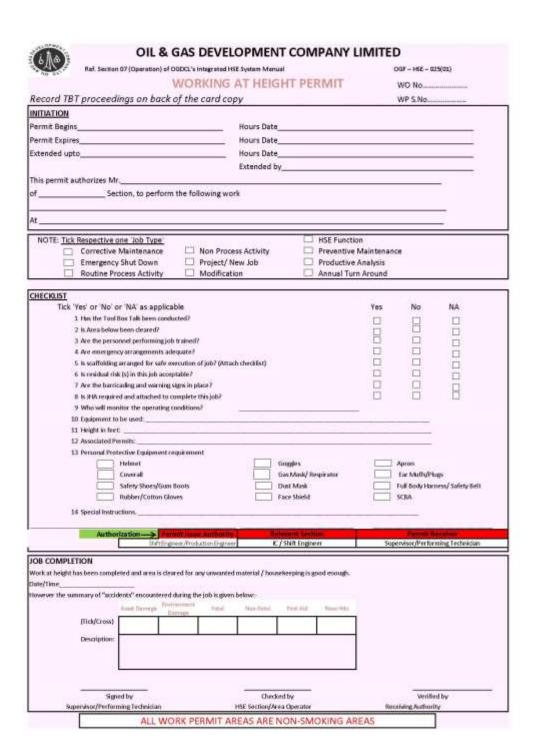
Controlled Copy Do Not Duplicate For Internal Use Only

OIL & GAS DEVELOPMENT COMPANY LIMITED Ref. Section 07 (Operation) of OGDCL's Integrated HSE System Many OGF - HSE - 024(01) **Excavation & Civil Work Permit** WO No... Record TBT proceedings on back of the card copy WP 5.No..... INITIATION Hours Date Permit Begins Permit Expires Hours Date Extended upto Hours Date Extended by This permit authorizes Mr. of _____section, to perform the following work NOTE: Tick Respective one 'Job Type' HSE Function Non Process Activity Project/ New Job Modification Corrective Maintenance Preventive Maintenance Emergency Shut Down Productive Analysis Routine Process Activity Annual Turn Around PERODIC INSPECTION (To be carried out before and during the work) TIME HESCLE TIME RESCLE TIME HESCLE SAFETY CHECKLIST Tick 'Yes' or 'No' or 'NA' as applicable 1 this the Tool Box Talk been conducted? 2 is there any electrical or cable under ground? 3 is the underground cable de-energized? 4 Are electric switches / breakers locked & tagged? 5. Are there any underground interment lines? 6. Are underground pipeline(s) under pressure. 7 Are the instrument cable, de-energized and disconnected? 8 Are there any gas pipelines, water lines or any other line underground? 9. Are pipelines underground emptied / isolated and blinded? 10 Is power driven equipment permitted for chipping & grinding etc? 31 Is showering required? 12 is scaffolding arranged for safe execution of job? (Attach checklist) 13 Are the barricading and warring signs in place? 14 is AIA sequired and attached to complete this job? 15. Who will monitor the operating conditions? 16 Fire Fighting arrangements: 17 Personal Protective Equipment requirement Ear Muffs/Plugs Coverall Cas Mask/ Respirator Dust Mask Full Body Harness/ Belt Safety Shoes/Gum 8 Heat/Cotton Gloves From Shield SCBA. 18 Special instructions. Authorization -> JOB COMPLETION vanted material / housekeeping is good enough vever the summary of "incidents" encountered during the job is given bel-En Asset Damage fatal Non-Fatal Fint Aid Damage (Tick/Cross) Area Operator

ALL WORK PERMIT AREAS ARE NON-SMOKING AREAS



Controlled Copy Do Not Duplicate For Internal Use Only





section 1 - Toolbox Talk Co	nsiderations (tick)				
C-m // 12	Ti	he following must be cons	idered prior to commencing the w	pric.	507
bjectives of the work		Equipment / to	ools	Additional PPE	31
pecific plans, methods and gui-	felines	Hazardous eq	uipment	Previous lessons learn	id
esponsibilities		Materials		Feedback / questions for	om Work Party
lanpower and skill	SPECIFICAL SECTION	Communication	ons paths / protocols	Applicable OGDCL Life	saving Golden Rule(s)
ccess and evacuation (what to	do in case of emergency)	Menual handl	ing		
ork environment / site conditio	ng :	Work prepara	dian		
sk assessment hazards, preci	sulions and miligations	Isolations / Pe	emits / Certificates	5 7	
eve the conditions changed		Performing th	e work	8 8	
as the activity changed		Reinstatemen	t .	8 6	
orflicting activities		Weather			
ection 2 - Work Party Atter y signing this form, I confirm th		rstood the information con	stained in and referenced during th	e Toolbox Talk.	
Name:	Signature:	Name:	Signature:	Name:	Signature:





Ref. Section 07	(Operation) of OGDCL's Integrated HSE System Manual OGF- HSE - 026(01)
6/6	Oil & Gas Development Company Location:
No of	
	Vehicle Entry Permit
Date:	No:
Validity	
Time In	Time out
Driver's Na	me
Vehicle Nu	mber OGDCL / Private
Type of Ve	hicle:
Vehicle Ins	
Battery	Connection (Covered & Tight) Entry Allowed?
Remarks_	
	Authorized Signature
	Important Instructions:
All Vehice	cle Permits to be closed out after the job is completed.
Permit co	opy should always be with the vehicle's driver while inside the plant/well site.
Only die	sel powered engine is allowed in the plant (gasoline powered is not allowed).
 Vehicles 	must follow the designated routes only.
 Speed I 	mit should be strictly followed.
 Fire Ext 	inguisher & First Aid Kit must remain available within the vehicle.





Page 1 of 1

OIL AND GAS DEVELOPMENT COMPANY LTD. ENERGY ISOLATION LOG SHEET

_			_	 _	_	-	_	_	_	_	_	-	_	_	_	_	-	_	_	-	_	-	_	_	_
	Remarks																								
	Isolation Sip/ Safety System Defeat Certificate/ Other Ref.																								
	Work Permit Ref.			843																			7		
20	of detachment/ detachment/ defeat removal (with person name)																								
Energy Isolation Details	Date and Time of attachment/ defeat (with person name)																								
	(Quantity + Number + Location)																								
	Location																								
	Isolation Device/ Method																								
	Equipment/ Safety System Name																								
	*	T			Ť	İ										Ĭ									





of OGDCL's Integrated HSE System Manual		OGF - HSE - 028(01)		
& GAS DEVELOPMENT	COMPANY LIMITE	D		
POWER ISOLATI	ON SLIP			
	Time of issue	hrs		
Electrical Section to turn ON/OFF	the electrical supply			
Location	at	hrs		
InChar	ge Shift			
e electrical supply of (unit)		as been turned		
hrs date	and respective of	circuit breaker(s)		
InCharge	e Shift			
	POWER ISOLATI Electrical Section to turn ON/OFF Location InChar te electrical supply of (unit) hrs date	POWER ISOLATION SLIP Time of issue Electrical Section to turn ON/OFF the electrical supply tocation at InCharge Shift electrical supply of (unit) he and respective of		



	Ref. Section 07 (Operati		ated HSE System Manual CERTIFICATE		OGF - HSE - 029(
No attended				Certificate No.	
ection 1 - Description of Defea	t				_
ucation / installation			Ori	ginal Associated Work Permit No.	
ystem/ Equipment to be			Wa	rk Continuing on Permit No.:	
ng Ne			Loc	p Drawing / use & Effects Attached	YES/NO
ection 2 - Defeat Implementation entractor/Dept.:	on Request (by Requester/P	Deco /Time:		Request (by Requester/Perfor ficiently completed to allow for Signature:	
ection 3b - Details of Safeguar livising Authors for the approximate Where applicable, solution points to be ection 4 - Implementation of D	ds (Precautions and Mittigat d remark) of Defeats/Whods/Ovend tagged.	dons) while System/E	quipment is Defeated on Operator or an instrument Technicum [Section 6 - Removal of Defe		Section 3
ection 3a - Details of Defeat [®] & ection 3b - Details of Safeguar motating Authority for the approximation and where application, sociation points to be ection 4 - Implementation of Display approved the defeat a proving Authority/Incharge of Processing Authority Incharge of Processing Authority Incharge of Processing Authority Incharge of Processing	ds (Precautions and Mitigat d remark) of Defeats/Mikets/Overed tegged. effect s described in Section 3	dons) while System/E	quipment is Defeated on Operator or an instrument Technicum [Section 6 - Removal of Defe	at I of the defeat as described in S Segnature	Section 3
ection 3b - Details of Safeguar library Authors for the approach on Where applicable, solution points to be ection 4 - Implementation of D. a. I hereby approve the defeat a	dis (Precautions and Mitigat dinneral of Defrats/Inhots/Overd togged. efeat is described in Section 3 essProducto Signature.	dons) while System/Edons while System/Edons while System/Edons Williams while System S	guipment is Defeated on Operator or an instrument Technology Section 6 - Removal of Defe de, I hereby authorise remova	of the defeat as described in S	
ection 3b - Details of Safeguar locating Authority for the approaches as Marer applicable, location points to be ection 4 - Implementation of D I. Thereby approve the defaut a proving Authority/Incharge of Proces	dis (Precautions and Mitigat dinneral of Defrats/Inhots/Overd togged. efeat is described in Section 3 essProducto Signature.	dons) while System/Edons while System/Edons while System/Edons Williams while System S	guipment is Defeated on Operator or an instrument Technology Section 6 - Removal of Defe de, I hereby authorise remova	of the defeat as described in S	
ection 3b - Details of Safeguar libitary Authors for the approache as Where applicable, solating points to be ection 4 - Implementation of Dis. I hereby approve the defeat a proving Authorstrincharge of Processes authors to the defeat as display authors the defeat as display authors the defeat as display authors the defeat as display authors.	ds (Precautions and Mitigat d remark) of Defeats/Miciella Overed segond. effect is described in Section 3 escribed in Section 3 Signature.	Code / Time:	guipment is Defeated on Operator or an instrument Technology Section 6 - Removal of Defe de, I hereby authorise remova	of the defeat as described in S Signitive	
ection 3b - Details of Safeguar licitating Authority for the approximate an Where applicable, actation points to be ection 4 - Implementation of D a. I hereby approve" the defeat a approving Authority incharge of Proces bearing Authority Name b. I hereby certify that the defeat	ds (Precautions and Mitigat d remark) of Defeats/Miciella Overed segond. effect is described in Section 3 escribed in Section 3 Signature.	Code / Time:	guipment is Defeated on Quartor or an instanced Technology Section 6 - Removal of Defe 6a. I hereby authorise removal timing Authority Name	of the defeat as described in S Signitive	
ection 3b - Details of Safeguar licitating Authority for the approaches as Where applicable, solution points to be ection 4 - Implementation of D a. I hereby approve the defeat a proving Authority/Incharge of Proce	dis (Precautions and Mitigat d removal of Defeats/Inhosts/Overed tagged, efeat is described in Section 3 assProducto Signature. escribed in Section 3 Signature. has been applied as describe	Date / Time:	con Operator or an instrument Technician Section 6 - Removal of Defe 6a. I hereby authorise removal testing Authority Name 6b. I hereby certify that the de	of the defeat as described in S Signiture	Date / Time:



Controlled Copy Do Not Duplicate For Internal Use Only

7.3 Handling, Segregation and Disposal of Waste

OGM/P-HSE-7.3(08) Revision Number 8

Original Issue: June 25, 2007 This Issue: March 14, 2022

Updated By:

Muhammad Sameem Hussain Qaiser
Senior HSEQ Officer, OGDCL

Reviewed By:

Muhammad Mubashir Abbas

Manager HSEQ, OGDCL

Checked By:
Mahmood-ul-Hassan Khan
General Manager HSEQ, OGDCL

Approved By: Syed Khalid Siraj Subhani Managing Director, OGDCL

Change/ Revision Log

#	Description of Change
	Reviewed, no change suggested.

Associated Documents Approval & Issue

Related Document/ Record	Initiated by	Reviewed by	Checked/ Verified / Approved by
OGF – HSE – 030 Onsite Waste Management Plan	Location HSE IC	Location HSE MRC	Location IC
OGF – HSE – 031 Section Waste Register	Concerned Section Rep.	Concerned Section IC	Concerned Section IC
OGF – HSE – 032 Waste Consignment Note	Concerned Section IC	Material Store IC	Concerned Section IC Material Store IC
OGF – HSE – 033 Waste Disposal Log	Material Store Rep.	Material Store IC	Material Store IC





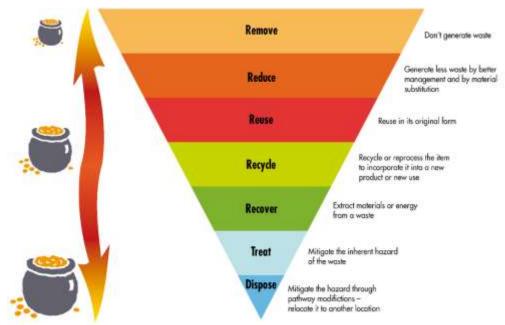
7.3.1 Waste Management Planning

- Waste is classified as Hazardous and Nonhazardous by identifying the physical, chemical and toxicological properties. This information may be found via Material Safety Data Sheets (MSDS), manufacturer's information, process knowledge, historic information or lab analysis. A system to categorize wastes streams according to their health and environmental vulnerabilities is then be developed.
- Location HSE Section shall develop an On-Site Waste Management Plan based on this procedure.
- To properly address each segregated wastes, the most suitable Disposal Method; Frequency of Disposal; and Disposal Responsibility shall be determined by documenting where the acceptability of each disposal option for the different ecological domains shall be determined by virtue of evaluation which shall include: environmental considerations; location; engineering limitations; regulatory restrictions; operating feasibility; economics; potential long-term liability; etc.
- Designated drums, containers, bins, etc. with specific labels shall be placed as Collection Method for the Waste Generating Areas. Color coding of drums, containers, bins, etc. for various types of wastes is to be as follows:

<u>Waste Type</u>	<u>Bin Color</u>
Hazardous Waste	Red Color
Food/Paper/Wood Waste (Organic Waste)	Green Color
Plastic Waste	Yellow Color

7.3.2 Waste Management Methods

OGDCL understands the capabilities and limitations of different Waste Management Options for the various types of wastes generated in order to make cost-effective Waste Management Decisions that are protective of human health and the environment. As a general matter, OGDCL has a Waste Management Hierarchy (as recommended by EPA), with a preference for reuse and recycling options.



Source Reduction Methods: Source reduction means eliminating or decreasing, to the extent practical, the volume or relative toxicity of wastes generated by using alternate materials, processes or procedures. Since the opportunities to achieve significant wastes volume reductions for some wastes are limited as their volumes are primarily a function of activity level and age or state of reservoir depletion. For example, the proportion of discharged produced water typically increases as the reservoir is depleted. Also, the volume of drilling mud generated is generally a function of the number of wells







drilled and their depth. Nevertheless, OGDCL makes use of opportunities for source reduction and efforts are made to exploit them. For example, use of proper solids control equipment reduces the volume of mud discharged.

- OGDCL also believes in process modification which is possible through more effective use of mechanical components, such as more effective drill bits, rather than chemical additions. Gravel packs and screens significantly reduce the volume of formation solids/ sludge produced. Improved controls aid OGDCL to minimize mud changes, engine oil changes and solvent usage.
- Substitution of products that result in the generation of less toxic wastes is preferred. For example, biocides, corrosion inhibitors, coagulants, cleaners, solvents, dispersants, emulsion breakers, scale inhibitors, viscosifiers and weighting agents are selected with potential environmental impacts and disposal needs in mind. Some examples are the selection of mud and additives that do not contain significant levels of biologically available heavy metals or toxic compounds, and the use of mineral oils in place of diesel oil for stuck drill pipe.
- Other efforts include efficient planning so that all commercial chemical products are used on the site or returned unused to the vendors; consideration of bulk chemical purchases to eliminate drums; and use of drains and sumps to collect and segregate spills.
- Typical examples of cost-effective waste management options are tabulated below:

WASTE	WASTE CLASSIFICATION	REUSE	RECYCLE	DEEP WELL/ LINED PIT	SURFACE TREATMENT/ LANDFILL	INCINERATION	RETURN TO VENDOR	OTHER (MENTION)	REMARKS
Adsorbent & Desiccants (Like MG-3, MG-5, Activated Carbon, Ceramic Balls, Silica gel etc.)	Hazardous					Yes			
Batteries (Dry and wet batteries; one time use or rechargeable)	Hazardous		Yes						Battery acid to be neutralized before offsite departure To be returned to vendor
Batteries Cell	Hazardous					Yes			
Catalysts	Hazardous					Yes			
Chemical Waste (expired chemicals, laboratory chemicals, cleaning chemicals etc.)	Hazardous					Yes			To be returned to vendor where possible







Clinical Waste	Hazardous				Yes			Legal requirements to be complied with
Construction & Demolish waste	Non- Hazardous			Yes				
Contaminated Debris & Soil	Hazardous				Yes			
Dip Slides	Hazardous				Yes			
Drilling Pit Waste	Hazardous	Yes	Yes	Yes				In Case OBM bioremediation shall be considered.
Empty Chemical Drums (Plastic + Metal)	Hazardous	Yes						Drums to be punctured before handing over to waste contractor.
Electronic Waste	Hazardous					Yes		Buyback option for the users.
Filter Backwash Liquids	Hazardous		Yes					
Filters (lube oil, air, fuel & raw gas, chemical treatment and water filter etc.)	Hazardous				Yes			
Food Waste	Non- Hazardous			Yes				
Garbage - Domestic Waste	Non- Hazardous			Yes				
Gas Cylinders	Non- Hazardous						Yes	Cylinders to be punctured before handing over to scrap recycler
Glass waste- Window panes, Bottles, Jars	Non- Hazardous	Yes						To be incinerated in case of contamination with hazardous substance





Glass waste- Tube Rods,	Hazardous	Yes						
Lamps , Bulbs and Energy								
Savers								
Hydrotest Fluids	Hazardous			Yes				
Insulation	Hazardous				Yes			
Paint	Hazardous				Yes			
Associated Waste								
Paper and Cardboard	Non- Hazardous	Yes						
Waste	I I am amal a co	V						To be a server of second
Pressurized Containers	Hazardous	Yes						To be punctured before disposal
Printer Cartridges	Hazardous					Yes		Return to Vendor
Produced Sand	Non- Hazardous			Yes				
Produced Water	Hazardous		Yes					
Radioactive Waste	Hazardous						Yes	To be disposed through Pakistan Atomic Energy Commission according to legal requirements
Rags - Oily	Hazardous				Yes			
Rainwater Drainage	Non- Hazardous			Yes				
Refractory Materials	Hazardous				Yes			
Rubber & Plastic Waste	Non- Hazardous	Yes						
Scrap Metal	Non- Hazardous	Yes						Contaminated metal to be decontaminated before disposal
Sludge - Tank & Vessel Bottoms	Hazardous				Yes			·
Sludge - Water Treatment	Hazardous			Yes				
Tetra packs	Non- Hazardous	Yes						
Waste Oil - Diesel and condensate	Hazardous	Yes						
Waste Oil - Lubricating oils	Hazardous	Yes						
Well Workover Fluids	Hazardous		Yes					





Controlled Copy Do Not Duplicate For Internal Use Only

7.3.3 Modus Operandi

#	Activities	Responsible Person	Related Document
1	Proper placement of generated wastes in a designated place / (wastes drum / bin).	Actual Waste Generating Section	Recording of wastes into the Section's Waste Register
2	Inform to Camp Maintenance Section / Housekeeping Supervisor in case of Common Scrap Item Inform to Material Management Section in case of Valued / Hazardous Salvage Waste.	Actual Waste Generating Section	Recording of wastes into the Section's Waste Register
3	Segregation and shifting of Valued / Hazardous Salvage Waste into the Designated Salvage Waste Yard.	Actual Waste Generating Section	Waste Consignment Note
4	Weighing of wastes / note down its quantity and other necessary information.	Housekeeping Supervisor (for Common Scrap Waste) Material	Common Scrap Waste Disposal Log (by Housekeeping Supervisor) Waste Consignment
		Management Section (for Valued / Hazardous Salvage Waste)	Note
5	Placement of Valued / Hazardous Waste into the designated section of Salvage Waste Yard.	Material Management Section	Approved Waste Segregation / Placement Plan (developed by Material Management Section)
6	Disposal of Common Scrap Waste as per the Onsite Waste Management Plan.	Local Waste Picker through Field Level Committee	Common Scrap Waste Disposal Log (by Housekeeping Supervisor)
7	Disposal of Valued / Hazardous Salvage Waste as per the Onsite Waste Management Plan.	Auction → Material Management Approved 3 rd party contractor → HSE	Salvage Waste Disposal Log (by Material Management Section / HSE)
8	Checking compliance.	HSE Audit Team	HSE Inspection Report / Audit Report/ Disposal Certificates

7.3.4 Safe Disposal of Waste

- Transfer waste from Designated Scrap Yard to Contractor's Waste Yard should be using preferably Contractor's own vehicle (or approved subcontracted vehicles), licensed for this purpose. Modes of transport and routes from the waste generation site to the Contractor Waste Yard should be selected to reduce risks of release.
- All waste consignments leaving the Contractor Waste Yard to licensed and approved Waste Treatment & Disposal Facility shall be tracked using Waste Treatment Certificates. The treatment certificates should contain the following information:
 - Waste type(s) and sources
 - o Consignment reference number
 - o Form (e.g. solid, liquid, sludge)
 - Treatment / disposal method







- Quantities and units collected
- o Date and time of collection and disposal
- o Flue gas / ash analysis where applicable
- The Waste Management Contractors shall provide treatment and disposal certificates to respective sites.
- Waste disposal record (evidence like Lab. Reports and Waste Treatment Certificates) shall be maintained by Location Material Management (original) and HSE Department / Section (copy).







OIL AND GAS DEVELOPMENT COMPANY LTD. On-Site Waste Management Plan

OGF/XXX - H5E - 050(01)

Part-II: Non-Hazardous Wastes

					Disposal Method								
Nature of Waste	Segregation	Collection Mathod for the Wastes Generating Section	Responsibility to Collect and Drop in the Designated Scrap Yard	Designat ed Scrap Yard	Reuse	Recycle	Deep well / lined pit	Surface treatment, /	Incineration	Return to vendor	Other	Frequency of Disposal	Disposal Responsibility
										157			
								1					
	Prepared by Location HSE InCha			Rancio	ewed by							Approve	i by

Ref. Section 07 (Operation) of OGDCL's Integrated HSE System Manual



OIL AND GAS DEVELOPMENT COMPANY LTD. On-Site Waste Management Plan

Part-I: Hazardous Wastes

							Dispo	osal Mer	thod				
Nature of Waste	Segregation	Collection Method for the Wastes Generating Section	Responsibility to Collect and Drop in the Designated Scrap Yand	Designat ed Scrap Yard	Reuse	Racycle	Deep well / lined pit	Surface treatment /	Incineration	Return to vendor	Other	Frequency of Disposal	Disposal Responsibility
										18			
			-7										
0	Prepared by Location HSE InChar	me		Revie	ewed by	RC .		45				Approved Location In	d by Chartee









OGE/00X - MMD - 033(01)

Waste Disposal Log

Secuo	1112			Locauc	ALL:		
#	Waste Type	Category (Hazardous/ Non-Hazardous)	"Quantity" Handed Over For Disposal	Handed Over To Which "Contractor"	Handing Over "Date"	Disposal Technique (to be opted)	Signature of Store Rep.
+							
\perp							
+		2.1					
\perp							
+		1					
-							
1							

Ref. Section 09 (Operation) of OGDCL's Integrated HSE System Manual



Oil & Gas Development Company Limited

QGF/00X - PBF - 031(01)

Section Waste Register

Sect	ion:		Location:									
Date	Waste Type	Category (Hazardous/ Non-Hazardous)	Quantity Collected	Temporary Storage Location	Instructions, if any	Initials	Handed over to Materials Store on (date)					
						-						
						-						
						-						
5		3 3		I. I								
						-						
-	-											
		9		4		i.						
	-					-						
3												









OGF/XXX - MMD - 032(01)

Oil & Gas Development Company Limited **Waste Consignment Note**

Waste Nomenclature: Quantity of Waste: Nature of Waste: (hazardous/ non-hazardous) Physical Form (gas, liquid, solid, powder, sludge or nomenclature of MSDS Handed Over with the waste — Y/N? Bin/ Container Type, Number and Size? (if available) How going to be transported? Any other details to be mentioned: I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected the consignment and that the above mentioned details are complete and is that the carrier of the approprial precautionary in All of the waste and labeled consistency.	I have received the above mentioned waste in safe condition, except the above mentioned waste in safe condition, except the above measures.
Nature of Waste: (hazardous/ non-hazardous) Physical Form (gas, liquid, solid, powder, sludge or n MSDS Handed Over with the waste – Y/N? Bin/ Container Type, Number and Size? (if available) How going to be transported? Any other details to be mentioned: I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that the mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled corr	I have received the above mentioned waste in safe condition, except the above mentioned waste in safe condition, except the above measures.
Physical Form (gas, liquid, solid, powder, sludge or not MSDS Handed Over with the waste — Y/N? Bin/ Container Type, Number and Size? (if available) How going to be transported? Any other details to be mentioned: I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled correct and labeled cor	I have received the above mentioned waste in safe condition, except the above mentioned waste in safe condition, except the above measures.
MSDS Handed Over with the waste – Y/N? Bin/ Container Type, Number and Size? (if available) How going to be transported? Any other details to be mentioned: I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled correct.	I have received the above mentioned waste in safe condition, except the above mentioned waste in safe condition, except the above measures.
Bin/ Container Type, Number and Size? (if available) How going to be transported? Any other details to be mentioned: I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled correct.	I have received the above mentioned waste in safe condition, except was advised ate neasures.
Any other details to be mentioned: I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled correct.	I have received the above mentioned waste in safe condition, except was advised ate neasures.
I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled correct.	above mentioned waste in safe condition, except was advised ate neasures.
I certify that I today collected the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. I certify that I today collected mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled correct.	above mentioned waste in safe condition, except was advised ate neasures.
the consignment and that the above mentioned details are correct and I have been advised of any specific handling requirements. mentioned infor complete and is that the carrier of the appropria precautionary in All of the waste and labeled correct.	above mentioned waste in safe condition, except was advised ate neasures.
the carrier has l advised of any s handling require	rectly and been special
Carrier's Certificate (Waste ger (Transporter) Section	Certificate Consignee's Certificate





Controlled Copy Do Not Duplicate For Internal Use Only

7.4 Journey Management

OGM/P-HSE-7.4(01) Revision Number 1

Original Issue: March 02, 2018 This Issue: March 14, 2022

Updated By:

Muhammad Sameem Hussain Qaiser
Senior HSEQ Officer, OGDCL

Reviewed By:

Muhammad Mubashir Abbas

Manager HSEQ, OGDCL

Checked By:
Mahmood-ul-Hassan Khan
General Manager HSEQ, OGDCL

Approved By: Syed Khalid Siraj Subhani Managing Director, OGDCL

Change/ Revision Log

#	Description of Change	
1.	Added: Installation of dashcams	Added: Installation of dashcams

Associated Documents Approval & Issue

Related Document/ Record	Initiated by	Reviewed by	Checked/ Verified / Approved by
OGF/TPT-001	InCharge Transport	Security Rep.	IC Admin./
Journey Management Plan	(TPT)	HSE Rep.	Location IC
OGC/TPT-001	Daily: Driver	Daily: TPT Rep.	Daily: TPT Rep.
Vehicle Inspection Checklist	Yearly: Maint. Rep.	Yearly: InCharge TPT	Yearly: InCharge Maint.







Controlled Copy Do Not Duplicate For Internal Use Only

7.4.1 Purpose

The purpose of this procedure is to ensure that safe travelling conditions are provided to OGDCL employees, contractors and visitors by mitigating the hazards and associated risks regarding the work related road travel.

7.4.2 Scope

- A routine or non-routine journey for the purpose of this procedure is a work related road travel that is covered by the list below:
 - Movement between an oil & gas installation* to other oil & gas installation.
 - ♠ Movement between an office building** to other office building.
 - Movement between an oil & gas installation to an office building.
 - Inter or Intra field/ block/ lease/ concession movement.
 - ♠ Movement for any business matter out of oil & gas installation/ field/ block/ lease/ concession/ city (e.g. meeting, fact-finding/ inquiry, audit/ inspection, conference/ workshop/ training, etc.).
 - Movement for general matters (e.g. surveillance, operational or mess purchasing, pick & drop (on-duty/ days-off/ shift-duty), etc.)
 - Movement in remote locations that lacks proper infrastructure and emergency support (e.g. seismic parties, drilling rigs, EFPs, FGCPs, etc.).
 - Movement during any emergency/ operational breakdown at wellsite, pipeline, metering station, or other connected unit/ sub-unit.
 - Movement for any support services to district management, local community, etc.
 - Movement of foreign technical teams, consultants & delegations.
 - Movement in the security sensitive areas (as notified from time to time by Security Deptt.)

7.4.3 Responsibility

- Implementation of this procedure at an oil & gas installation → Respective Location InCharge through nominated InCharge Transport (TPT)
- Implementation of this procedure at an office building → Respective InCharge Admin. through designated InCharge Transport (TPT)

7.4.4 Journey Planning

- A journey shall require prior approval of respective HOD/ Location InCharge.
- HOD/ Location InCharge shall consider all viable options e.g., tele or video conferencing before endorsing a Travel Requisition to avoid unnecessary journeys.
- In Charge Transport (TPT) shall ensure that journeys are planned and carried out in ways that minimize exposure to hazards and associated risks using Journey Management Plan.
- For all routine journeys, Journey Management Plan shall be readily available in vehicles with predetermined risks especially considering below hazardous situations:
 - where paved roads are not available/off road driving conditions.
 - routes with security threats, dangerous intersections, sharp turns, landslide areas, slippery conditions, and/ or blind-spots.
 - areas with potentially limited cellular phone coverage.
 - indistinct stopovers.
 - environmentally protected areas, wildlife sanctuaries, etc.
 - transportation of heavy/ fragile/ hazardous material or equipment.
 - night travel or any other high rated risk aspect.
- However for the non-routine journeys, *Journey Management Plan* shall be chalked out on situational basis, accordingly.



^{*}Oil & gas installation = OGDCL Field/ Rig/ Party/ Stores/ Logistics Base/ G&R Lab.

^{**}Office building = OGDCL Head office, Regional offices, Medical centers, Training center.



Controlled Copy Do Not Duplicate For Internal Use Only

- Following operational controls shall be ensured according to the identified hazards and underlying risks:
 - safety & security briefing.
 - security escort*** (frontier corps/ rangers/ guards).
 - **communication** system (cellular phone; radio set, etc.).
 - route (gps) maps (especially for non-routine journeys).
 - first aid kit.
 - fire extinguisher.
 - flashlight/ torch.
 - warning triangle.
 - vehicular checks (as per Checklist attached).
 - special requirements (e.g. under-run protection; rollover protection devices).
 - others (like reversing alarm system for heavy vehicles).
- While assigning duties, InCharge Transport (TPT) shall ensure following about driver(s):
 - physical & mental fitness.
 - good energy levels/ food intake.
 - not overloaded/ fatigued with any recent hours of work.
 - slept sufficiently before the trip & owing natural alertness cycle.
- InCharge Transport (TPT) shall plan a journey considering human risk factor by opting daytime driving and avoiding bad weather.
- No journey shall be allowed from sunset to sunrise (If inevitable, driving at these sensitive times shall be made conditional with respective HOD's permission).
- HOD (Security) and Security Rep./ Regional Security Officer (RSO) must be intimated regarding night time travels so that exclusive security measures like security escort be arranged and the concerned Law Enforcement Agencies (LEAs) be informed accordingly.
- In case of low visibility particularly during foggy, rainy or stormy conditions, journey shall not be allowed (If inevitable, driving under these circumstances shall be made conditional with respective HOD's permission).
- For the security sensitive journeys, intermediate radio contact feedback stations shall be configured by Security Deptt. to monitor the ongoing safety of the convoy and a Journey Coordinator be appointed.
- However, Location InCharge/InCharge Admin./ InCharge Transport (TPT) shall ensure that vehicle(s) have base communication systems configured so that the vehicle(s)/ convoy remain in communication with the destination point uninterruptedly.
 - *** Security Escort
 - Frontier Corps (FC) Baluchistan shall provide escort for the journeys in Baluchistan Province.
 - Frontier Corps (FC) Khyber Pakhtunkhwa shall provide escort for the journeys in sensitive areas of Khyber Pakhtunkhwa Province.
 - In case of expatriates' movement, journeys shall be carried out in bullet proof vehicles with the escort of Frontier Corps (FC)/ Rangers and Police.

7.4.5 Journey Execution

- A formal pre-trip briefing shall be held with driver(s) which includes discussion of route, identified hazards/ risks and operational controls.
- Drivers shall always carry out a basic physical check of their vehicles before a journey using the following table:
 - P Petrol: Is there enough fuel for the planned journey?
 - Oil: oil level ok? And no obvious leaks?
 - Water: If water-cooled, is the radiator level correct? Is there enough water in the washer reservoir and do the wiper blades effectively clean the windscreen?
 - Electrics: Are all the lights working and does the battery start the engine with ease?
 - Rubber: Are all tyres in good condition with sufficient depth of tread and correctly inflated?

Note:- Vehicles must be inspected on the prescribed Checklist on daily basis for physical inspection and annual basis as vehicle fitness check and record of these inspections be retained for a minimum period of 01 year.

Drivers shall not move their vehicles until occupants are wearing seat belts.







Controlled Copy Do Not Duplicate For Internal Use Only

- Drivers shall not operate a vehicle while under influence of alcohol, drugs, or medication that could impair their ability to safely drive.
- Drivers shall not be allowed to drive more than the time permissible under the law.
- However more than 10-hour driving in a 24-hour day shall not be allowed in any case.
- A break of at least 15 minutes shall be required every 2 hours of driving preferably at authorized rest areas.
- In addition, driving must be stopped and a break taken when a driver is fatigued/ not feeling well and InCharge Transport (TPT) be informed.
- Drivers must comply with the applicable legal and regulatory requirements for driving and never exceed the posted speed limits or drive at an unsafe speed for the prevailing road conditions (Maximum speed limit within OGDCL's fenced-installations shall be 15 km/hr).
- While driving, drivers shall not use cellular phones or operate navigation system/ multimedia/ electronic devices and refrain from smoking. If communication is really required, the vehicle shall be pulled over at safe location.
- Unauthorized passengers (hitchhikers) shall not be carried in vehicles, except in case of emergency or requisition by local authorities.
- No passenger shall be ever carried in cargo loading area of the vehicle or allowed to hang with the door.
- In case of security personnel at rear side of the vehicle for security escort, proper fixed seats must be provided.
- In case of rash driving or violation of traffic rules, it shall be the responsibility of the senior-most travelling employee to advise driver to drive carefully.
- HOD/ Location InCharge/ InCharge Transport (TPT) must be intimated regarding the behavior of driver on first available opportunity.
- In case, an alternate route to be opted, driver shall inform InCharge Transport (TPT)/ Journey Coordinator.
- In case, deviation from the original routes (planned/ alternate) is to be opted, driver shall take permission from InCharge Transport (TPT)/ Location InCharge.
- Upon reaching the destiny, driver shall report completion of the trip to InCharge Transport (TPT)/ Journey Coordinator.
- If a driver does not reach/ check-in at the designated destination on the estimated time, InCharge Transport (TPT) shall contact the driver and passenger(s), and in case of no contact, shall inform Security Rep. to take up the matter according to the situation.

7.4.6 Incident/ Emergency Handling During A Journey

- There shall be a laminated sticker or low-gauge metal plate posted on the dashboard or at other noticeable place either at front or rear windshield of a vehicle mentioning the names and contact numbers to whom may be informed in case of an incident or emergency.
- If vehicle encounters an accident or emergency situation, following must be done:
 - Respective HOD/ Location InCharge/ InCharge Transport (TPT) be reported immediately.
 - Emergency services be contacted, if required.
 - Any injured person be provided assistance/ first aid (if possible) until arrival of an ambulance.
 - Emergency service provider may be assisted as required.
 - Vehicle be moved away from the roadway and secured, if possible.
 - Driver and passengers to remain at the incident scene until advised by the police (if relevant).





Controlled Copy Do Not Duplicate For Internal Use Only

Subsequently, the concerned regulatory authorities shall be intimated accordingly and formal incident investigation carried out as per prevailing procedure.

7.4.7 Drivers Qualification, Competence, Fitness and Monitoring

- Only approved drivers shall be eligible to drive company-owned or hired/ rented vehicles.
- Approved drivers shall be those who are appropriately licensed, trained, assessed and medically fit.
- Location InCharge/ InCharge Transport (TPT) shall be responsible for maintaining and communicating an updated list of approved drivers.
- The approved driver must have the following qualification at the minimum:
 - Medically fitness as per trade test (e.g. tests for diabetes, eyesight, colorblind, vertigo, etc.).
 - Valid driving license relevant to the class of vehicle.
 - Must be at least of 21 years of age.
 - Minimum 3 years driving experience (preferably of major cities/ facilities/ organizations).
 - Driven similar type of vehicles before.
- Drivers driving OGDCL-owned or hired vehicles shall undergo mandatory defensive driving course.
- For the newly hired drivers for OGDCL-owned vehicles, defensive driving course shall be organized by HSEQ Deptt. having following topics:
 - Review of applicable policies & standards.
 - Defensive driving techniques.
 - Journey planning/management (including alertness & fatigue management).
 - Effects of medication & substance abuse.
 - Pre-trip checks & requirements (including restraint/ safety systems).
 - Skill versus changing driving vulnerabilities (hazards & risks).
- Refresher defensive driving training sessions shall be arranged as per annual training plan and drivers who had encountered accident(s) or near hits shall be included specially.
- Frequency of refresher's defensive driving trainings shall be three years.
- Records of trainings shall be maintained by TPT and HSEQ Deptt..
- It shall be the contractual obligation of Contractors to impart defensive driving trainings to drivers of hired/rented vehicles whereas compliance of this condition shall be ensured by InCharge TPT/ Location InCharge.
- Based on risk assessment and/ or local regulations, Location InCharge/InCharge Admin. may consider installation of dashcams, an In-Vehicle-Monitoring-System (IVMS) or Vehicle Data Recorder (VDR) to acquire journey data (against a driver identification # or key) to be analyzed for driver's performance (like speed, acceleration/ deceleration, kilometers driven, driver overall hours, etc.).
- With the installation of IVMS, data management system shall be implemented to ensure data is properly analyzed and feedback is provided to drivers for bringing improvement and safety in their driving skills.







Oil & Gas Development Company Limited Location _

OGF/XXX-TPT-001(00)

TPT Section

JOURNEY MANAGEMENT PLAN

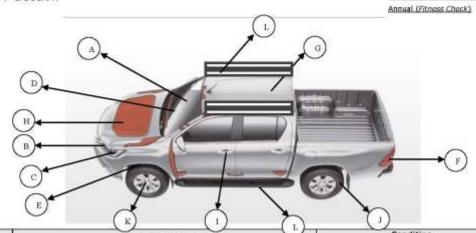
						JOURNEY TO						
RISK ASESSMENT						- i-						
PLANNED (PRIORITY) ROUTI		224			25			X:e	3.		
Route (From - To)	Route (From - To) Hazards/ Coute (From - To) Route (From - To)		Risk	Calc	ulatio		Operatio	nal				
Koute (From - 10)	Т Т	hreats			cted)	Pro bability	Conse	quen	e Risk	Contro	5	
			2.4			81						
	48		-8-						+ +			_
												_
			66			J. J.						_
ALTERNATE ROUTE	166	N2015-0000-000-00-000	6	Ris	sks	l Risk	Calc	ulatio	n 1		3011 (3 14)	_
Route (From - To)		azards/ hreats		(Dan	nage	Pro bability		quen	Risk	Operatio Control		
	-	35555FT VETSAGA	-	Expe	cted)		30030000		Rating	2000000	50/A7	_
												_
	20											_
	7		×.									_
			33									
STOPOVERS (REST	HOUSE	/ CAMP/	MOT	TFI	/ AU	THORIZED RES	TAR	FA)				
STOPOVER TITLE	1		2000000			N (ADDRESS)			SHORT	/ OVERNIG	HT 9	— 5T
A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						RIORITY) ROUTE			, interest	1		- 35
	\neg			0010000		· · · · · · · · · · · · · · · · · · ·						_
												_
												_
				AL	TERN	IATE ROUTE						
	INTEG	n opena	TIOS						10			_
DI ANIMITALO OLICOVI	121 LC				OOK	TROLO			100			Т
PLANNING CHECKL	VN	o l	110	7		TROLS	Tv	NA.	** **		TV	╁
an exception resonance to the armonic of the second	YN	A	110	Y	NA	TROLS	Y	NA	Socurity Fo	m#	Y	
Safety & Security	YN	First Aid		7		TROLS Drinking Water	Y	NA	Security Es		Y	ı
Safety & Security Briefing	YN	First Aid	l Kit	7		Drinking Water	Y	NA	(Guard/ FC/	Rangers)	Y	ļ
PLANNING CHECKL Safety & Security Briefing Cellular Phones (Two- way Communication)	YN		l Kit	7			Y	NA		Rangers) / Rollover	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication)	YN	First Aid Radio Se Fire	l Kit et	7		Drinking Water Protective Clothing		NA	(Guard/ FC/ Under-run) protection Shovel for:	Rangers) / Rollover device sandy/	Y	+
Safety & Security Briefing Cellular Phones (71000-	YN	First Aid Radio So Fire Extinguis	i Kit et her	7		Drinking Water Protective Clothing Route Map (GPS)		NA	(Guard/ FC/ Under-run) protection Shovel for desert terra	Rangers) / Rollover device sandy/	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing Ka	YN	First Aid Radio So Fire Extinguis Warning	i Kit et her	7		Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/		NA	(Guard/ FC/ Under-run) protection Shovel for:	Rangers) / Rollover device sandy/	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing KR		First Aid Radio So Fire Extinguis	i Kit et her	7		Drinking Water Protective Clothing Route Map (GPS)			(Guard/ FC/ Under-run) protection Shovel for desert terra	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing Ka Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe	IONS y Managem	First Aido So Radio So Fire Extinguis Warning Triangle	l Kit et her	Y	NA	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks	co		(Guard/ FC/ Under-run/ protection Shovel for desert terro Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing K& Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined situations;	IONS y Managem risks especi	First Aid Radio So Fire Extinguis Warning Triangle	l Kit et her	Y avaious	NA	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg	co		(Guard/ FC/ Under-run/ protection Shovel for desert terro Other	Rangers) / Rollover device sandy/ ain	У	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing Kat Flashlight/Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined in vehicles with predetermined vehicles with great and vehicles with years, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to a security threats.	TONS y Managemrisks especia	First Aid Radio So Fire Extinguis Warning Triangle ent Plan shall b ally considering road drivings shows shows shall b	I Kit et ber readil hazard	Y availy	NA	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks	co		(Guard/ FC/ Under-run/ protection Shovel for desert terro Other	Rangers) / Rollover device sandy/ ain	У	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing KR Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined situations; where paved roads are not av routes with security threats, of landslide areas, slippery cond landslide areas, slippery cond	IONS y Managem risk's especiailable/ off langerous in	First Aid Radio St Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving contersections, sh	I Kit et ber readil hazard	Y availy	NA	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg	co		(Guard/ FC/ Under-run/ protection Shovel for desert terro Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing K& Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined situations; / where paved roads are not av / routes with security threats, d landslide areas, slippery cond / areas with potentially limited / indistinct stopovers	IONS y Managem risk's especial aliable/ off langerous i	First Aid Radio St Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving content of blind-spots, ne coverage.	et ber readil hazard	Y availy	NA	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT.	co		(Guard/ FC/ Under-run/ protection Shovel for desert terro Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing K& Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined situations; / where paved roads are not av / routes with security threats, of landslide areas, slippery cond / areas with potentially limite d / indistinct stopovers / environmentally protected are / transportation of heavy fragil	TIONS y Managemerisk sespecialishe/off langerous intions, and/ocelluser pho-	First Aid Radio St Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving co netersections, sh or blind-spots, ne coverage, sanctuaries, et us material or e	et ereadil her nditions	y avadous	NA	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT. HSE Rep.	co		(Guard/ FC/ Under-run/ protection Shovel for desert terro Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing KR Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined in ventes with security threats, of landslide areas, slippery cond vareas with potentially limited in vindistinct stopovers venvironmentally protected are var apportation of heavy fragil vinight travel or any other high however for the non-routine jou	TIONS y Managem risk s especial langerous i ittions, and/ cellular pho rase wildlife e/e/ hazardo rated risk i urneys, Jou	First Aid Radio So Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving co theresections, shor b lind spots, or b lind spots, ne coverage, sanctuarial or e sapect. mey Manageme	# Kit ### ### ### ### ### ### ###	y avadous	NA NA	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT.	co		(Guard/ FC/ Under-run/ protection Shovel for desert terro Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing K& Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined in stuations; where paved roads are not av routes with security threats, of landslide areas, slippery cond vareas with potentially limited. Vindistinct stopovers environmentally protected are varsportation of heavy fragil vinight travel or any other high bowever for the non-routine jou chalked out on situational basis	TIONS y Managem risk sespecial langerous i langerous i cellular pho cellular pho rated risk i rurreys, Jou accordingl	First Aid Radio So Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving co theresections, sh or blind-spots, ne coverage, sanctuaries, et us material or e spect. mey Manageme ly.	e readil e e readil n dicions arp turi	y avadous shall	NA Na ilable	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT. HSE Rep. Security Rep.	cccee	NTAC	(Guard) FC/ Under-run, protection Shovel for desert terr. Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing K& Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined situations; / where paved roads are not av routes with security threats, of landslide areas, slippery cond / areas with potentially limited / indistinct stopovers / environmentally protected are / transportation of heavy fragi / night travel or any other high however for the non-routine jou chalked out on situational basis	TIONS y Managem risk sespecial langerous i langerous i cellular pho cellular pho rated risk i rurreys, Jou accordingl	First Aid Radio So Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving co theresections, sh or blind-spots, ne coverage, sanctuaries, et us material or e spect. mey Manageme ly.	e readil e e readil n dicions arp turi	y avadous shall	NA Na ilable	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT. HSE Rep. Security Rep.	cccee	NTAC	(Guard) FC/ Under-run, protection Shovel for desert terr. Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing Kat Flashlight/Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined in vehicles with predetermined vehicles with great and vehicles with years, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to add are not av volutes with security threats, developed to a security threats.	TIONS y Managem risk sespecial langerous i langerous i cellular pho cellular pho rated risk i rurreys, Jou accordingl	First Aid Radio St Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving co theresections, sh or blind-spots, ne coverage, sanctuaries, et us material or e spect. mey Manageme ly.	e readil e e readil n dicions arp turi	y avadous shall	NA Na ilable	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT. HSE Rep. Security Rep.	cccee	NTAC	(Guard) FC/ Under-run, protection Shovel for desert terr. Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing K& Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined in stuations; where paved roads are not av routes with security threats, of landslide areas, slippery cond vareas with potentially limited. Vindistinct stopovers environmentally protected are varsportation of heavy fragil vinight travel or any other high bowever for the non-routine jou chalked out on situational basis	TIONS y Managem risk sespecial langerous i langerous i cellular pho cellular pho rated risk i rurreys, Jou accordingl	First Aid Radio St Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving co theresections, sh or blind-spots, ne coverage, sanctuaries, et us material or e spect. mey Manageme ly.	e readil e e readil n dicions arp turi	y avadous shall	NA Na ilable	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT. HSE Rep. Security Rep.	cccee	NTAC	(Guard) FC/ Under-run, protection Shovel for desert terr. Other	Rangers) / Rollover device sandy/ ain	Y	
Safety & Security Briefing Cellular Phones (Two- way Communication) Emergency Toeing K& Flashlight/ Torch SPECIAL INSTRUCT For all routine journeys, Journe in vehicles with predetermined in stuations; where paved roads are not av routes with security threats, of landslide areas, slippery cond vareas with potentially limited. Vindistinct stopovers environmentally protected are varsportation of heavy fragil vinight travel or any other high bowever for the non-routine jou chalked out on situational basis	TIONS y Managem risk sespecial langerous i langerous i cellular pho cellular pho rated risk i rurreys, Jou accordingl	First Aid Radio St Fire Extinguis Warning Triangle ent Plan shall b ally considering road driving con thersections, sh or blind-spots, ne coverage, sanctuaries, et us material or e spect. mey Manageme (y, ty) as wellassi	e readil e e readil n dicions arp turi	y avadous	NA Na ilable	Drinking Water Protective Clothing Route Map (GPS) Vehicle Fitness/ Checks Location InCharg InCharge Admin. InCharge TPT. HSE Rep. Security Rep.	CCCee	NTAC	(Guard) FC/ Under-run, protection Shovel for desert terr. Other	Rangers) / Rollover device sandy/ ain		





VEHICLE INSPECTION CHECKLIST Monitoring Frequency:

Daily (Physical Inspection)/



538111			Condition			
Sr.	Checkpoint		Good	Fair	Defective	
1.	Steering	I A		g (CA)		
2.	Antilock Breaking System / Foot Paddle / Handbrake		- 5			
3.	Air Bags (esp. at driver's end)					
4.	Parking / Headlights	В				
5.	Hazards & Indicator Lights	C			-	
6.	Hom		- 7			
7.	Windscreen / Washers / Wipers	D		9		
8.	Shock Absorbers	E				
9.	Suspension		7			
10.	Speedometer / RPM Meter		(T)	7		
11.	Battery (Connectors Greased / Clamped / Properly Fixed / No Rust)		- 3	1		
12.	Visual General Wiring Codition					
13.	Spare Fuses (Available)					
14.	Brake / Rear Lights & Hi / Low Beams	F			3	
15.	Cabin Light		- 6	2		
16.	Electric Cables & Wiring		100	3		
17.	Starting Performance					
18.	Fluid Level					
19.	Exhaust Manifold & Silencer Condition (Leaks / Hole / Loose Fitting)					
20.	Visual Hoses / Belt & Pipe Condition					
21.	Visual Radiator Condition					
22.	Air Condition & Heating System	8 8		9	9	
23,	Gears Conditions	1 1	100			
24.	Selt Belts		5			
25.	Central Locking Sysetm		107	3		
26.	Body's Visual Condition	G				
27.	Engine's Apparent Condition	H	1 (1)	3		
28.	Doors / Lock / Handle Condition	11				
29.	Tyres / Spare Tyre Condition	3				
30,	Wheel Aligment	K				
31.	Under-run Protection; Rollover Protection Devices	L	- 6	2		
32.	Head Restraints	3 3	- 15	â		
33.	Reversing alarm system (for heavy vehicles)		12.0	8	10	

TPT Section

Inititated by	Reviewed by	Verified/ Approved by			
Daily: Driver Yearly: Maint, Rep.	Daily: TPT Rep. Yearly: InCharge TPT	Daily: TPT Rep. Yearly: InCharge Maint.			



Controlled Copy Do Not Duplicate For Internal Use Only

7.5 Framework for Hydrogen Sulfide (H₂S) Management

OGM/P-HSE-7.5(00) Revision Number 00

Original Issue: November 28, 2019 This Issue: --

Updated By:

Muhammad Sameem Hussain Qaiser
Senior HSEQ Officer, OGDCL

Reviewed By:

Muhammad Mubashir Abbas

Manager HSEQ, OGDCL

Checked By:
Mahmood-ul-Hassan Khan
General Manager HSEQ, OGDCL

Approved By:
Syed Khalid Siraj Subhani
Managing Director, OGDCL

Change/ Revision Log

#	Description of Change
	Reviewed, no change suggested.

Associated Documents Approval & Issue

Related Document/ Record/ Appendix	Initiated by	Reviewed by	Checked/ Verified / Approved by
H ₂ S Detection Equipment (Location &Quantities) for Drilling Rigs	Manager HSE	GM HSE	MD/ CEO





Controlled Copy Do Not Duplicate For Internal Use Only

7.5.1 Purpose

Hyrdogen Sulfide (H₂S) is one of the most toxic gas and at a concentration of 100 ppm is considered to be immediately dangerous to life and health (IDLH) by National Institute of Occupational Safety and Health (NIOSH). H₂S is so dangerous because the level (concentration) that can kill is much lower than that of many other toxic gases. Therefore, the purpose of this procedure is to provide a basic framework for hydrogen sulfide management for all OGDCL operation facilities.

7.5.2 Hydrogen Sulfide(H₂S) Emergency Management during Rig Operations

- H₂S potential risk assessment shall be conducted jointly by Exploration and Petroserv Directorates prior to commencement of drilling operations.
- Each proposed well shall be categorized either as sweet or sour depending upon expectancy of encountering H₂S during the drilling operation.
- Where the well is categorized as sour, following steps shall be taken by Petroserv Directorate:
 - Drilling Rig's Emergency Response Plan (ERP) shall be updated as per guidelines provided in this document.
 - H₂S detection equipment (sensors, alarms, monitors) shall be made available in quantities as per Appendix-A, before commencement of work.
 - Continuous supply of compressed air through Breathing Air Manifolds connected with Cascade Breathing Air Supply System shall be made available at rig floor, derrick, cellar, shale shaker, trip tank/ degasser, and choke manifold (to be made operational when H₂S is encountered).
 - 30/60-Minute Self Contained Breathing Apparatus (SCBA) units shall be made available at emergency response post, muster points, rig floor, dog house, mud cabin and data unit.
 - 10/15-Minute Emergency Escape Breathing Apparatus (EEBA) shall be made available at OM office, HSE cabin, rig floor, dog house, mud cabin, rig maintenance office/ workshops, power control cabin, engine driver cabin, admin room, and data unit.
- Subsequently, the Operations team shall take following steps during drilling:
 - Number of personnel on the drilling rig shall be restricted to a minimum when entering H₂S gas bearing zones, especially during testing or coring.
 - Drilling crew must carry personnel H_2S monitors while working at or around the rig.
 - Iwo suitable muster points shall be made available keeping in view the wind pattern to avoid exposure in the event of emergency involving release of H₂S.
 - Rig crew must practice "wind consciousness" to know where the wind indicators are; make the habit to check regularly and always be prepared to quickly move upwind or crosswind
 - All personnel shall receive safety induction prior to start of work and have knowledge of the location of the Muster Points.
 - The rig crew shall be made to participate in the H₂S rescue mockup drills and practice wearing and using breathing apparatus.
 - Periodic inspection shall be undertaken to assure that all safety / emergency equipment and gadgets are properly stored, maintained and fully operational. Drilling crew must make a habit to check the H₂S alarms as during daytime alarm lights can be difficult to see.
 - Safe operating conditions shall be maintained and alert shall be made for any changes in conditions especially when approaching suspected gas bearing zones or during well testing.
 - Each team working in the hazardous zone shall have the requisite number of Advanced First Aiders.
 - Mechanism of community evacuation in case of emergency must be incorporated into Drilling Rig's Emergency Response Plan (ERP).
- H₂SEmergency Conditions can be subdivided into three conditions:

Condition-I: Caution (When H ₂ S concentration is more than zero but less than 10ppm)	 Continuous Yellow Light flash over rig with no alarm Be alert for a condition change Keep emergency Breathing Apparatus (BA) like EEBA and SCBA nearby and ready in case H₂S levels increase beyond 10ppm
Condition-II: Potential Danger to Life and Health (When H ₂ S concentration is 10ppm to 15 ppm)	 Red Light flashover rig with no alarm All Rig site personnel shall be advised of the change in the condition level Use the buddy system (i.e. work in pairs) to prevent anyone from entering or being left in an area alone Condition-II will remain in effect until the H₂S concentration drops below 10ppm and the yellow flashing light deactivates or Condition III develops





Controlled Copy Do Not Duplicate For Internal Use Only

Condition-III: Extreme Danger

(When H₂S concentration is greater than 15 ppm)

- ∞ Red Light Flash over Rig with continuous alarm
- All non-essential personnel will mask-up and proceed to the upwind muster point
- A list of key personnel shall be compiled and included in Site Emergency Procedure who shall remain on site.
- All non-essential personnel or all personnel, as appropriate,
 shall be evacuated
- The "buddy" system (working in pairs) will be used to prevent anyone from entering or being left in an area alone, even wearing SCBA
- Do not remove masks until absolutely certain the air is safe to breath. Replenish air supply from cascade system as needed
- ∞ If a sudden gas release occurs without warning, you should:
 - Hold your breath but do not inhale to do so and don BA (EEBA and SCBA). If a BA set is not readily available hold your breath and move rapidly upwind or cross wind muster point. Don BA ASAP. Don't panic.
 - If H₂S gas comes to surface, it is to be burned at the flare if possible. Check for SO₂ inboard of the flare. Do not assume the area is safe after the gas is ignited. Additions of scavengers to the mud should be made as deemed prudent.
- When circulation with less than 10ppm H₂S can be achieved and the detector readings show less than 10 ppm (alarms not activated) the condition level will revert to condition I or II depending on the operation and drilling zone.
- After consulting H.O., Operation Manager shall be responsible for igniting the well in the event of severe well control problems. This decision should be made only as last resort in situations where it is clear that;
 - Human life and property are endangered.
 - There is no hope of controlling the gas release under the prevailing conditions at the well.
 - If the well is ignited, the burning H₂S will be converted to sulphur dioxide (SO₂), which is also highly toxic and heavier than air. Do not assume that area is safe after the well is ignited.
 - If the well must have to be ignited, the primary method will be with a flare gun.

Note:-

- Air Manifolds of Cascade Breathing Air Supply System shall be used for working in an H2S drilling environment.
- Emergency Escape Breathing Apparatus (EEBA) shall be used for "evacuation" only and neither for search and rescue operation, nor for working in an H2S environment.
- Self-Contained Breathing Apparatus (SCBA) shall be used for "rescue" and "search" operation only.

7.5.3 Hydrogen Sulfide (H₂S) Emergency Management during Plant Operations

7.5.3.1 H₂S Hazards

- An evaluation of gas processing facilities shall be carried out to determine if fixed H₂S detection and alarm systems are needed. This evaluation should consider the likelihood of H₂S gas accumulating in high concentrations in enclosed workplaces, where workers may be unknowingly exposed.
- Individual response to exposures may vary according to frequency of exposure, duration of exposure, intensity of exposure, age, fitness & health and personal susceptibilities. Therefore, all personnel must receive safety induction prior to start of work and have knowledge of the location of the Muster Points. The field personnel shall be made to participate in the H₂S rescue mockup drills and practice wearing and using breathing apparatus.
- Since concentration of H_2S in process stream when release into atmosphere is diluted in ratio of 100:1, based on this rule facilities are categorised as:

Classification Concentration in the Feed Gas
Sweet facility 0 to 49 ppm

Low Risk Sour facility

High Risk Sour facility

0 to 49 ppm
50 to 499 ppm
+500 ppm





Controlled Copy Do Not Duplicate For Internal Use Only									
3.2 Detection	2.2 Detection and Protective Measures:								
Low Risk Sou	r Facility: (50 to 499 ppm)								
H2S Detection:	 Hydrogen Sulfide Risk assessment of the facility shall be conducted to identify locations of Hydrogen Sulfide Fixed Gas Detectors. Fixed Gas Detector Reading shall be made available in plant control room and shall activate plant emergency alarm in case of H₂S detection > 10 ppm. 								
H2S Protection:	 If H₂S level has a tendency to fluctuate, strict access control to plant and wellhead facilities shall be incorporated into location management system and no person shall be allowed to enter or leave plant and wellhead area without personal H₂S detectors. Two suitable muster points shall be made available at all wellheads and plant facilities keeping in view the wind pattern to avoid exposure in the event of emergency involving release of H₂S. Wind Socks shall be installed and maintained at all prominent locations. All employees shall be imparted with H₂S training as part of induction including Competencies in H₂S, breathing apparatus, sour work practices. Company personnel, contractors shall be made aware of the hazard and the appropriate actions to escape or shelter from a credible H₂S release. Facilities shall have Emergency Response Procedures (ERPs) which specifically address the sour aspects of the operation and steps to 								

- specifically address the sour aspects of the operation and steps to be taken in case of loss of containment.
- ∞ Sour equipment shall be properly isolated and made safe prior to breaking of containment. When returning to service, proper assembly, tightening, purging and leak testing shall be carried out to ensure integrity.
- ∞ Sampling of sour fluids will be strictly controlled and managed, using engineered sample points, breathing apparatus and the buddy system.

High Risk Sour Facility: (+500 ppm)

H₂S **Detection:**

- ∞ All employees shall be required to carry personnel H₂S Monitors when entering plant or wellhead facilities.
- ∞ Fixed H₂S Detector must be installed at all high risk sour wellhead and plant locations. The number and location of fixed Gas detectors shall be ascertained after Risk Assessment by competent
- ∞ Fixed Gas Detector's real-time readings shall be made available in plant control room and shall activate plant emergency alarm in case of H_2S detection > 10 ppm.
- ∞ The Plant shall be configured to automatically blow down to flare in case H₂S is released due to leakage / loss of containment in excess of 50 ppm.
- ∞ Due to community risk, pipelines from wellheads must have some adequate mechanism of leak detections which should activate well shutdown and blow down of pipelines to flare in case a leak is detected.

H₂S **Protection:**

- Sufficient number of 5/10 minute Emergency Escape Breathing Apparatus (EEBA) sets shall be made available to all personnel who shall enter plant/ wellhead facilities so that in case, safe evacuation is made.
- Sufficient number of 30 minute Self Contained Breathing Apparatus (SCBA) sets shall be made available to all emergency personnel who have the potential for exposure to H₂S during rescue and search operations in the event of loss of containment or the failure of flare systems that may combust fluids containing H_2S .
- Strict access control to plant and wellhead facilities shall be incorporated into location management system and no person shall be allowed to enter or leave plant and wellhead area without personal H_2S detectors and 5/10 minute EEBA.







Controlled Copy Do Not Duplicate For Internal Use Only

- ™ Two suitable muster points shall be made available at all wellheads and plant facilities keeping in view the wind pattern to avoid exposure in the event of emergency involving release of H2S.
- ∞ Wind Socks shall be installed and maintained at all prominent locations.
- ∞ All employees shall be imparted with H₂S training as part of induction including competencies in H₂S breathing apparatus, sour work practices.
- ∞ Company personnel, contractors shall be made aware of the hazard and the appropriate actions to escape or shelter from a credible H₂S release.
- ∞ Facilities shall have Emergency Response Procedures (ERP's) which specifically address the sour aspects of the operation. Emergency drills shall be conducted regularly to keep personnel trained on the ERP's.
- ∞ Each team working in the hazardous zone must have the requisite number of Advanced First Aiders.
- Mechanism of community evacuation in case of emergency must be incorporated into Location's Emergency Response Plan.
- Sour equipment shall be properly isolated and made safe prior to breaking of containment. When returning to service, proper assembly, tightening, purging and leak testing be carried out to ensure integrity.
- Sampling of sour fluids will be strictly controlled and managed, using engineered sample points, breathing apparatus and the buddy system.
- ∞ Risk assessments shall be done for sour activities, and the job procedures, hazards and controls shall be identified to ensure the work is done safely.
- → High Risk H₂S Areas shall be specified and access to High Risk H₂S
 designated areas shall only be allowed provided the following
 have been adhered to:
 - Permit Issuing/ Area Authority has completed a gas test of the area and the recorded results indicate < 5 ppm of H₂S in air.
 - Valid Permit to Work has been issued, authorized by the Responsible Supervisor, validated by the Area Authority and specifying clearly the reasons for entry.
 - $lue{r}$ Persons entering the restricted area have the correct safety equipment for that area which shall include personal H₂S monitors and EEBA.
 - All persons entering the restricted area are fully conversant with the 'Buddy' system and aware of the escape routes and Muster Points
 - For long time working in an H2S environment in the plant facility, Supplied Air Breathing Apparatus (SABA) shall be used.
 - All persons entering the restricted area have completed and signed the Entry logbook i.e. Name, Department, Entry Pass Number and Time In.

Note:-

- Supplied Air Breathing Apparatus (SABA) shall be used for long time working in an H2S environment in the plant facility. Two compressors shall be made available for filling of the SABA cylinders.
- Emergency Escape Breathing Apparatus (EEBA) shall be used for "evacuation" only and neither for search and rescue operation, nor for working in an H2S environment.
 Self-Contained Breathing Apparatus (SCBA) shall be used for "rescue" and "search" operation only.

7.5.4 Treatment After H₂S Exposure

- \blacksquare Treatment of life threatening H_2S exposure, characterized by loss of consciousness and associated respiratory failure, shall be aimed at:
 - Maintaining respiration by first aid measures. Oxygen resuscitator must be used as soon as possible.
 - Ireatments of local irritant effects of H_2S gas on the eyes and mucous membranes of respiratory tract by supportive measures and medical treatment, by field medic.
 - Enhancing detoxification by administration of antidotes, by field medic.





Controlled Copy Do Not Duplicate For Internal Use Only

- Immediately remove victim from the hazardous area to fresh air while wearing SCBA and using the buddy system (i.e. 2 people, 1 rescuing, 1 in standby in safe area). Immediately call field medical officer, advanced first aiders. Check mouth of victim (false teeth, chewing gum, etc.) and clear if needed. If he is breathing, maintain at rest and administer O₂ if available. If breathing has ceased or is labored, start artificial respiration to clear lungs of contaminated air. Prior to applying mouth to mouth respiration, try to expel gas from victim's lungs by pressing down the chest, to prevent rescuer himself from being exposed by breathed H₂S. Apply O₂ resuscitator as soon as available on site to support respiration, once the victim resumes breathing spontaneously.
- If it is impossible to move victim to fresh air, apply resuscitator immediately after checking victim's mouth as above. The role of oxygen in the treatment of H₂S poisoning is essential: this is the fastest method for counteracting the effects of H₂S inhalation. Keep then victim at rest and prevent the victim from becoming cold. Then evacuate the victim, if necessary.
- If eye contamination has occurred, flush with clear water for up to 10 minutes.
- Treatment to enhance detoxification exists but requires extreme care & high medical knowledge and therefore be carried out by a qualified medical practitioner.
- First Aid and medical equipment shall include:
 - Oxygen resuscitator and inhalator
 - Eye wash solution
 - Usual first aid equipment





Appendix A

H₂S Detection Equipment (Location &Quantities) for Drilling Rigs

Personal H ₂ S Monitors Minimum 15 (actual		provided after risk	assessment)
Fixed H ₂ S Gas Sensor	S		
RIG FLOOR	x 2 CELLAR	x 1 WASTE	E PIT x 1
MUD TANKS	x 1 SHAKERS	x 1	
TRIP TANK	x 1 CHOKE	x 1	
FLARE PIT	x 1 RIG SITE CAMP	x 1 TOTAL	10
Fixed LEL Gas Sensors	•		
RIG FLOOR	x 1 CELLAR	X 1 CHOKE	x 1
MUD TANKS	x 1 SHAKERS	x 1 TOTAL	05
H ₂ S Alarms			
RIG FLOOR STAIRS	x 1 RIG FLOOR	x 1	
MUD TANKS	x 1 SHAKERS	x 1	
GENERATOR			
LEL Aleman	TOTAL	09	
	v 1 DIC ELOOP	v 2	
SHAKEKS	X I RIG FLOOR	XS	
Multi Gas Detectors (H ₂ S, CO, LEL, O ₂)		
HSE OFFICE		x 2	
MUD TANKS ENGINE ROOM GENERATOR LEL Alarms SHAKERS Multi Gas Detectors (x 1 SHAKERS x 1 MINI CAMP x 1 MAIN GATE TOTAL x 1 RIG FLOOR	x 1 x 2 x 1 09 x 3 x 2	



Controlled Copy Do Not Duplicate For Internal Use Only

7.6 Management of Contractors, Subcontractors & Service Companies

OGM/P-HSE-7.6(08) Revision Number 8

Original Issue: June 25, 2007 This Issue: March 14, 2022

Updated By:

Muhammad Sameem Hussain Qaiser
Senior HSEQ Officer, OGDCL

Reviewed By:

Muhammad Mubashir Abbas

Manager HSEQ, OGDCL

Checked By:
Mahmood UI Hassan Khan
General Manager HSEQ, OGDCL

Approved By: Syed Khalid Siraj Subhani Managing Director, OGDCL

Change/ Revision Log

#	Description of Change
1	Added: Purpose
2	Added: Contract Modes
3	Added: Contract HSE Risk Determination
4	Added: Contractor Management

Associated Documents Approval & Issue

Related Document/ Record	Initiated by	Reviewed by	Checked/ Verified / Approved by
Supplier's/ Contractor's Performance Evaluation	End User	HSE Rep.	Concerned HOD



Controlled Copy Do Not Duplicate For Internal Use Only

7.6.1 Purpose

■ The purpose of this procedure is to give guidance for best practice in the HSE management of contractors through a defined structure, content and documentation. The ultimate goal is to identify and manage HSEQ risks related to contracted activities and services appropriately.

7.6.2 Contract Modes

(Ref. IOGP Report 423 "HSE management - guidelines for working together in a contract environment")

Contract Mode 1: "The contractor provides people, processes and/or equipment for the execution of the contract under the oversight, instructions and HSE-MS of the client (OGDCL).

The contractor has a management system to provide assurance that the personnel for whom it is responsible are qualified and fit for the work and that the processes, tools, materials and equipment they provide are properly maintained and suitable for the contract. This mode requires the contractor reports HSE performance data, including events and incidents, to the client.

Typically, this could apply to scopes of minor modification or maintenance/ turnaround work on a client owned and/or operated site."

Contract Mode 2: "The contractor provides people, processes, equipment and/or facilities for the execution of the contract, as a main rule, under its own HSE-MS, providing the necessary instructions and oversight and verifying the proper functioning of its HSE-MS.

This mode requires interfacing or bridging with the client's HSE-MS and also reporting HSE performance data including events and incidents to the client. The client is responsible for assuring the overall effectiveness of the HSE management controls put in place by the contractor, including its interface with Subcontractors, and ensuring that both the client's and the contractor's HSE-MS are compatible.

This could apply to scopes of work on either contractor, client or third party owned/operated sites. The location will typically drive the level of interfacing and bridging required based on risk".

Contract Mode 3: "The contractor provides people, process, equipment, and/or facilities for the execution of the contract under its own oversight, instruction, and HSE-MS that requires no interfacing or bridging with the client's HSE-MS and is not required to report HSE performance data including events and incidents to the client. However, this does not exclude the possibility that the client may wish to guide and influence HSE performance under this type of contract; may provide product quality or environmental specifications, quality control and acceptance testing, etc.; and/or may insist that the contractor comply with a code of conduct which addresses human rights, labor rights, corruption, etc.

Typically, this could apply to scopes of work on contractor owned/operated sites or third party sites, and include examples such as:

- manufacturing of products produced for the open market, which client purchases (e.g. vehicles)
- manufacturing of components in a factory together with the manufacture of components for other customers
- construction at contractor sites shared by other customers
- delivery of good or products to client locations by a contractor who is in business to deliver to many other companies
- activities in shared port facilities, in particular the 'international' port areas before customs clearance
- activities of military or law enforcement agencies, over which client cannot exercise control.

Other Mode 3 contractors provide services that can have HSE implications to client such that their service performance and management still require assessing prior to use and ongoing monitoring by client.

Examples include:

- any type of non-dedicated medical services, clinic or hospital
- catering supplied vendors
- hotels and other leased housing or office space
- taxi companies
- public transport including airlines."







Controlled Copy Do Not Duplicate For Internal Use Only

7.6.3 Contract HSE Risk Determination

- Each contract must be assessed to determine the HSE risk. This is accomplished by evaluating the activities that are covered in the contract work scope and performed by that contractor. The activity with the highest level of HSE risk determines the overall HSE risk of the contract. OGDCL shall not classify the contractor as an HSE risk but rather assesses their HSE MS and ability to manage that risk. Following provides further guidance on the assignment of contract HSE risk:
 - High or medium contract HSE risk is determined only for activities undertaken by "Reporting Contractors" (Mode 1 or 2 contracts).
 - Incidents: Contract HSE risk is concerned with hazards & associated risks leading to incidents during the performance of the contract. Consequential risks through bad design or materials are addressed through the technical specification of the contract.
 - Exposure through the location/ transportation: Some activities are not hazardous in themselves but become hazardous because of exposure through the location or transportation. In such cases, OGDCL shall allocate the contract HSE Risk to the contract that can affect the risk. In other words, only the contractor performing the activities and not those simply exposed to the hazard.
 - Competence: Competence of contractors and subcontractors is critical. Even low contract HSE risk activities can lead to incidents (immediate or delayed) if the competence of the workers involved is not adequate. The contract HSE Risk categorization is based on the assumption that the work will be done by competent workers that are properly trained to perform their assigned tasks.
 - Sublet: Many contracts allow further subletting the work, either in totality, between worksites or in mobilization activities. Where these activities are explicitly included within the scope of the contract and they are undertaken by a "Reporting Contractor", the contract cannot have low contract HSE Risk.

7.6.4 HSE Cognizant Procurement Cycle

■ OGDCL shall deploy a rigorous HSEQ compliant procurement philosophy based on following HSE Cognizant Procurement Cycle and it is reasonably believed that a properly spelled out contract can help to understand the expectations of OGDCL from contractor and anticipated deliverables by contractor:-

Step No.	Phase	Target	OGDCL	Contractor
Step I	Indent Preparation	Specifications to manage hazards related to the work shall be identified as scope & depth that OGDCL management needs to involve in next phases.	User's/ Indenting Department shall work with IRC and initiate the risk assessment and takes into account Technical, HSE and other domain's input if needed to finalize the specifications.	N/A
Step 2	Advertisement	TOR/ SOW shall be finalized and advertised. Confirmation of major hazards with outline targets criteria and methods for control.	Supply Chain Management (SCM) shall prepare bid documents and finalize advertisement for tendering.	Respond to advertisement: Discuss HSE responsibilities and staffing internally.





	Tender Períod	Preparation of Technical, Commercial, Quality Control and HSE Plans.	User's/ Indenting Department shall work with SCM, HSE and Technical domain, respond to clarification requests. The typical activities shall be to meet with contractor reps, site visits, communicate OGDCL's HSE System to contractors, etc.	Prepare HSE Plan along with the bid: Clarification requests, Meetings, Site Visits.
Step 3	Evaluation and Contract Award	Confirmation that contractor HSE Plan meets OGDCL criteria. Agreement with contractor on methods to be used, performance measurement criteria and audit/review strategy.	User's/ Indenting Department shall ensure that HSE requirements be included in the contract. Typical activities shall be to evaluate bids, raise clarifications on contractor's HSE Plan and finalize Contract.	Respond to clarifications / meetings.
	Mobilization	Confirmation that contractor's HSE Plan has achieved pre-execution targets.	User's/ Indenting Department shall be responsible for this phase. The typical activities may include pre-mobilization meeting, confirmation of contractor's HSE Plan, activities supervision, pre-execution audit.	Kick-off meeting, Confirm HSE Plan activities, Supervision, Induction, Training, Meetings, Inspections, Pre-execution status achievement.
Step 4	Kick-off	Assurance and verification that contractor systems are performing in line with contractor's HSE Plan.	User's/ Indenting Department shall be responsible. The typical activities may include kick-off meetings, communicate HSE requirements with fields supervisors, confirm the preparation of people and equipment are line to contract requirements, etc.	Supervision, Inspection, Induction, Training/Drills, Toolbox-Talks, performance review systems.
Step 5	Work in progress	Management of work activities, Milestone Review.	Location management shall be responsible. The typical activities may include routine walk through, site inspection/observation, investigation of incidents, auditing etc.	Supervision, routine HSE management, such as HSE meeting, inspections, c&p actions tracking, investigation of incidents, auditing, etc.
Step 6	Evaluation/ Close-out	Analysis and feedback of OGDCL and Contractor HSE Performance.	User's/ Indenting Department and Unit Management shall be responsible. The typical activities shall include Close- out meeting, communicate to contractor, feedback for future contract HSE Plans/Contract clauses.	Close-out report and feedback (to own management).







Controlled Copy Do Not Duplicate For Internal Use Only

7.6.5 Contractor Management

- OGDCL shall strive to ensure safety of contractor in line with OGDCL approved HSEQ Policy. The contractors shall be selected against HSEQ requirements.
- The company shall essentially include HSEQ requirements in the Service Order/ Contract/PO.
- Line management shall ensure through rigorous supervision that all contractor comply with HSEQ requirements during their period of engagement.
- During the project or services, Contractors shall be assessed for their HSEQ performance. Following KPIs will be communicated prior to execution of contract and shall be assessed periodically;
 - No. of HSE Inspections
 - ♦ No. of Hazards Reported (UB/UC) & actions taken within assigned time
 - No. of HSE Meetings
 - No. of Toolbox held
 - No. of JVA/ JHA Meetings
 - No. of Emergency Drill
 - No. of Near-miss Reported & actions taken within assigned time
 - No. of Trainings
- © Concerned Department/ Section shall use Supplier's/ Contractor's Performance Evaluation template to gauge the HSEQ performance of Contractor time to time and outcome shall be discussed in regular review meetings.

Meetings with Contractors:

- Formal meetings shall be convened with contractors with intent to ensure that the contractor is aware of the expectations on behaviors in the execution of the work; a pragmatic understanding of OGDCL commitment to HSEQ is imparted to contractor; all applicable requirements are conveyed to contractor; a list of highlighted areas for improvement in the HSE Plan and agree on actions to remove deficiencies is shared; and performance monitoring is defined based on the capability of the contractor, the activity risk level and concurrence on the reporting requirements & KPIs.
- Meetings at 3 Stages shall be planned as a) Pre-Job Meeting/Kick-off Meeting;
 b) Regular Review Meeting and c) Close-Out Meeting.
 - a. Pre-Job Meeting/ Kick-Off Meetings: These are carried out to explain OGDCL HSEQ commitment and expectations from Contractors with regard to HSEQ. The agenda shall include;
 - Scope of work and review of associated major hazards specific to contract.
 - Review of high risk activities & control management; confirmation of workers' competence; this includes both OGDCL and Contractor workers who are exposed to workplace hazards as defined in the scope of work.
 - Review of arrangements for sub-contractors.
 - Review of Contractor HSEQ Plan and/or Bridging Document and confirmation that roles and responsibilities have been clearly defined and understood as tabulated below:



#	<u>Title</u>	Specific Requirement
1.	HSE Policy	Contractors and Service Companies shall be held responsible, as a minimum, for compliance with the OGDCL's HSE Policy, in addition to all governmental regulations applicable to the scope of work being performed.
2.	HSE Field Team	Contractors and Service Companies shall be solely responsible for means and methods and for jobsite HSE by assigning appropriate strength of qualified Location HSE Coordinators, Supervisors and Medical Staff with specific duties at the project site, full time, from the first day.
3.	HSE Roles & Responsibilities	Contractors and Service Companies shall ensure that all personnel assigned on the project can safely perform the essential functions of their job assignment. Contractor shall ensure that personnel maintain the appropriate standards of HSE in connection with the work that is being performed.
4.	HSE Planning	Contractors and Service Companies shall submit, before the start of project, the detailed documents as follows: i. HSE Risk Assessment Plan ii. Health Monitoring Plan iii. Safety Monitoring Plan iv. Environmental Monitoring Plan v. Emergency Preparedness and Response Plan vi. Waste Management & Disposal Plan
5.	Toolbox Talk Program	Contractors and Service Companies shall develop and ensure project-wide Toolbox Talk Program as a series of numbered discussion topics on Safety, Health and Environmental matters as daily HSE briefings by its operational teams.
6.	Work Permit	Contracts and Service Companies shall strictly follow the Work-to- Permit System and shall provide plan of activities in advance, submit THAs/JHAs where required and engage only certified staff for the hot jobs.
7.	Safety Critical Equipment	Contractors and Service Companies shall ensure that the equipment (especially to be used on site for lifting and hoisting purposes) is certified from the third party and operators have proper permits / licenses.
8.	PPE	Contractor shall acquire and maintain adequate PPE and other/related safety gadgets of an approved type as required for the performance of the work to be safely performed.
9.	Hazard Communication	Contractors and Service Companies shall ensure proper labeling at all the pertinent safety risk areas with appropriate warning signs and instructions. It shall also be ensured that all original containers of hazardous chemicals or materials entering the project site to be properly labeled with the hazard warnings and related information.
10.	Incident Reporting	Contractors and Service Companies shall immediately report to OGDCL representative all significant and important incidents involving fatality, injury, illness, environmental impacts, near hits, and/or hazardous situations.
11.	Accident Investigation	Contractors and Service Companies shall investigate and report all accidents regardless of their nature so that the cause and means of prevention can be determined to prevent a reoccurrence.
12.	Environmental Procedures	Contractors and Service Companies shall immediately clean up the trash, spills, food waste, etc. and spills of chemicals, oils, whereas potentially hazardous wastes to be immediately reported to OGDCL representative.
13.	Waste Management	Contractors and Service Companies shall place designated drums, containers, bins, etc with specific labels as Collection Method for each waste-type and further ensure safe disposal of the hazardous waste.
14.	ERP	Contractors and Service Companies shall provide orientation on Emergency Preparedness and Response Procedure to its project team and ensure that its personnel are well aware of what procedures are in practice and who is to notify in the event of any emergency.
15.	HSE Performance Reports	Contractors and Service Companies shall submit to OGDCL representative an HSE Performance Review Report on fortnight basis.
16.	Workforce's Record	Contractors and Service Companies shall issue security pass for the staff engaged and provide a) copy of attested identity cards, b) employment cards, c) HSE training cards and c) health assessment cards of its project's approved staff to OGDCL.
17.	Surveillance Audits	OGDCL's representative shall visit the project site on sporadic basis to monitor the actual level of compliance on the HSE matters. All High risk contracts shall be audited based on pre-established HSE Criteria Checklist. HSE Audit shall be led by the concerned Department/ Sectional Rep. along with HSE Rep. as audit team member.





Controlled Copy Do Not Duplicate For Internal Use Only

- Mutual consensus on Contractor's auditing schedule (as applicable)
- Interaction of OGDCL and Contractor's emergency plans (security, pandemic disease, evacuation)
- b. Regular Review Meetings: It is preferable for the meetings to be held on site. The recommended minimum frequency for high risk contracts is fortnightly, respectively Monthly for medium risk contracts and Quarterly for low risk contracts. A formal agenda shall be set and minutes recorded. The agenda includes;
 - Details regarding Contractor's latest works and the way he ensured compliance with the legislative and OGDCL requirements
 - Review of gaps identified during Supplier's/ Contractor's Performance Evaluation and performance against agreed HSEQ KPIs including identified non-compliance issues, actions and improvement requirements
 - Progress in implementing the HSEQ Plan formally assessed and approved and any deviations from the HSEQ Plan
 - Verification of actions agreed during previous meetings/ discussions or inspections
 - Near misses/ incidents reports
 - Request of details regarding Contractor's latest HSEQ trainings, toolbox talks, self-audits and inspections – regular (acc. to schedule) and random
 - Upcoming works that require special safety measures and any project specific HSEQ issues
 - Share best practices & lessons learned and reinforce HSEQ importance within OGDCL and the expectation that Contractors share the same commitment (as applicable)
- **c.** Close-out Meetings: Items to be discussed during close-out meetings may include, without limitation:
 - Quality of HSEQ plan and its relevance to the overall contract performance, stipulating what was learned and how future, similar contracts should be structured
 - Positive aspects of learning and how they can be applied in the future
 - Analysis of Contractor's HSEQ performance, against both the HSEQ plan and KPIs, for mutual improvement
 - Critical HSEQ documentation and records associated with the contract
 - Recognition of excellent HSEQ performance areas and review of identified non-compliance issues
 - Final remarks about Supplier's/ Contractor's Performance and performance against agreed HSEQ KPIs in context of future relationship



Controlled Copy Do Not Duplicate For Internal Use Only

7.7 Use of Personal Protective Equipment

OGM/P-HSE-7.7(08) Revision Number 8

Original Issue: June 25, 2007 This Issue: March 14, 2022

Updated By:

Muhammad Sameem Hussain Qaiser
Senior HSEQ Officer, OGDCL

Reviewed By:

Muhammad Mubashir Abbas

Manager HSEQ, OGDCL

Checked By:
Mahmood-ul-Hassan Khan
General Manager HSEQ, OGDCL

Approved By: Syed Khalid Siraj Subhani Managing Director, OGDCL

Change/ Revision Log

#	Description of Change
1	Added: Dress Code Scheme for Head Office/ Office Buildings.
2	Updated: EN531 with EN ISO 11612
3	Updated: EN345-1 S1 with EN ISO 20345

Associated Documents Approval & Issue

Related Document/ Record	Initiated by	Reviewed by	Checked/ Verified / Approved by
PPE Need Assessment Matrix	Sectional IC	HSE Rep.	Location IC







7.7.1 Purpose of PPE

- The purpose of PPE shall be to protect the OGDCL employees, contractors, service companies and visitors from exposure to workplace hazards.
- PPE shall not be a substitute for the effective engineering or administrative controls and must be worn for personal protection ensuring that safety arrangements are in place.

7.7.2 Types of PPE

- Category A: The Basic PPE shall include a) Coverall/ Dangri, b) Warm Jacket/ Leather Jacket, c) Safety Shoes, d) Safety Glasses, e) Hard Hat, f) Ear Muffs and g) Cotton Gloves.
- Category B: The Specific PPE shall include a) Gloves (Leather, Chemical Resistant, and Latex), b) Face Shields (Welding Shields and Goggles), c) Flame Resistant Clothes, d) Long Safety Shoes, e) Gas Mask, f) Chemical Apron and f) Safety Harness.
- Category C: The Emergency PPE shall include complete Turnout Gear / Fire Kit (Fire Suit), SCBA/30 min., Air-Purifying Respirator (APR), and Safety Vests / Clothing with Reflective Material designed for high nighttime visibility.

7.7.3 PPE Matrix

- Considering practical guidelines for assessing the hazardous situations that are likely to arise under foreseeable work activity conditions and to match employee PPE to the identified hazards, each Location shall develop PPE Matrix for its individual Sections, based upon following:
 - (1) Impact
 - (2) Penetration
 - (3) Compression (roll-over)
 - (4) Chemical
 - (5) Heat
 - (6) Harmful dust
 - (7) Light (optical) radiation
 - (8) Drowning
 - (9) Falling
- PPE Matrix shall be documented by each Section in the tabular format given below and reviewed on an annual basis.

Task or work functions that are performe d by the Sectional workforce members	Safety glasses	Hard hat/Helmet	Safety vest/ harness	Coverall	Muff / plugs	Chemical goggle	Gum boot	Leather (gloves) / Insulating (gloves)	Chemical Resistance Gloves	Latex (gloves)	Face shield	Chemical apron	Welding goggles	Welding face cover	Welding gloves	Flame resistant cloth	Safety toed shoes	Dielectric safety shoes	Chainsaw chaps	Gas mask	Dust mask	SCBA	Air purifying (HEPA)	Others: (cotton gloves, etc.)
1.																								
2.																								
3.																								
4.																								1
5.																								
6.																								





Controlled Copy Do Not Duplicate For Internal Use Only

- Personal factors can impact the effectiveness of PPE or be a hazard in their own right and therefore be avoided/ managed with care as much as possible. Typically, these are as follows:
 - Rings, arm bangles, jewelry or similar ornaments shall not be worn.
 - Low profile 'sleeper' ear studs (one per ear) are acceptable
 - Watches shall have breakable non-metallic bands.
 - Long hair shall be tied back or enclosed in a hair net
 - Persons who may have to use breathing apparatus or face-fitting respiratory protection devices (e.g. areas where there is a risk of hydrogen Sulphide gas) shall not have beards and be clean shaven at start of shift. Moustaches that are neatly trimmed and do not interfere with correct functioning of respiratory PPE are permitted.
- The above list is not exhaustive and there may be other personal factors that should be taken into account on an individual basis. Some disabilities or impairments may have to be treated sensitively and in confidence.

7.7.4 Protection Mechanism

7.7.4.1 Head Protection

- Hard hats, or safety helmets, which meet the requirements of EN397, shall be worn in all designated work areas as outlined in the Location (Sectional) PPE Matrix. Hard hats shall be made of plastic and designed to hold chin straps. Chin straps shall be worn when working at heights.
- The selection of the helmets shall be made with the intention a) to reduce the force of impact of falling objects, b) to reduce the force of impact resulting from a blow which may be received off center or to the top of the head and c) to reduce the danger of contact with exposed high-voltage electrical conductors.
- Metal hard hats do not meet the standards for electrical resistance and therefore shall not be permitted.
- Hard hats shall be checked monthly for signs of damage, and replaced immediately if the hard hat becomes brittle, cracked or is otherwise damaged. Suspensions and shells shall be replaced per the manufacturer's recommendation. It is recommended that suspensions be replaced at least annually and shells be replaced every 3 to 5 years.

7.7.4.2 Eye Protection

- Safety glasses, with side impact protection, or goggles shall be worn in all designated work areas as outlined in the Location (Sectional) PPE Matrix. Glasses shall be designed and constructed to meet EN166-1F (or equivalent standard). Where regular prescription glasses are required to be worn, over protection such as over glasses or goggles shall be used.
- Both clear and tinted lenses shall be made available, with tinted lenses provided for protection against UV light damage. Tinted lenses shall not be used during hours of darkness.
- It is the individual's personal responsibility to maintain eye protection in a safe condition. Antifogging compounds for safety glasses/lenses shall be available and used to maintain clear vision when work conditions are impacted by fogging.
- Contact lenses are permitted, but their use shall not interfere with or be compromised by the work activity. Contact lenses do not provide eye protection and the wearer may have increased risk of eye injury from exposure to dusts and chemical vapors. Eye protection shall be worn in addition to the contact lenses.
- Special lenses are required when oxygen fuel cutting. Goggles are required when working with chemicals or in dusty conditions.





Controlled Copy Do Not Duplicate For Internal Use Only

7.7.4.3 Face Protection

- During work activities that involve grinding, chipping, and buffing, or where material could separate and become a projectile, a face shield shall be worn in conjunction with safety glasses/ goggles as defined by the job hazard analysis.
- Personnel working with chemicals, degreasers, detergents, or equipment that contains a hazardous or pressurized liquid or gas (e.g. wet cell batteries) shall wear non-vented, splash proof goggles. For exposure to hot or corrosive materials, a face shield shall be worn over the goggles.
- A welding hood, with non-glass visor, shall be worn over standard safety glasses when welding. Personnel engaged in sandblasting, water blasting or spray painting shall wear eye protection under the face shield or air supplied hood to protect the eyes and face from known hazards.

7.7.4.4 Hearing Protection

- Hearing protection shall be worn in all designated high noise areas. Hearing protection shall meet the requirements EN352-1 for earmuffs and EN352-2 for or ear plugs. Types of hearing protection will depend on the job hazard analysis and must meet personalized fit testing requirements.
- A quantitative noise survey shall be completed around all machinery and equipment located at the site to document sound level readings and identify areas that require hearing protection. The assessment shall include both permanent and temporary equipment.
- Signs shall be posted at each work location where continuous noise levels are at 80 dB (A) or greater over an 8 hour time-weighted average. Various forms of hearing protections shall be made available, such as disposable/ reusable ear plugs or hard hat mounted ear protectors, and shall be worn in posted areas. Hearing protection shall also be worn during operations that generate noise in excess of 80 dB (A).

7.7.4.5 Protective Clothing

- The wearing of Flame Resistant Clothing is required for all employees, contractors and visitors involved in a) production, plant & process operations and maintenance, b) drilling operations, services and maintenance, c) workover jobs/ live well servicing, d) well testing, e) handling of energized equipment, f) high voltage switching operations & maintenance, g) erection/modification of project facilities (that are located at a production facility) and h) activities assessed as hazardous during risk assessment.
- Flame Resistant Clothing is NOT required for workforce members working in field/ site offices (performing desk jobs), seismic operations, routine civil works & support services, logistics, material stores and project facilities (that are not located at a production facility).
- Flame Resistant Clothing shall comply with the following requirements:
 - Thermal protection: if the protective material is worn over another layer of fabric, the protective fabric shall exhibit an average Thermal Protective Performance (TPP) value of 4, before and after washing.
 - Flame Resistant Clothing materials shall comply with EN ISO 11612 or equivalent.
 - Reflective strips shall be visible across the arms, at a minimum, of each garment and conform to the ANSI/ ISEA 107-1999 Level 2 standards (or equivalent standard).
- All Flame Resistant Clothing and non-Flame Resistant Clothing shall be worn and maintained accordingly:
 - Personnel shall wear Flame Resistant Clothing as the outer-most garments except when other personal protective clothing is required (e.g. Chemical resistant suits, welder's leather, personal flotation devices, increased visibility vests).
 - Personnel should not wear synthetic blends such as nylon, polyester, rayon, polyethylene, etc. under the protective clothing. Natural fibers such as cottons or wools should be worn underneath.
 - Only long sleeved Flame Resistant Clothing shall be worn in designated Flame Resistant Clothing areas/jobs.







Controlled Copy Do Not Duplicate For Internal Use Only

- Flame Resistant Clothing shall be worn in such a manner as to completely cover the torso, arms and legs (sleeves rolled down & body fully zipped or buttoned up).
- Clothing should be laundered, repaired and taken out-of-service per the manufacturer's recommendations.
- Rain / Winter gear worn over Flame Resistant Clothing can negate the effectiveness of the protective layer, especially if the material would melt in a flash fire. Flame Resistant rain/winter gear is recommended where available.

Specifications of Coverall

Material: 100% Pre-shrunk Pure Cotton Drill Cloth or Flame Retardant Treatment (FRT) Cotton Drill Cloth (as per actual requirement)

Feature: Anti-Static

Weight: 180 - 200 gm/ m3

Stitches per Inch: 14

Color: Grayish Blue

- Formation:

 Upper half with concealed two-way black high-density polyester coil zip with press brass stud closure from top to bottom with neck open

 Straight cuffs of sleeves and trousers (coverall's lower half) with concealed press brass studs
- on cuffs and ankle openings One piece top stitched shirt collar
- Stretchable elasticized waistband/ elastic waist (left & right sides)
- . Officer's name tag embroidered on right side above chest pocket

- Pockets:
 Left sleeve pocket with pen pocket divider, small flap with hook-and-loop fastener (velcro

- Two 5" x 6-1/x" chest pockets with concealed zip closure
 Tool pocket on right leg/ knee (back side)
 ID card holder loop on chest right side above right front chest pocket
- Two radio loops
- Two back/ hip pockets
- Two side pockets with exterior-to-interior access

Reflector: 2" (50mm) wide white reflective FR striping around arms, legs and over the shoulders ANSI/ ISEA 107-1999 Class 2 standard or equivalent

Logo: OGDCL logo embroidered above left side chest pocket and on back (white thread)

- Logo: OGDCL logo embroidered above sett side chest pocket and on back (white thread)
 Special (where required):
 The wearing of Flame Resistant Clothing is required for all employees, contractors and visitors involved in a) production, plant & process operations and maintenance, b) drilling operations, services and maintenance, c) work-over jobs/ live well servicing, d) well testing, e) handling of energized equipment, f) high voltage switching operations & maintenance, g) erection/ modification of project facilities (that are located at a production facility) and h) activities assessed as hazardous during risk assessment.
 Flame Resistant Clothing materials must comply with EN ISO 11612 or equivalent.
 Flame Resistant Clothing is NOT required for workforce members working in field/ site offices (performing desk jobs), seismic operations, routine civil works & support services, logistics, material stores and project facilities (that are not located at a production facility).





7.7.4.6 Hand Protection

- All personnel shall wear gloves on the work site. Exceptions to this requirement, such as performing tasks that require additional finger dexterity, shall be approved by a supervisor and captured on the job hazard assessment or through the PTW system. Personnel shall use hand protection when performing work, not limited to, exposing the hands to absorption of harmful substances, cuts or lacerations, abrasions, punctures, vibrations, chemical burns, thermal burns and other harmful extremes in temperature.
- The use of fit for purpose protective gloves is mandatory when welding, oxygen fuel cutting, grinding, blasting, working with chemicals and when performing specific electrical functions or using hand tools. Leather gloves are required when rigging or handling materials. Gloves shall be free of holes and defects.
- The selection of hand protection shall be based on the specific task being performed, conditions present, and duration of exposure, potential hazards identified and performance characteristics of the glove material.

7.7.4.7 Foot Protection

- Safety-toed boots are required in all designated work areas outside the site office. Footwear shall meet the requirements of Safety footwear to EN ISO 20345 or equivalent. Protective footwear shall have leather or rubber uppers that extend above the ankle, an oil resistant sole, and a distinctive heel (raised 3/8 to $\frac{1}{2}$ inch across the entire heel) for climbing stairs and ladders.
- Lace up or pull on styles are accepted, however lace up boots provide better ankle support and are therefore preferred. Chemical resistant foot protection is required when handling or working with hazardous or corrosive materials. Exceptions to this requirement, such as use of safety shoes by short-term visitors, shall be approved by the Location IC.







Controlled Copy Do Not Duplicate For Internal Use Only

7.7.4.8 Personal Fall Protection

- Personal fall protection shall be worn in all designated areas and as required by the job risk assessment and Permit to Work. Fall protection shall be worn where there is a risk of falling from a height of 2 meters or more (including work areas within 2 meters of an open edge where there is the potential to fall 2 meters or more) or as detailed by the job risk assessment.
- The components of the personal fall protection system include:
 - An engineered and appropriately rated anchor point.
 - Automatic and/or self-locking connecting mechanisms.
 - A lanyard with deceleration capability.
 - A full body harness.
- All fall protection equipment shall be inspected before each use and maintained according to the manufacturer's recommendations. A register of fall protection equipment shall be maintained, including records of inspections for new and replacement equipment.

7.7.4.9 Respiratory Protection

G

- Respiratory protection shall be worn in all designated areas and as outlined by Location HSE Matrix. Respiratory protection shall meet the requirements outlined in OSHA 29 CFR Part 1910.134 Respiratory Protection (or equivalent standard). The PPE Matrix must address the following work environments:
 - Firefighting or confined spaces when there is a risk of insufficient oxygen.
 - Protection against H2S or other hazardous atmospheres.
 - Protection against dusts, mists, vapours, gases or particulates.
- When dealing with chemicals, check the MSDS for specific guidance on respiratory protection requirements. Where there is a risk of inhaling low levels of non-toxic dusts, disposable dust masks shall be required.

7.7.5 Color Code for Coverall, Dress code and Hard Hat (Safety Helmet):

Standardization in colors shall be as follows:

COIOI OI COV	erail for use in Operating Fleids/ siles
Grayish Blue	OGDCL Officers
ed	Firefighting Crew
ark Blue	OGDCL staff members; laborers (other than Officers)

Contractors shall comply as per their own company's policy

Dress Code for Head Office/ Office Buildings

Olive Green	Maintenance Staff (Plumber, Electrician, Carpenters etc)
Red	Fire Chief
Dark Green	Fireman/ Fire Supervisor
Head Chef	White
Black	Assistant Cook
Black Trouser with Blue Lining Shirt	Cooking/ Serving Staff
Light Blue	Janitors
Blue	HVAC

Note: No personnel shall wear loose dress and that of inferior quality fabric.

Color of Safety Helmet for working in PPE required areas

White	OGDCL Officers (Location ICs, Sectional ICs, Engineers, etc.)
Yellow	OGDCL staff members; laborers (other than Officers)
Green	HSE Reps. (Engineers/ Officers)
Red	Firefighting Crew
Blue	Employees of Contractors / Sub-contractors working at site
Brown	Welders or workers taking up high heat or high voltage jobs
Grey	All types of Guests/ Visitors





GO E

Operation: OGDCL's Integrated HSE System Manual

Controlled Copy Do Not Duplicate For Internal Use Only

7.7.6 Issuance of PPE

- The **Basic PPE** (Category A) shall be provided to all OGDCL employees irrespective of their designation as per entitlement in the existing policy. OGDCL shall provide the **Basic PPE** to contractors, service companies and visitors at operational sites for their stay period only.
- Five units of each **Specific PPE** (Category B) shall be allotted for two-year-basis to Sectional Heads at all OGDCL operational sites and they shall be liable to maintain this inventory.
- Sectional heads shall issue the **Specific PPE** (Category B) to the employee(s) only against the PPE requirements mentioned in the Work Permit to safely execute the job.
- Five units of **Emergency PPE** (Category C) shall be allotted to each Fire Section at all OGDCL operational sites and they shall be liable to maintain this inventory.
- OGDCL shall not be liable to pay any PPE allowance or associated amount to the employees: However washing allowance shall be provided as per the existing policy.

7.7.7 Cleaning and Maintenance

- All PPE shall be maintained, cared and stored as required in the manufacturer, supplier or user instructions or as the training requires.
- For the purposes of compliance, PPE shall be inspected, cleaned, and maintained at regular intervals so that the PPE provides the requisite protection.

7.7.8 Disposal

■ The contaminated PPE which cannot be decontaminated shall be disposed of in a manner that protects employees from exposure to hazards.





Controlled Copy Do Not Duplicate For Internal Use Only

7.8 Framework for Site Restoration

OGM/P-HSE-7.8(01) Revision Number 1

Original Issue: This Issue: January 20, 2021

Updated By: Muhammad Sameem Hussain Qaiser Senior HSEQ Officer, OGDCL

> Reviewed By: Muhammad Mubashir Abbas Manager HSEQ, OGDCL

Checked By: Mahmood-ul-Hassan Khan General Manager HSEQ, OGDCL

Approved By: Syed Khalid Siraj Subhani Managing Director, OGDCL

Change/ Revision Log

#	Description of Change
1.	Amended: Drilling (Operations) replaced with Drilling Services.
2.	Amended: Endorsement of restoration of hazardous pit from Regulatory Body instead of NOC (Ref. RACI Chart).
3	Added: Production site / Well(site) Plugging and Abandonment (P&A) Checklist

Associated Documents Approval & Issue

Related Document/ Record	Initiated by	Reviewed by	Checked/ Verified / Approved by
OGF – HSE – 033A Well(site) Handing Over Taking Over Checklist	Field HSE Rep.	Drilling Services/ Production Rep.	Location IC
OGF – HSE – 033B QC Checklist (Treatment & Restoration)	Field HSE Rep.	Drilling Services/ Production/ P&P Rep.	Location IC
OGF – HSE – 033c Production site/ Well(site) Plugging and Abandonment (P&A) Checklist	C&ESS/ PE&FD	Drilling Services/ Production/ P&P Rep.	Location IC





Controlled Copy Do Not Duplicate For Internal Use Only

7.8.1 General

Upon completion of drilling/ testing/ workover/ plugging and abandonment of a well/ abandonment of a production site, and where management, DGPC, local authorities and landowner agrees the facilities have no future use, custodians of the generated-waste shall restore the site to its previous condition as defined in this procedure.

Note-1: An abandoned well may be used as a disposal well to dispose off the produced water/ wastewater/ mud in the well by selecting a suitable formation below the aquifer in consultation with Reservoir Department.

7.8.2 Primary Responsibility Towards Treatment & Restoration of Pits

- Treatment and restoration of *drilling pits* shall be the primary responsibility of **Drilling Services** as custodian of the generated-waste.
- Treatment and restoration of *produced water pits* shall be the primary responsibility of **Production Deptt.** as custodian of the generated-waste.
- Treatment and restoration of pits associated with a Gas Processing and LPG Recovery Plant shall be the primary responsibility of **P&P Deptt.** as custodian of the generated-waste.

Note-2: After successful completion of a well/ workover, each well(site) shall be handed over to Production Deptt. once all requisite HSE aspects, especially related to wastes including pits, have been duly addressed as mentioned in the Well(Isite) Handing Over Taking Over Checklist.

7.8.3 Assessment/ Categorization of Pits

- A pit wastes usually contains both solid and liquid components. Constituents and characteristics of environmental concern may include salts, hydrocarbons, pH value, chemicals and biologically available heavy metals.
- The constituents have the possibility of impacting soil and water quality, therefore all pits which have no operational requirement shall be restored.
- HSEQ Department shall take the lead to carry out laboratory analysis of each pit in the light of EPA regulatory requirements through concerned Department and based upon results, categorize a pit as nonhazardous or hazardous.
- However, hazardous pits with substantial hydrocarbon content and/ or oily sludge may be auctioned as per company rules and subsequently the pit shall be restored accordingly as defined in this procedure.

7.8.4 Pits Restoration Process

7.8.4.1 Nonhazardous Pits

- Restoration requisition shall be initiated by Drilling Services/ Production/ P&P Deptt. as the case may be and forwarded to C&ESS Deptt.
- Restoration shall be carried out by C&ESS Deptt. either employing its own resources or outsourcing the job to waste management contractor.
- In case of outsourcing, TORs/ Invitation-to-Bid (ITB) document shall be prepared by C&ESS Deptt. having inputs from the concerned Departments and perform technical evaluation of the bids accordingly.

7.8.4.2 Hazardous Pits

- Drilling Services/ Production/ P&P Deptt. may outsource the treatment job to waste management contractor as per requirement.
- The <u>restoration</u> part may either be referred to C&ESS Deptt. or Drilling Services/ Production/ P&P Deptt. may outsource it directly to the waste management contractor along with the *treatment* part.
- TORs/ Invitation-to-Bid (ITB) document shall be prepared by Drilling Services/ Production/ P&P Deptt. having inputs from HSEQ Deptt. in the light of EPA regulatory requirements for the <u>treatment</u> job and technical evaluation of the bids shall be carried out accordingly.

7.8.4.3 Execution and Quality Control

- Drilling Services/ Production/ P&P Dept. shall ensure that the restoration is executed as per TORs in consultation with HSEQ Deptt..
- Laboratory results of the treated water/ cuttings/ soil samples shall be benchmarked against the permissible limits defined by regulatory body(ies)







Controlled Copy Do Not Duplicate For Internal Use Only

- or best industrial practice(s) and may be compared with surrounding undisturbed soil, where required.
- QC Checklist presenting overview of restoration of hazardous pits shall be developed by HSEQ Deptt.; and the same shall be filled&signed by HSEQ and Drilling Services/ Production/ P&P Reps.

7.8.4.4 Budget Allocation and Invoicing

■ Budget allocation, verification and processing of invoices shall be the responsibility of Drilling Services, Production, P&P and C&ESS Department.

RACI Chart								
Task/ Deliverable	C&ESS	Drilling Services	Production/ P&P	HSEQ	CSR			
Initiation/ Custodianship	1	R&A	R&A	С	1			
Budget Allocation/ A.F.E.	R&A	R&A	R&A	I	1			
Assessment/ Categorization	1		I	R&A	1			
T.O.R./ I.T.B.	R&A	R&A	R&A	С	I			
Technical Evaluation	R&A	R&A	R&A	С	1			
Job Execution/ Coordination	R&A	R&A	R&A	С	1			
QC/Lab. Analysis/Progress Reporting	R&A	R&A	R&A	С	1			
Conflict Resolution	R&A	I	I	I	R&A			
Invoice Verification	R&A	R&A	R&A					
N.O.C. from Landowner(s)	1	ı	I	I	R&A			
Endorsement Certificate from RB*	I	R&A	R&A	С	I			

^{*}RB = Regulatory Body

In case of Nonhazardous Pits In case of Hazardous Pits In case of Both Pits



Note:

R = Responsible: Doing The Decision; This Departmental role is responsible for getting the decision and starting the task or deliverable.

A = Accountable: Owning The Task; This Departmental role is responsible to ensure execution and completion of the task or deliverable.

C = Consulted: Assisting, as subject matter expert; This Departmental role is responsible to provide information useful to completing the task or deliverable.

I = Informed: Keeping Aware; This Departmental role is just kept up-to-date on the task or deliverable (as it can be affected by the outcome).

7.8.5 Restoration of Production site/ Well(site) after Plugging & Abandoning (P&A)

7.8.5.1 Restoration of Soil

- Area shall be jointly visited by Representatives of a) Drilling Services/ Production/P&P, b) Land Management/CSR, c) C&ESS and d) HSEQ Deptt. and any contaminated soil within and around the wellsite fence boundary shall be marked.
- Laboratory analysis of the soil shall be the responsibility of concerned Departments.
- C&ESS Deptt. shall remove the contaminated soil (if any) and where required handover it to waste management contractor/ bioremediation facility for treatment and backfill the area with clean/ treated soil.

7.8.5.2 Surface Facilities Removal

- Following surface facilities from the wellsite shall be removed by Production/ PE&FD;
 - Oil, gas and water supply lines
 - Solar arrays & batteries for solar panels
 - Wellhead control panels
 - Skid mounted separator
 - Surface piping/ pipe racks/ pig launcher
 - Cables/ cable trays
 - Chemical injection tank
 - Every sort of instrumentation
 - Any other

7.8.5.3 Cellar Area

Civil construction in the cellar may be dismantled and cellar backfilled with soil with the consultation of Drilling Services/ Production Deptt.







Controlled Copy Do Not Duplicate For Internal Use Only

7.8.5.4 Septic Tank and Soak Pit

Septic tank shall be broken and after neutralizing the material, the septic tank/ soak pit shall be leveled with clean soil having an extra 1 meter layer.

7.8.5.5 Flow Line

All the surface and underground flow lines and other facilities shall be removed entirely from end to end by Production/ PE&FD Deptt.

7.8.5.6 Fence and Civil Construction

- Fence including main gate, mesh/ barbed/ razor/ concertina wire and anti-snake sheet around the well-site shall be removed by C&ESS Deptt..
- Civil construction like accommodation facilities, barracks, secondary containment for diesel/ chemicals and foundations may be removed by C&ESS Deptt.
- All concrete structures e.g. pads/ flow line supports, etc. at wellsite shall be removed by C&ESS Deptt.

7.8.5.7 Water Source/ Tubewell

Decision on the dismantling or usage/ handing over of water sources like tubewell(s) may be made by RC/ CSR Officer/ Land Management Section in consultation with landowner(s)/ local administration.

Note:-3 After successful plugging & abandonment (P&A) of a production site/well(site), the site shall be handed over to the landowner/custodian once all the requisite aspects have been duly addressed as mentioned in the Production site/Well(site) Plugging and Abandonment (P&A) Checklist.

7.8.6 Conflict Resolution

- Handling of locals' related complaints arising from the waste management services as well as their redressal shall be the responsibility of CSR Deptt.
- Hiring of legal counsel in case litigation arises from the waste related matters shall be the responsibility of Legal Services Deptt.
- NOC from landowner(s) shall be acquired by RC/ CSR Officer/ Land Management Section.
- Endorsement of restoration of hazardous pit from regulatory authority (ies) shall be acquired as per regulatory requirements.





Controlled Copy Do Not Duplicate For Internal Use Only



OGC/HSE-33A(01)

Well(site) Handing Over/ Taking Over Checklist

Nom	enclature of Well(site):		Date:	
#	DESCRIPTION	Yes	No	RESPONSIBILITY
01	Dismantling/ removal of unnecessary auxiliaries from the well(site) have been ensured in a safe manner.			Drilling/ Production
02	Installation/ condition of Xmas Tree and provision of necessary auxiliary equipment at safe distance have been ensured.			Drilling/ Production
03	Installation/ condition of H2S/ HC detectors and fire protection fusible plugs have been ensured.			Drilling/ Production
04	WBM/ OBM drill cuttings have been removed and safely disposed.			Drilling/ C&ESS
05	Pits with "no" future use have been treated/ safely restored and rehabilitated.	5===		Drilling/ C&ESS
06	Pits with future use have been treated/ maintained, decanted and properly fenced.			Drilling/ C&ESS
07	All chemicals and associated areas have been safely cleaned and cleared.			Drilling/ Production
08	All temporary installations have been safely removed.			Drilling/ C&ESS
9	Wellhead cellar pit has been decanted and properly cleaned.			Drilling
10	Wellhead area has been fenced as per requirement.			C&ESS
11	Proper safety signboards have been configured at appropriate places.			Drilling/ Production

Field HSE Rep.
Prepared & Initiated by:

Drilling Services/ Production Rep.
Checked &Verified by:

OM/ PM/ FM Endorsed by

It is hereby endorsed that all of the above requisite HSE aspects have been duly checked and found properly addressed and in compliance before handing over/ taking over of the well(site).

Handed Over By: (Sign & stamp) Taken Over By: (Sign & stamp)







SAN ECLE		Oil Gas Development Company Limited Location:			OGC/-HSE-338(01)		
	HSEQ Department OC Checklist for Treatment/ Restoration of Pit						
Non	nenclature	of Pit:		D	ate:		
#	8	DESCRIPTION	Y	N	REMARKS		
01		equipment/ materials/ chemicals available at site adequate and iate to carry out treatment/ safe disposal of wastewater and site ion?					
02		contractor's workforce available at site adequate and competent rm the assigned tasks as per TORs or scope of work?					
03	. 0000000000000	"treatment" methodologies conform/ meet TORs & scope of treatment/ safe disposal of wastewater?					
04	10.000.000.000	"restoration" methodologies conform/ meet TORs & scope of rehabilitation/ restoration of hazardous pits?		П			

Is Joint Sampling carried out during the pretreatment/ pre-restoration phase by environmental monitoring laboratory to conduct tests for parameters as mentioned in scope of work? Are the desired lab reports

Is Joint Sampling carried out during post-treatment/ post-restoration phase by environmental monitoring laboratory to conduct tests against

the regulatory requirements/ best industrial practices? Are the desired

Are photographs taken "before" treatment of wastewater/ restoration of

Are photographs taken during and upon completion of the wastewater treatment/ pit restoration preferably on daily basis for submission of

Is progress like visual/ physical inspection on wastewater treatment/ pit

Has RC/ CSR Officer/ Land Management Section acquired NOC(s) from

Has the regulatory body(ies) (where required) endorsed the treatment

Field HSE Rep. Prepared & Initiated by:

process in a formal manner?

the landowner(s)?

kept in record?

lab reports kept in record?

pits for record and reference?

progress reports to H.O. and also for record?

restoration process found satisfactory?

06

07

09

10

11

Drilling Services/ Production/ P&P Rep. Checked &Verified by:

OM/ PM/ FM Endorsed by





OGC/HSE-33C(00)



Oil Gas Development Company Limited

Production site/ Well(site) Plugging and Abandonment (P&A) Checklist

Nomenclature of Well(site): _ Date: _

#	DESCRIPTION	Yes	No	RESPONSIBILITY
01	Surface facilities have been removed safely including:	\top		Production/ PE&FD
a.	Oil, gas and water supply lines			Production/ PE&FD
b.	Solar arrays & batteries for solar panels			Production/ PE&FD
c.	Wellhead control panels	\vdash		Production/ PE&FD
d.	Skid mounted separator			Production/ PE&FD
е.	Surface piping/ pipe racks/ pig launcher	\vdash		Production/ PE&FD
f.	Cables/ cable trays			Production/ PE&FD
g.	Chemical injection tank			Production/ PE&FD.
h.	Every sort of instrumentation			Production/ PE&FD
i.	any other	\vdash		Production/ PE&FD
02	Civil construction like accommodation facilities, barracks, secondary containment for diesel/ chemicals and foundations dismantled?			C&ESS
03	Concrete structures e.g. pads/ flow line supports, etc. removed?			C&ESS
04	Cellar backfilled with soil?	\vdash		C&ESS
05	Wastewater pit(s) treated /restored/ rehabilitated?			Drilling/ Production/ C&ESS
06	Septic tank(s) and Soak Pit(s) tank neutralized and backfilled with soil having 1 meter extra layer?			C&ESS
08	All the underground flow lines removed?			Production/ PE&FD/ C&ESS
09	Fence including main gate, mesh/ barbed/ razor/ concertina wire and anti-snake sheet removed?			C&ESS

Page 1 of 2



10	Decision amicably taken on the dismantling or usage/ handing over of water sources like tube well(s)?	C&ESS/ CSR
11	Issue resolved with the locals (if any)?	C&ESS/ CSR
12	NOC obtained from land owners?	C&ESS/ CSR
13	Regularity authority(ies) endorsed site restoration (if required)?	Drilling Services/ Production/ P&P/ HSEQ

Drilling Services/ Production/ C&ESS/ PE&FD Rep. OM/ PM/ FM P&P Rep. Prepared & Initiated by Checked & Verified by **Endorsed by**

It is hereby endorsed that all of the above requisite aspects have been duly checked and found properly addressed and in compliance before handing over/ taking over of the plugged & abandoned well(site) to the landowner(s).

Handed Over By: Taken Over By: (Sign & stamp) (Sign & stamp)

Page 2 of 2

