



Control of Work : **IMO RIVER FACILITIES-01-142458**
State : **Suspended (Live 30 Sep 08:17 - 30 Sep 19:00)**
Cold Work - Medium



Title CONSTRUCTION OF FIRE-BREAKS AT THE IMOR AGG CITADEL FENCE
Description of work: MOBILIZATION
SITE INSPECTION.
CLEARING AND SURFACE PREPARATION
AREA DEMARCATION AND WALL FORMATION
MIXING AND CASTING OF CONCRETE.
HOUSE KEEPING.
DEMOBILISATION.

Details

Planned start date: 20 Sep 2019
Planned end date: 03 Oct 2019
Working hours: 07:00 19:00
Site: IMO RIVER FACILITIES
Work locations: UTILITY AREA
Equipment description: BUNDWALL AREA
Minimum number of persons: 4
Work order number:
Tools to be used: WHEEL BARROW, SHOVEL, HEAD PAN, COOPER HAMMER, TROWEL, TAPES, ETC.
Vehicles/Equipment to be used COVERALL, HARD HAT, EYE GOGGLE, EAR MUFF, HAND GLOVES, SAFETY BOOTS/RAIN BOOTS.
ICC Requirement None
Lead Discipline: Operations
Influence of nearby activities:
Permit types from questionnaire Cold Work

Signature History

Type	Name:	Date:	Dep./Company:
Re-issue permit by Permit Issuer	SALISU HASSAN	30 Sep 2019 08:18	Shell
Suspend by Issuer	SALISU HASSAN	28 Sep 2019 18:52	Shell



Suspend by Permit Holder	ABIODUN OGinni	28 Sep 2019 18:41	Shell
Accept revalidation by Permit Holder	ABIODUN OGinni	28 Sep 2019 08:47	Shell
Re-issue permit by Permit Issuer	SALISU HASSAN	28 Sep 2019 08:41	Shell

Suspended



Title: CONSTRUCTION OF FIRE-BREAKS AT THE IMOR AGG CITADEL FENCE

Team: ABIODUN OGinni, Eniola Aboaba, NWOKE FLORENCE

Approval:

19 Sep 2019 20:17	ABIODUN OGinni
19 Sep 2019 19:39	Eniola Aboaba
21 Aug 2019 08:32	Matthew Oghenebrume
18 Sep 2019 19:55	NWOKE FLORENCE
19 Sep 2019 20:18	SUNNY UKENYE

Task steps	Hazards	Control measures		Action party
MOBILISATION TO SITE.	Hand Tools - ALL (MOTION)	Wear appropriate hand protection suitable for task	S	Permit Holder
	Slippery Surfaces (MOTION)	Follow right route to site	S	Permit Holder
		Remove any Slip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Holder
SITE INSPECTION	Communication (PEOPLE)	During permit issuance and toolbox talk/Last Minute Risk Assessment discuss and agree the methods of communication within the work party, with Operations (if necessary) and with Emergency Responders (if necessary)	S	Permit Holder
	Emergency Response (PEOPLE)	A job specific emergency response plan must be available. The plan must be reviewed and understood by the work party. The plan should include: Notifications, Roles and Responsibilities, Initial Actions, Equipment and General Tactics	S	Permit Holder
		Ensure adequate induction is done prior to start of job	P	Permit Holder
	Exposure to Wildlife bites, stings (PEOPLE)	AVOID STRONG PERFUMES	S	Permit Holder
		Survey work area before start to ensure it is clear of wildlife	S	Permit Holder
		Use insect repellent	S	Permit Holder
	Noise (PEOPLE)	Keep the exposure of personnel to noise below 85dB(A) for an eight-hour Noise Dose	S	Permit Holder
		Peak noise levels in the work place must be below 140dB(C) This value applies irrespective of the duration of the exposure or the use of hearing protection	S	Permit Holder
		Use double hearing protection [ear plugs and Ear defenders] to keep noise exposure below 85dB(A)	S	Permit Holder



		Use hearing protection that fits, and reduces exposure of personnel below 85dB(A) for an eight-hour Noise Dose	S	Permit Holder
	Weather (PEOPLE)	Do not work under adverse weather condition	S	Permit Holder
		Observe intermittent rest	S	Permit Holder
		Wear wet and/or cold weather gear, helmet lanyards or chin straps	S	Permit Holder
CLEARING AND SURFACE PREPARATION	Hand Tools - ALL (MOTION)	Use suitable and correct hand tool	S	Permit Holder
		Wear appropriate hand protection suitable for task	S	Permit Holder
	Pinch Points and Caught Between (MOTION)	Identify possible pinch point hazards in the work area Never put yourself or any part of your body in a pinch point area unless it is safe to do so (LOTO in place)	S	Permit Holder
		Use impact resistant gloves	S	Permit Holder
	Sharp, abrasive objects (MOTION)	Use cut resistant gloves (cut level 4 or more)	S	Permit Holder
		Wear arm protectors	S	Permit Holder
	Slips & Trips (MOTION)	Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Holder
	Exposure to Wildlife bites, stings (PEOPLE)	Survey work area before start to ensure it is clear of wildlife	S	Permit Holder
		Use insect repellent	S	Permit Holder
	Noise (PEOPLE)	Keep the exposure of personnel to noise below 85dB(A) for an eight-hour Noise Dose	S	Permit Holder
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		Use hearing protection that fits, and reduces exposure of personnel below 85dB(A) for an eight-hour Noise Dose	S	Permit Holder
	Weather (PEOPLE)	Do not work under adverse weather condition	S	Permit Holder
		Observe intermittent rest	S	Permit Holder
		Wear wet and/or cold weather gear, helmet lanyards or chin straps	S	Permit Holder



AREA DEMARCATION AND WALL FORMATION	Hand Tools - ALL (MOTION)	Wear appropriate hand protection suitable for task	S	Permit Holder
	Sharp, abrasive objects (MOTION)	Use cut resistant gloves (cut level 4 or more)	S	Permit Holder
		Wear arm protectors	S	Permit Holder
	Slips & Trips (MOTION)	maintain good housekeeping at site	S	Permit Holder
		Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Holder
	Fatigue (PEOPLE)	Buddy system to be used when personnel continue to work past 12 hours in a single shift	S	Permit Holder
		Comply with the Site/facility/asset requirements regarding maximum work hours and required rest days	S	Permit Holder
		Prior to start of work request work party to self report if they are suffering from fatigue	S	Permit Holder
	Fitness to Work (PEOPLE)	For the following roles confirm that the employees have completed and passed a fitness to work evaluation: Crane operators, professional drivers, remote location workers, users of respiratory protection, emergency responders, aircraft refuelers, and catering personnel	S	Permit Holder
	Weather (PEOPLE)	Observe intermittent rest	S	Permit Holder
		Set weather limitations (lighting, rain, wind speed) and stop work when limit is exceeded	S	Permit Holder
	Manual material handling (Additional Hazards)	Do not carry excessive load	S	Permit Holder
		Maintain good posture while carrying loads	S	Permit Holder
		Wear effective hand gloves	S	Permit Holder
MIXING OF CONCRETE AND CASTING	Sharp, abrasive objects (MOTION)	proper handling of tools	S	Permit Holder
		Use cut resistant gloves (cut level 4 or more)	S	Permit Holder
	Communication (PEOPLE)	During permit issuance and toolbox talk/Last Minute Risk Assessment discuss and agree the methods of communication within the work party, with Operations (if necessary) and with Emergency Responders (if necessary)	S	Permit Holder
	Fatigue (PEOPLE)	Buddy system to be used when personnel continue to work past 12 hours in a single shift	S	Permit Holder
		Comply with the Site/facility/asset requirements regarding maximum work hours and required rest days	S	Permit Holder



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	Fitness to Work (PEOPLE)	For the following roles confirm that the employees have completed and passed a fitness to work evaluation: Crane operators, professional drivers, remote location workers, users of respiratory protection, emergency responders, aircraft refuelers, and catering personnel	S	Permit Holder
	Weather (PEOPLE)	Set weather limitations (lighting, rain, wind speed) and stop work when limit is exceeded	S	Permit Holder
	Chemical (TOXICS)	Chemical protective clothing, impervious gloves (appropriate for the chemical used), goggles, face shield for corrosives	S	Permit Holder
		Obey cement SHOC instruction	S	Permit Holder
		Provide eye wash or availability of running fresh water near site	P	Permit Holder
	Manual material handling (Additional Hazards)	Do not carry excessive load	S	Permit Holder
		Maintain good body posture while carrying load	S	Permit Holder
		Wear effective hand gloves	S	Permit Holder
DEMOBILIZATION	Communication (PEOPLE)	During permit issuance and toolbox talk/Last Minute Risk Assessment discuss and agree the methods of communication within the work party, with Operations (if necessary) and with Emergency Responders (if necessary)	S	Permit Holder
HOUSE KEEPING.	Sharp, abrasive objects (MOTION)	Use cut resistant gloves (cut level 4 or more)	S	Permit Holder
	Slips & Trips (MOTION)	Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Holder
	Communication (PEOPLE)	During permit issuance and toolbox talk/Last Minute Risk Assessment discuss and agree the methods of communication within the work party, with Operations (if necessary) and with Emergency Responders (if necessary)	S	Permit Holder
	Noise (PEOPLE)	Keep the exposure of personnel to noise below 85dB(A) for an eight-hour Noise Dose	S	Permit Holder
		Peak noise levels in the work place must be below 140dB(C) This value applies irrespective of the duration of the exposure or the use of hearing protection	S	Permit Holder
		Use double hearing protection [ear plugs and Ear defenders] to keep noise exposure below 85dB(A)	S	Permit Holder
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IF ONE OF THE QUESTIONS ON THE TRIC HAS BEEN ANSWERED WITH **NO**

- Stop working, do not start work
- Warn your supervisor, Permit Issuer/Permit Verifier and/or Operator

UNLESS DISCUSSED IN ADVANCE

All operational personnel have participated in the JHA and are familiar with its content;

Name	Initials	Name	Initials
.....
.....
.....
.....
.....

If the equipment is being opened for the first time and/or a permit is granted for the first time, Operations will check the workplace.

Name and initials of Operations representative

.....

The Senior Operations Technician /Shift Supervisor does not need to attend the toolbox talk, but will familiarize himself with the contents of the completed TRIC.

Name and initials of SOT/SD supervisor

.....

What is the (biggest) risk at this site?

.....

What are the controlling measures?

.....

Pictograms for key hazards



Hand Tools - ALL



Pinch Points and Caught Between



Sharp, abrasive objects



Slips & Trips



Chemical



Communication



Emergency Response



Exposure to Wildlife bites, stings



Fatigue



Fitness to Work



Noise



Weather

LAST MINUTE RISK ANALYSIS (LMRA) IS EVERYTHING UNDER CONTROL? Discuss the risks **with everyone** at the workplace

- Before you begin on a task or
- In event of changing circumstances

EMERGENCY NUMBERS

- 1st contact:
- 2nd contact:
- Mobile telephone:



Name of holder ABIODUN OGinni
Company Shell
Permit number IMO RIVER FACILITIES-01-142458
Date 28 Sep 2019

What kind of work are you going to do?

MOBILIZATION
SITE INSPECTION.
CLEARING AND SURFACE PREPARAION

	Yes	No	N.A.
Has the applicant discussed the work permit with the holder?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is your work so safe that no risk is posed to others?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is other people's work so safe that no risk is posed to yourself?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have work arrangements been made with other permit holders for the same task?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What will you do if something goes wrong?

	Yes	No
Do you know what to do in case of an alarm?	<input type="checkbox"/>	<input type="checkbox"/>
Do you know which direction the wind is coming from?	<input type="checkbox"/>	<input type="checkbox"/>
Are the escape routes and muster points accessible?	<input type="checkbox"/>	<input type="checkbox"/>
Do you know what to do in case of an accident?	<input type="checkbox"/>	<input type="checkbox"/>
Do you know where the emergency showers and eyewash stations are?	<input type="checkbox"/>	<input type="checkbox"/>

Indicate which Life Saving Rules are applicable.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work with a valid work permit when required	Conduct gas tests when required	Verify isolation before work begins and use the specified life protecting equipment	Obtain authorisation before entering a confined space
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Obtain authorisation before overriding or disabling safety critical equipment	Protect yourself against a fall when working at height	Do not walk under a suspended load	Do not smoke outside designated smoking areas
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No alcohol or drugs while working or driving	While driving, do not use your phone and do not exceed speed limits	Wear your seat belt	Follow prescribed Journey Management Plan



Slippery Surfaces



LEARNING FROM INCIDENTS AWARENESS ALERT



Hand Injury While Using Hand Tool

HSE – 252 - L

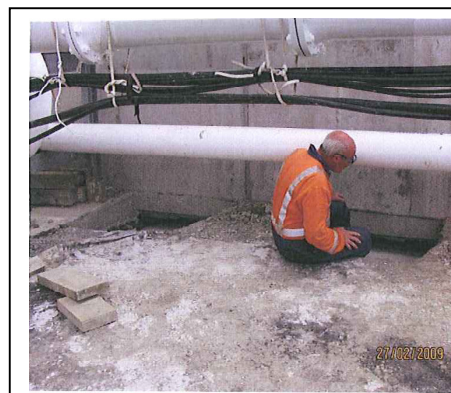
Shell Oceania Distribution

Fountain 333104

10 Mar 09

What happened

On 17 February 2009, a contracted worker at the Shell Lyttelton Site 1 project injured two fingers on his left hand. At the time of the incident, the worker, along with another worker, was digging two holes under a tank bund wall using shovel and crowbar. The two workers in close proximity doing the task (see photo for restricted workspace). The worker had rested the crow bar against a wall and while they were digging, the bar slid down the wall. He reached out to grab the bar but only caught it by his left hand and only by his little and index fingers, causing instant swelling of this hand and wrist. (Note: the crowbar is a 1.8m long steel bar). The job was ceased while medical treatment was sought for the injured worker who was immediately taken to a medical centre for treatment where a doctor advised him that he should be taken to a hospital. At the hospital, the worker was told he would require surgery the next day and was sent home on advice of doctor to return the following day. At the hospital the following day the worker was eventually advised there was no need for surgery or further medical treatment other than two days rest.



Area where incident occurred

Lessons learned

- (Incident Management) Although the contractor issued an incident alert soon after the incident, there was no evidence of a new risk assessment being conducted prior to recommencing and completing the task.
- (Unsafe placement of equipment or objects) The worker placed a heavy hand tool (crowbar) against a wall close to the area in which he was working.
- (Hazard Identification and Control) Previous review of the task had not identified any specific risks with the task and the temporary storage of the crowbar during the work.
- (Unsafe storage of objects, proper housekeeping while working) The crow bar that had been placed against the wall was not secure and slid from its temporary resting position.
- (Unsafe behaviour) The worker attempted to stop its fall and the impact with his left hand, occurred with some force due to its weight. There would have been no harm to people or assets had the crowbar slid down to the ground.
- (Hazard Identification and Control) A "Walk and Talk" was carried out by the worker, his co-worker and the supervisor prior to starting the task, this did not identify any specific risks associated with the task and it was decided to proceed under the current site Work permit without any further risk mitigation strategy.



Goal Zero: Zero injuries, Zero fatalities

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- (Hazard Identification and Control) The Walk & Talk was not formally documented. Failure to identify two workers in close proximity using heavy hand tools was a risk. The establishment of separate workspaces was not effective due to the proximity to each other. This allowed the hazards from each workspace to potentially impact the other.
- (Hazard Identification and Control) Whilst it was not identified as being required, a Work Method Statement is not available for this specific task, general work instructions are included in the contractor safety manual for use of manual tools.

What to do

1. All Line Managers and Supervisors where a similar activity described on this LFI happens or could happen should assess risks identified and take into account learning and recommendations described herein.
2. Take note and discuss the actions described below for applicability within your operations and identify gaps. Action items should be identified to close gaps and entered into FIM as a potential incident to ensure close out.
3. Introduce requirement for a Risk Assessment for all non-routine activity not identified on current Work Permits for the site.
4. Ensure that behavioural-based work observation checks or processes are in place and consistently delivered by supervisors, especially when new or contracted workers are on site.
5. Discuss the HSSE Focus topic for the use and storage of hand tools and take special consideration for the use of hand tools while working in close proximity of others.

Reference to Standards/procedures:

- Application of HEMP
- Fountain Incident Management

More information

- Shell Oceania Distribution HSSE Focus Topic on the Use of Hand Tools
- For information regarding this incident: joromi.g.guantero@shell.com (HSSE Manager, Shell New Zealand Distribution)



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SHELL PETROLEUM DEVELOPMENT COMPANY

SAFE HANDLING OF CHEMICALS (SHOC) CARD

Chemical Name	Cement-Standard-Class A	SHOC No.	073
Supplier	Halliburton	Activity	Well Services
Appearance	Odourless, solid	Exposure Category	
Colour	Grey	Main Application	Cementing

COMPOSITION

No	Component	CAS no	Weight (%)	R & S Phrases
1	Portland Cement	65997-15-1	60-100	
2	Crystalline silica quartz	14808-60-7	1-5	

Product Classification

R – Phrases	R 36,38, 49, 34(Irritating to eyes and skin; may cause cancer by inhalation; causes burns)
S – Phrases	S22, 25,22,37,38,39(Avoid contact with skin and eyes; Do not breathe dust; wear suitable gloves; Wear respiratory equipment; wear eyes/face protection)

Primary risks:

Irritation to skin and eyes; may cause skin burns. Potential carcinogen; may cause delayed (chronic) lungs injury.

Activity (Delete where not applicable)	Precautions/ Preventive Measures	Type of hazards/ Exposure	Recovery measures
Transportation Stock Management Use re-use & recycle Disposal	Not applicable	Fire/ Explosion	Not applicable
Transportation Stock Management Use re-use & recycle Disposal Waste Management	Avoid inhalation, use appropriate respirator, fume cupboard.	Inhalation	Remove affected person to fresh air. Provide artificial respiration if not breathing. If breathing is difficult give oxygen. Contact physician.
Transportation Stock Management Use re-use & recycle Disposal Waste Management	Appropriate clothing (use appropriate personal protective equipment). Avoid skin contact.	Skin Contact	Take off all contaminated clothing immediately and wash before re-use. Wash skin immediately with plenty of water. Obtain medical advice if there are persistent symptoms
Transportation Stock Management Use re-use & recycle Disposal Waste Management	Safety spectacles	Eye Contact	Flush eyes with copious amounts of water, separating the eyelids with fingers in so doing. Contamination should be treated immediately Contact physician/optometrist
Transportation Stock Management Use re-use & recycle Disposal Waste Management	Wash hands thoroughly after use	Ingestion	Wash mouth with water. IF VICTIM IS UNCONSCIOUS DO NOT INDUCE VOMITING. Contact the physician if symptoms persist.

Packaging & Handling	50kg multiwalled paper bag; 1500kg polyethylene sacks
Storage	Store in cool, dry, well ventilated location away from water
Incompatibility	Hydrofluoric acid
Cleaning up Spillages/ Release:	
Specific risk	Respirable quartz is a potential carcinogen
PPE required	Appropriate protective equipment (Suitable clothing, gloves, respirators, safety boot, goggles)
Cleaning up	Scoop into sealed container.
Disposal Option	Dispose off in accordance with company waste manage

Physical and Chemical properties @ 20 °C

Boiling Point (°C)	N/A	Melting Point (°C)	N/A
Vapour pressure:	N/A	Density (g/cm³)	N/A
Solubility in water	0.5 (Slight)	Flash Point: (°C)	N/A
pH value	12-4	Auto-ignition temperature (°C)	N/A
Explosion limit (v/v %)	N/A	Exposure Limit (kg/m³)	N/A

For further information please contact: Production Chemistry Department: 21000

Date revised	May 2013	Document No.	SEPCiN-2013-05-00000191	Version	03
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