



Permit number : NR-DC Production Unit-00-0040643
State : Closed
Lifetime expires on 07-10-2020



Mechanical - Medium

Title REPLACE WORN FRONT AND REAR END SEALS ON DBUC CAT G3306 GAS GENERATOR

Description of work: VISUAL INSPECTION OF WORKSITE AND GENERATOR
CARRY OUT PERSONAL ISOLATION OF GENERATOR
REMOVE CONNECTIONS AND ACCESSORIES TO ACCESS SEALS
USE THE OVERHEAD GANTRY TO MOVE ALTERNATOR
REPLACE WORN FRONT AND REAR END SEALS
REINSTALL CONNECTIONS AND ACCESSORIES
ENVIRONMENTAL CONDITIONS (CLEAR & CLEAN)
DE-ISOLATE GENERATOR
COMMISSION

Details

Planned Start Date: 23 Sep 2020

Planned End Date: 06 Oct 2020

Site: UP Nigeria NR-DC Production Unit

Area Authorization NR-DC Production Unit

Work locations: CRUDE EXPORT AND INSTRUMENT MAIN AREA

Equipment description: GEN SET 2[GAS]POWER DISTR FACILITY DBUC (NG.NUN.DIEF1.PG.G120)
DRIVER, GEN SET 2 [GAS]POWER DISTR,DBUC (NG.DIEF1.G120-G120DRV)

Hazardous Substance: HYDROCARBON

Work order number: 22842008

Work Performer: MAINTENANCE AND IA WORKSHOP TEAMS

Vehicles, Equipment and Tools to be used BOAT
MECHANICAL HAND TOOLS
ELECTRICAL TOOLS
FRONT AND REAR END SEALS
KIMTECH RAGS

ICC Requirement Personal

Lead Discipline: Maintenance

Initial Gas test by Authorised Person: No

Continuous Gas Monitoring: No

Influence of nearby activities:

Hazardous Area Classification Zone 2

Initial signatures

Type	Name:	Date:	Dep./Company:
Authorise by Permit Authoriser Medium Risk	HANSON ENOBONG	23 Sep 2020 07:46	Shell Petroleum Development Company



Verify by Permit Verifier	NKAOGU JASPER	22 Sep 2020 17:33	Shell Nigeria Exploration Production Company
Request by Permit Requester	EGUGBO CHRISTOPHER	22 Sep 2020 16:41	Shell Petroleum Development Company

Signature History

Type	Name:	Date:	Dep./Company:	Remarks:
Close by Permit Issuer	Uzozie Victor	28 Sep 2020 09:08	Shell Petroleum Development Company	
Complete by Permit Issuer	Uzozie Victor	28 Sep 2020 09:08	Shell Petroleum Development Company	
Complete by Permit Holder	OHUAKA IKECHUKWU	28 Sep 2020 08:51	SPDC	
Take responsibility of the Holder	OHUAKA IKECHUKWU	28 Sep 2020 08:50	SPDC	
Accept re-issue by Permit Holder	Nwosu Peterclaver	27 Sep 2020 08:52	Shell	

Closed



RA/JHA

Attached to: Permit NR-DC Production Unit-00-0040643

NR-DC Production Unit-00-0040647



Title: REPLACE WORN FRONT AND REAR END SEALS ON DBUC CAT G3306 GAS GENERATOR

Team: KALAFIAI SIMEON, NWOSU PETERCLAVER

Approval:

28 Sep 2020 09:08

Uzozie Victor

Task steps	Hazards	Control measures	Action plan
VISUAL INSPECTION OF WORKSITE AND GENERATOR	Slips & Trips (MOTION)	Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	Permit Hold
	Slippery Surfaces (MOTION)	Remove any Slip hazards in the area, clean up any spills, wear anti-slip safety shoes	Permit Hold
	Slips & Trips (MOTION)	Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	Permit Hold
CARRY OUT PERSONAL ISOLATION OF GENERATOR	Slippery Surfaces (MOTION)	Remove any Slip hazards in the area, clean up any spills, wear anti-slip safety shoes	Permit Hold
	Sharp, abrasive objects (MOTION)	Wear arm protectors	Permit Hold
	Stored Electric Charge (ELECTRICAL)	Work Shall be undertaken by a minimum of two persons	Permit Hold
REMOVE CONNECTIONS AND ACCESSORIES TO ACCESS SEALS	Ignition Source - Internal Combustion Engine [Gas/Petrol] (FIRE AND EXPLOSION)	Electrical work shall only be undertaken by Authorised Electrical person	Permit Hold
	Dropped Objects (HEIGHT)	Internal Combustion engine (spark/petrol/Gas) must not be used inside the Classified Area	Permit Hold
		Tools used at height shall have a lanyard attachment point that does not compromise the tool's effectiveness	Permit Hold
		Check all equipment and structures in the area to ensure that all fastenings, bolting, covers, panels, hatches, removable guardrails etc are properly secured Check all safety securing features are in place (split pins, locking wire, locking washers)	Permit Hold
		Cover gratings with plywood, to prevent dropped objects falling through	Permit Hold
Rotating Equipment (MOTION)		Check safety guards are fitted to rotating shafts and discs	Permit Hold
		Machine to be in view when started	Permit Hold



RA/JHA

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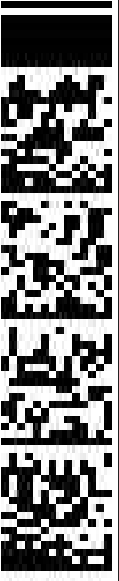
	Pinch Points and Caught Between (MOTION)	Do not operate equipment or machinery without the required machine guards	S	Permit Hold	
	Sharp, abrasive objects (MOTION)	Wear arm protectors	S	Permit Hold	
	Hand Tools - ALL (MOTION)	Flogging spanners are prohibited from use	S	Permit Hold	
		Wear appropriate hand protection suitable for task	S	Permit Hold	
	Fatigue (PEOPLE)	Prior to start of work request work party to self report if they are suffering from fatigue	S	Permit Hold	
	Noise (PEOPLE)	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 Hold	
	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 Hold	
	USE THE OVERHEAD GANTRY TO MOVE ALTERNATOR FOR EASE OF ACCESS	Lifting & Hoisting - All (HEIGHT)	All lifting equipment must be pre-use examined and comply with applicable Regulations	S	Permit Issu
			Keep worksite free of trip hazards (housekeeping)	S	Permit Hold
			Inspect equipment prior to use	S	Permit Issu
		Verify slings are not used to support or be suspended from any abrasive material or sharp edges	S	Permit Hold	
		A Lifting Plan / Method Statement must be in place	S	Permit Hold	
	Dropped Objects (HEIGHT)	Tools used at height shall have a lanyard attachment point that does not compromise the tool's effectiveness	S	Permit Hold	
REPLACE WORN FRONT AND REAR END SEALS	Pinch Points and Caught Between (MOTION)	Use impact resistant gloves	S	Permit Hold	
		Do not operate equipment or machinery without the required machine guards	S	Permit Hold	
	Sharp, abrasive objects (MOTION)	Wear arm protectors	S	Permit Hold	
	Hand Tools - ALL (MOTION)	Flogging spanners are prohibited from use	S	Permit Hold	
		Wear appropriate hand protection suitable for task	S	Permit Hold	



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	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 Issu
REINSTALL CONNECTIONS AND ACCESSORIES	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 Hold
	Hand Tools - ALL (MOTION)	Flogging spanners are prohibited from use	S	Permit Hold
	Slips & Trips (MOTION)	Wear appropriate hand protection suitable for task	S	Permit Hold
ENVIRONMENTAL CONDITIONS AND COMMISSION GENERATOR	Slippery Surfaces (MOTION)	Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Hold
	Slippery Surfaces (MOTION)	Remove any Slip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Hold
	Sharp, abrasive objects (MOTION)	Wear arm protectors	S	Permit Hold
	Rotating Equipment (MOTION)	Check safety guards are fitted to rotating shafts and discs	S	Permit Hold
		Machine to be in view when started	S	Permit Hold
	Hot Surfaces (PEOPLE)	Where possible hot surfaces should be shielded to prevent personal contact	S	Permit Hold
	Noise (PEOPLE)	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 Hold
		Use hearing protection that fits, and reduces exposure of personnel below 85dB(A) for an eight-hour Noise Dose	S	Permit Hold



LEARNING FROM INCIDENTS

AWARENESS ALERT

UI-AW-201573

Upstream International

November 2015

Only for distribution to Shell employees, Shell contractors, Shell operated joint ventures and, with the consent of the Shell Shareholder Representative, to non-Shell operated joint ventures. Refer to the [LFI Legal Guidance*](#) if you wish to send this Alert to other parties.

Twisted Ankle on Skid Deck During Pressure Reinstatement

Target audience for this alert

- Facility Managers
- Offshore Installation Managers
- ISC Team Leads
- Facility Safety Teams

What happened

A work party was operating a nitrogen pumping package located within a bunded area adjacent to the Skid Deck for the purposes of process pressure reinstatement testing. When the pressure reached a required set-point, one of the Operators proceeded to close the discharge valve and open the vent valve to maintain pressure. In order to gain access the Operator walked from the bunded area onto the Skid Deck blow-out hatches and veered to the valve location. On walking across the blow-out hatches the Operator stood on a removable hatch lift point cover causing their left foot to slip and the lift point cover to dislodge which resulted in a sprained ankle.



Why it happened

- The way the bund for the spread had been built created a gap between the deck plate and blow-out hatches.
- The hatch lifting point covers are not secured into position and are coloured bright red as they should be considered "not to be stood on".
- Hatch covers present a hazard if stood on due to their high gloss surface which is slippery when wet and are lift-off items with the potential to move under foot.
- The toolbox talk took place in the Control Room and was not conducted at the actual worksite.
- The Work Activity Checklist (WAC) was not fully utilised during the toolbox talk.

*LFI Legal Guidance- <http://swwww.shell.com/hse/incident/index.html>

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Learnings / Recommendations

- Bunded areas to be built adjacent to skid deck hatches should be assessed by an Area Authority and not introduce any additional hazard due to gaps or changing levels.
- If the bund cannot be built directly adjacent then the uneven surface must be filled to make it as level as practicable.
- Prior to erecting a bund, the worksite must be visited by at least the Area Authority to agree on the best option.
- Specific coaching conversations to be held with the Performing Authorities (PAs) involved and consider the resitting of the Performing Authorities assessment.
- Injury not reported immediately to Platform Medic resulting in delay to assessment and treatment.

Further information

Please refer to FIM No. 1499715 or Keith Blair (Brent Safety Advisor) for further details if required.

*LFI Legal Guidance- <http://sw.shell.com/hse/incident/index.html>

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All operational personnel have participated in the LMRA and are familiar with

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

Name of holder OHUAKA IKECHUKWU
 Company SPDC
 Permit number NR-DC Production Unit-00-0040643
 Date 28 Sep 2020

What kind of work are you going to do?

VISUAL INSPECTION OF WORKSITE AND GENERATOR
 CARRY OUT PERSONAL ISOLATION OF GENERATOR
 REMOVE CONNECTIONS AND ACCESSORIES TO ACCESS SEALS
 USE THE OVERHEAD GANTRY TO MOVE ALTERNATOR
 REPLACE WORN FRONT AND REAR END SEALS
 REINSTALL CONNECTIONS AND ACCESSORIES
 ENVIRONMENTAL CONDITIONS (CLEAR & CLEAN)

Has the Permit Issuer discussed the hazards & controls with the Permit Holder?

Yes ☐ n/a ☐

Has the Permit Holder warned others that may be affected by your work?

Yes ☐ n/a ☐

Is there conflicting work that may affect you?

Yes ☐ n/a ☐

If yes describe hazards and controls below.

Does the work party know the emergency alarm and action required in event of an alarm or accident?

Yes ☐ n/a ☐

Does the work party know the most effective escape route and the location of the nearest muster point?

Yes ☐ n/a ☐

Does the work party know the location of the nearest eyewash station, emergency shower, first aid kit and AED device?

Yes ☐ n/a ☐

Are there additional hazards that need to be controlled? If newly identified hazards are material changes to the permit, contact Permit Issuer!

Hazards

.....

.....

.....

Controls / Recovery Measures

.....

.....

.....

Pictograms for key hazards



ELECTRICAL



FIRE AND EXPLOSION



HEIGHT



MOTION



PEOPLE

Indicate which Life Saving Rules are applicable.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>