



Control of Work : **NR/KC District-01-018498**

State : **Closed**

Mechanical - Medium



Title	INSTALL INJECTOR NOZZLES AND START UP NUN R BLACK START AIR COMPRESSOR
Description of work:	INSTALL INJECTORS AND START UP ATLAS COPCO BLACK START MOBILE AIR COMPRESSOR. INSTALL INJECTOR NOZZLES CONNECT THE AIR FILTERS CONNECT THE FUEL DELIVERY LINES CONNECT BATTERY CONNECT ALL THE ACCESSORIES TIGHTEN ALL LOOSE CONNECTIONS

Details

Planned start date:	06 Feb 2018
Planned end date:	08 Feb 2018
Working hours:	08:30 17:30
Site:	NR/KC District
Work locations:	EXPORT PUMP AND GENERATOR MAIN AREA
Equipment description:	ATLAS COPCO BLACK START AIR COMPRESSOR
Minimum number of persons:	3
Work order number:	NA
Tools to be used:	STANDARD MECHANICAL TOOL BOX MULTI METER ELECTRICAL TOOLBOX
Vehicles/Equipment to be used	NA
ICC Requirement	None
Lead Discipline:	Mechanical
Influence of nearby activities:	
Permit types from questionnaire	Cold Work Mechanical

Signature History

Type	Name:	Date:	Dep./Company:
Close by Permit Issuer	OHUAKA IKECHUKWU	08 Feb 2018 18:06	Shell
Complete by Permit Issuer	OHUAKA IKECHUKWU	08 Feb 2018 18:05	Shell



Complete by Permit Holder	KULUME, CHUKWUMA	08 Feb 2018 17:20	Shell
Accept revalidation by Permit Holder	KULUME, CHUKWUMA	08 Feb 2018 08:16	Shell
Re-issue permit by Permit Issuer	OHUAKA IKECHUKWU	08 Feb 2018 08:15	Shell

Closed



Title: INSTALL INJECTOR NOZZLES AND START UP NUN R BLACK START AIR COMPRESSOR

Team: DURUAKU VINCENT, OGOBIRI SAMSON, OHUAKA IKECHUKWU

Approval:

05 Feb 2018 16:28	DURUAKU VINCENT
06 Feb 2018 09:25	OGOIRI SAMSON
08 Feb 2018 18:06	OHUAKA IKECHUKWU
06 Feb 2018 09:26	OHUAKA IKECHUKWU
06 Feb 2018 09:25	OHUAKA IKECHUKWU

Task steps	Hazards	Control measures		Action party
INSTALL INJECTOR	Exposure to Wildlife bites, stings (PEOPLE)	Exercise caution and proper situational awareness	S	Permit Holder
		First aid kit with epipen available at worksite	P	Permit Holder
		Use insect repellent	S	Permit Holder
		Use of hand gloves, coverall and 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
CONNECT ALL THE ACCESSORIES (AIR LINE, FUEL LINES ETC)	Hand Tools - ALL (MOTION)	Exercise caution	S	Permit Holder
		Proper tool selection and usage	S	Permit Holder
		Use of competent personnel	S	Permit Holder
		Wear appropriate hand protection suitable for task	P	Permit Holder
	Sharp, abrasive objects (MOTION)	Exercise caution	S	Permit Holder
		Wear arm protectors	S	Permit Holder
	Slips & Trips (MOTION)	Proper situational awareness and exercise caution	S	Permit Holder
		Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Holder



CONNECT BATTERY AND FUNCTION TEST COMPRESSOR	Arc Flash (ELECTRICAL)	Exercise caution and work accompanied	S	
		USE OF COMPETENT PERSONNEL	S	
		Wear Arc rated clothing to be rated equal to or higher than the calculated arc flash energy on the equipment label	P	
	Stored Electric Charge (ELECTRICAL)	Jewellery, especially rings on fingers and metal watchstraps, or other conductive materials Shall not be worn Empty pockets of all metal objects	S	Permit Holder
		No Electrical Enclosure, containing live connections, to be left open and unattended	S	Permit Holder
		Only insulated tools Shall be used	S	Permit Holder
		Rubber gloves rated for the electrical voltage present to be available and used when required	S	Permit Holder
		Work Shall be undertaken by a minimum of two persons	S	Permit Holder
	Hand Tools - ALL (MOTION)	proper tool selection and usage	P	Permit Holder
		Use of competent personnel	S	Permit Holder
		Wear appropriate hand protection suitable for task	S	Permit Holder
	Pinch Points and Caught Between (MOTION)	Do not operate equipment or machinery without the required machine guards	S	Permit Holder
		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
	Rotating Equipment (MOTION)	Check safety guards are fitted to rotating shafts and discs	S	Permit Holder
		Exercise caution and proper situational awareness	S	Permit Holder
		Machine to be in view when started	S	Permit Holder
	Sharp, abrasive objects (MOTION)	Exercise caution	S	Permit Holder
		Use cut resistant gloves (cut level 4 or more)	S	Permit Holder
		Wear arm protectors	S	Permit Holder
CARRY OUT HOUSEKEEPING	Slips & Trips (MOTION)	Exercise caution	S	Permit Holder
		Remove any trip hazards in the area, clean up any spills, wear anti-slip safety shoes	S	Permit Holder



RA/JHA

NR/KC District-01-018500



Attached to: Permit NR/KC District-01-018498

	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

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



Rotating Equipment



Sharp, abrasive objects



Slips & Trips



Arc Flash



Stored Electric Charge



Exposure to Wildlife bites, stings



Fatigue

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 KULUME, CHUKWUMA

Company Shell

Permit number NR/KC District-01-018498

Date 08 Feb 2018

What kind of work are you going to do?

INSTALL INJECTORS AND START UP ATLAS COPCO BLACK START MOBILE AIR COMPRESSOR.
INSTALL INJECTOR NOZZLES

	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



LEARNING FROM INCIDENTS NEWSFLASH

UAU-NF-201313-962379 | UA Unconventionals APPALACHIA – Bradford Operations | April 2013

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FUEL LINE TO COMPRESSOR BREAKS OFF.

Target audience for this newsflash

This Alert is intended for all personnel that work with Compression, Operations or Maintenance.

What happened

The 1" steel fuel line that supplies gas from the discharge line to the compressor broke off at a threaded connection on the compressor skid.

Why it happened

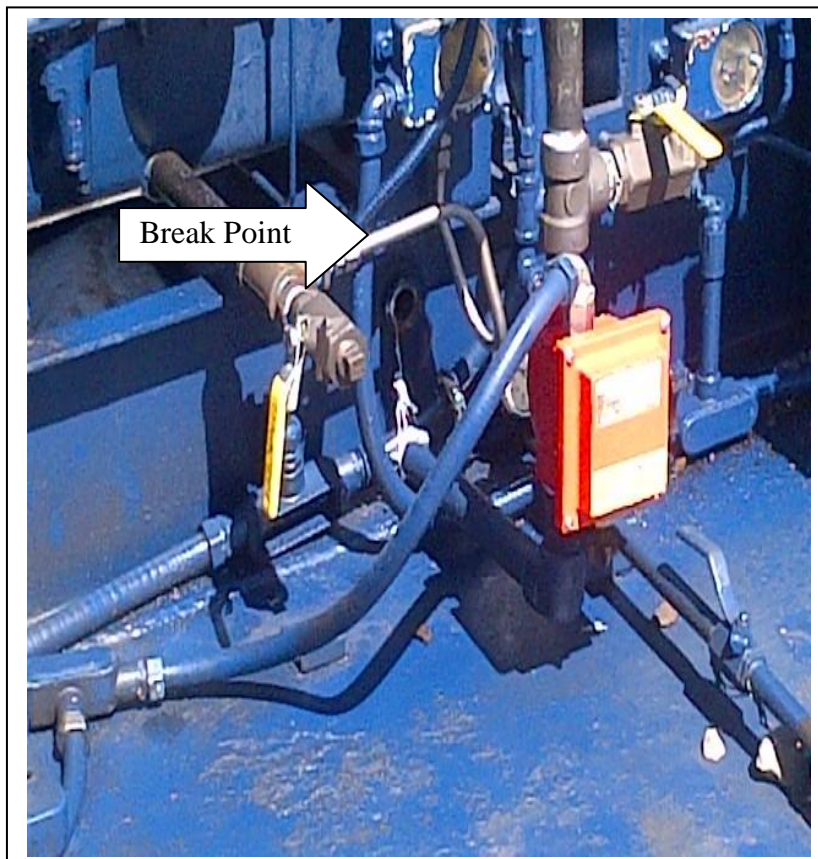
The investigation of this incident is currently ongoing. Additional information will be available when completed.

Suggested toolbox/safety meeting questions

- Have you considered a drill of this type in your ERP.
- How do you ensure that equipment is maintained on your site? Should this include items not covered by a PM schedule.

Further information

For more incident details or more information go to FIM [962379](#).



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

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