

Mine/Quarry Name	File #	Operator	Activity Type	Region	Activity Date
Broadmeadow Sustaining Operations	1	Bechtel/BMA	Investigation	Central	27/03/2012

Vision: Our Industries Free of Safety and Health Incidents

Mine Record Entry

This report forms part of the Mine Record under s68 of the Coal Mining Safety and Health Act 1999. It must be placed in the Mine Record and displayed on Safety Notice Boards.

Note that inspection or audit activities conducted by the Mines Inspectorate are based upon sample techniques. It remains the primary responsibility of Mine Personnel to identify hazards, and risks associated with Operations and ensure those risks are at an acceptable level.

Today the 27th March 2012 a site inspection was carried out by Electrical Inspectors of Mines Paul Sullivan; Neville Atkinson; Principal Investigator Andrew Smith and Mines Inspector of Mines Keith Brennan.

Purpose:

The inspection was to function test the controls of a bucket attached to an Isuzu Truck 210-ROC; bucket PC140 – Model T 16350S manufactured by G M J. The bucket was involved in a High Potential Incident on the 12th March 2012 at a location on the Red Hill Road where Persal employees were erecting a platform designed to support a 415v transformer. During the task a worker sustained severe injuries when he was crushed between the rear of the bucket while attempting to bolt a transformer support beam.

Inspection:

The inspectorate were met at the quarantined location by BMA - HSE Manager 73(2)Irrelevant, Safety Advisor 73(2)Irrelevant, Electrical Supervisor – Bechtel 73(2)Irrelevant, Operator 73(2)Irrelevant, 73(2)Irrelevant Supervisor Brian Persal; Bechtel Trainer Assessor 73(2)Irrelevant and Mine Assist 73(2)Irrelevant who was responsible for a structural audit of the bucket prior to function testing. A JSA had been developed for pre-start and function testing to identify any hazards that had resulted from recent heavy rains and the processes to be followed by the operator and others present at the location.

Following the structural audit by Mine Assist the operator carried out a series of pre-start checks of the truck; following an inspection of the site the decision was made to re-locate the truck by moving forward to a location that appeared to be acceptable for the tests, the re-location did not effect the testing required.

Following the re-location and stabilizing of the truck and pre-start checks the operator carried out a series of function tests at the direction of electrical Inspectors Atkinson and Sullivan. Once the bucket had been function tested and stabilized the inspectorate isolated the truck and entered the bucket to establish the operation and functions of the controls, focusing on the operation of the "dead man controls" the inspectors were able to identify that the controls could be operated inadvertently.

As a result of the possible accidental operation of the controls I produced my identity card and advised Persal; BMA and Bechtel that I will be issuing a Directive under the Coal Mining Safety and Health Act 1999 **s166 Directive to reduce risk** *If an inspector or inspection officer reasonably believes a risk from coal mining operations may reach an unacceptable level, the inspector or officer may give a directive to any person to take stated corrective or preventative action to prevent the risk reaching an unacceptable level.*

The unit is to be isolated and removed from site; I also advised that a Safety News Flash will be issued by the Inspectorate advising all mines of the potential that exists with the operation of the controls of a G M J - MODEL – T 16350S. The incident site was released under **s200 Site not to be interfered with without permission** *A person must not interfere with a place at a coal mine that is the site of a serious accident or high potential incident of a type prescribed by regulation, without the permission of an inspector.*

Close Out Meeting:

A close out meeting was held with SSE ^{49-Sch4 - Personal Information} BMA - HSE Manager ^{73(2)Irrelevant}; Project Manager ^{73(2)Irrelevant} and Electrical Inspectors of Mines Paul Sullivan; Neville Atkinson; Principal Investigator Andrew Smith and Mines Inspector of Mines Keith Brennan.

I advised SSE ^{73(2)Irrelevant} that I will be issuing a Directive under section 166 of the Coal Mining Safety and Health Act 1999 and that the truck and bucket are to be removed from site, the bucket to be isolated at Persal operations in Moranbah until the opportunity to carry out a full investigation into the operation of the dead man function is possible; we also discussed the development of JSAs and work method statements.

Number

1

Directive

Inadvertant operation of EWP controls.

Due Date

27/04/2012

I advised SSE 73(2)Irrelevant that I will be issuing a Directive under section 166 of the Coal Mining Safety and Health Act 1999 and that the truck and bucket are to be removed from site, the bucket to be isolated at Persal operations in Moranbah until the opportunity to carry out a full investigation into the operation of the dead man function is possible. Function tests of the bucket attached to an Isuzu Truck 210-ROC; bucket PC140 – Model T 16350S do not appear to comply with AS/NZS 1418.10 Cranes, hoist and winches Part 10: Mobile elevating work platforms.

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Keith Brennan

**Lead Investigator
Inspector of Mines
Central Region**

Neville Atkinson

**Inspector of Mines
Central Region**

RTI DL RELEASE - DIRM

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Today the 13th March 2012 Principal Investigator Andrew Smith and Inspector of Mines Keith Brennan commenced an investigation at Broadmeadow Sustaining Operations into a High Potential Incident that occurred on Tuesday 12th March 2012 at 2:55pm

The Incident:

At a location on the Red Hill Road, Persal & Co employees were erecting a platform designed to support a 415v transformer. The injured person was working at height in a G M J Bucket (MEWP) Unit Number PC 140, Model Number 16350S that was mounted on an ISUZU truck registered 210-ROC. During the task a worker sustained severe injuries when he was crushed between a cross member and the bucket while attempting to bolt the cross member into place.

Opening Meeting:

We travelled to Broadmeadow administration and briefly discussed the incident with SSE [redacted] and Operational Readiness Manager [redacted]; prior to travelling to Broadmeadow Sustaining Operations we were provided an overview of the incident and time lines for the Emergency Response; helicopter recovery; transport to the Mackay Base Hospital and the known status of operator Mr Nathan Sandy.

Incident Site Inspection:

At the offices of Bechtel located at the Broadmeadow Sustaining Operations we were introduced to BMA Project Manager [redacted] and Bechtel Lead Investigator [redacted]. The incident was discussed at length and a formal document request was made under the *CMSHA s139 - 3 (d) General powers after entering coal mine or other places*; the documents were subsequently forwarded to Safety and Health Mackay. We requested to interview the Persal workers present at the time of the incident, but we were advised the workers were no longer on site; it was agreed that we would interview the workers on Thursday 15th March 2012 at the incident location. I advised that Electrical Inspectors Neville Atkinson and Paul Sullivan would also be attending.

We travelled from Broadmeadow Sustaining Operations administration South along the Red Hill Road to the location of the incident, the incident location was approximately 200 meters West of Red Hill Road, the area had been quarantined. We observed the jibs of two Mobile Elevated Work Platforms (MEWP) adjacent to three concrete power poles; one pole was carrying live 66kv power lines, the two remaining concrete poles had metal support poles, workers at the time of the incident were in the process of installing cross member brackets to support a 415v transformer to the concrete poles.



The area had been quarantined pending our investigation. We accessed the site and commenced observations and a photographic record of the equipment's location. We attempted to gain an understanding of the sequence of events that lead to the incident from the equipment location.

We advised SSE 73(2)Irrelevant BMA Project Manager 73(2)Irrelevant; Bechtel Lead Investigator 73(2)Irrelevant and Operational Readiness Manager 73(2)Irrelevant that the site was to remain quarantined until the 15th March 2012. It was our intention to interview the Persal operators present at the time of the incident at the location and conduct functional testing with an authorised operator for the MEWP who was not involved in the incident.

On Wednesday 14th March 2012 I was advised all but one of the operators were due to fly to Maryborough as their roster cycle was completed; one of the operators also explained to BMA Project Manager 73(2)Irrelevant that he felt emotional and preferred to defer his interview until he returned the following roster cycle. Given the circumstances we agreed to the operators requests and arranged for the interviews to be carried out on Monday 19th March 2012 commencing at 1:00pm. The site was to remain quarantined and security was to maintain a high presence at the site.

Monday 19th March 2012

Heavy rains that had prevailed since Friday 16th March 2012 closed all operations at Broadmeadow Sustaining Operations, the incident location was inaccessible; the interviews with operators present at the incident site on the 13th March 2012 were carried out at BMA offices in Moranbah.

Interviews were conducted with the following personnel.

- Trevor John Clem (Supervisor)
- Anthony Gilbert (Mechanic/Operator)

- Makiha Hatu (Linesman/Rigger)

The interviews were completed on Monday 19th March 2012, however the interview with Paramedic Gavin Hewardine was re-scheduled to the 26th March 2012; function testing and site inspection with Persal operators was also re-scheduled to the 27th March 2012.

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Keith Brennan
Lead Investigator
Inspector of Mines
Central Region

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Pages 7 through 25 redacted for the following reasons:
