

Northern Cape Mine Managers Association

Minutes of Rock Engineering Sub-Committee Meeting

07 April 2017 – Sishen

1. WELCOME

- The meeting was opened and chaired by J. du Toit.
- Everyone was welcomed.

2. COMPLETION OF ATTENDANCE REGISTER

- Attendance register was completed by the attendees. 21 people attended the meeting as per attachment.
- One apology was made. Mr Mzi Zwane

3. MOSH NC

- The new members was introduced to meeting for the role-out of the best practice for prevention of FOG accidents from Chamber of Mines. Mr. Chris Legodi introduced the new FOG team (Amma Boaduo and Shane Durapraj) from the COM.
- COM will send the presentation they wanted to present at the meeting.

4. DISCUSSION OF FALL OF GROUND / UNCONTROLLED GROUND MOVEMENT INCIDENTS

- Sishen 21 February, water from a holding dam came down from plant over the crest of the pit, through a crusher tunnel the water breached the berm that was tipped on the pit crest. A debris-flow ensued and broke drape mesh and snapped 16mm cable. (The drape mesh was not designed for such an event, no injuries occurred as the pit was evacuated due to the adverse weather). It was reported to the inspectorate.
- Mamatwan a circular failure occurred on a dump. It is down to heavy rain and high red clay content of the material.
- A barring incident that was reported to the inspectorate happened at Wesselton Mine (KEM JV during February 2017), the root cause was the tools used was not suited for the excavation.

- A FOG also occurred during February 2017 at Bultfontein Mine (KEM JV) it was also reported to the inspectorate. A dyke cutting across the rim tunnel was supported by steel sets and wooden back spilling and cribbing. The back spilling broke and caused the material to ravel and it caused a void on top of the sets, a large amount of material impacted the sets and caused them to collapse. The event was picked up but reporting was not done adequately. No injuries occurred and the area was vacant at the time of the occurrence.
- (Mamatwan not sure if it is the correct operation?) Excavator operator was excavating close to high wall, rock fell on the excavator, no injury to the operator. Be sure to identify and properly mitigate risk.

5. CONCERNS RAISED TO THE INSPECTORATE

- Berms and crests, what will the inspectorate be looking at, Ramps are the main area of concern? Berms around the pit and on current working benches. The inspectorate will have to a meeting to discuss the issue and also to give more clarity.
- Inspection of berms is a risk due to being close to crests.
- Pre-splits not stemmed but legislation demands that it to be, how to go about obtaining exemption?
- 22.14.1.8 chamber of mines rock mechanics ticket appointments
- 14.1.8 input for mine design, operations and planning
- 14.1.9 SCO legal appointment not yet finalised
- SAMRAS forms are un-editable, need to be filled in by hand, codebook not up to date on web page and will provide copies at next meeting (Marius).

6. BEST PRACTICE REGARDING GROUND CONTROL METHODS / DESIGNS

- Radar, most failures occurs at night Jwaneng and DRC, reaction is not correct due to ~~fatigue or missed due to alarm thresholds being altered to above critical thresholds.~~ Solution is to get remote monitoring done by instrument provider to help identify failures at night (different time zone).

7. TRAINING (ROCK ENGINEERING RELATED)

- Competent A and B given by Prisma or Extract training. Must be done by credited assessor to be able to give valid certificate.

- Sishen was on 3 shift system, 2 working and 1 training. Was subsequently changed trying to get back to that shift configuration.

8. GENERAL

- Meeting layout will be:
 - 2 hours DMR
 - 1 hour COM, MOSH
 - COM, MOSH site visits will be arranged separately.
- DMR will send a list of all mines in NC to COM

9. NEXT MEETING

- The calendar date for the meetings are as follows:
 - 07 July 2017 at Afrisam Ulco
 - 06 October 2017 at Hotazel Manganese Mines
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