**MINES INSPECTORS AND GROSVENOR SENIOR MANAGEMENT**

**09th February 2016 Grosvenor Methane HPI MRE MG 101 C heading HPI**

DNRME

Richard Gouldstone 09/02/16, 10/02/16, 11/02/16, 01/04/16, 06/06/16, 07/06/16, 05/07/16

Shaun Dobson 09/02/16, 10/02/16, 11/02/16, 01/04/16, 13/06/16, 15/12/16

Paul Brown 01/04/16, 05/07/16

Keith Brennan 07/04/16, 15/12/16

Fritz Djukic, 11/02/16, 13/06/16

Noel Towers 06/06/16

Paul Sullivan (Elec) 08/03/16

GROSVENOR

Mr Glen Britton (Executive Head of Underground Operations). 22/08/16

Mr Adam Garde, 15/12/16

Mr Adam Foulstone (SSE) 09/02/16, 10/02/16, 11/02/16, 07/04/16, 06/06/16, 13/06/16

Mr Wayne Bull UMM 09/02/16, 10/02/16, 11/02/16, 01/04/16, 07/04/16, 06/06/16, 07/06/16, 15/12/16

Mr Brad Watson (Operations Manager) 09/02/16, 10/02/16, 11/02/16

Mr Tim Reeves (Production Manager) 05/07/16, 15/12/16

Mr Michael Webber (Ventilation Officer) 15/12/16

Mr Mark Bobeldyk (Ventilation Superintendent/Officer) 09/02/16, 10/02/16, 11/02/16

Mr David Thomasson (TSM) 09/02/16, 10/02/16, 01/04/16, 05/07/16

Mr Malcolm Smyth (Technical Services Superintendent) 06/06/16, 07/06/16

Mr Scott Barker Operations Support Superintendent 11/02/16, 01/0416

Mr Wayne Pate Longwall Superintendent 01/04/16, 05/07/16

Mr Paul Buddery (AAMC Principal Underground Geotechnical Engineer) 06/06/16, 07/06/16

Mr Joe Wills (Acting Development Superintendent), 06/06/16

Mr Justin Joubert (SHE Manager) 06/06/16, 05/07/16

Mr David Lawrence (SHE Manager) 15/12/16

Mr Neal Bryan (Shift Undermanager) 05/07/16

Mr Stuart Sulter (Compliance Superintendent) 05/07/16

Mr Stephen Livingstone-Blevins (Outbye Superintendent) 08/09/16

Mr Lyle Bridgeman Electrical Engineering Manager (EEM) 08/03/16

**SUBSTANDARD CONDITION**

**21ST AND 22ND SEPTEMBER 2016 STRATA FAILURE INVESTIGATION continued**

*Number Substandard Condition or Practice Due Date*

*I Reporting of Hazards and matters to maintain statutory 14/10/2016 compliance.*

*To improve the recording of matters on statutory and conveyor inspection reports relevant to Regulations 308, 309 and Schedule 5. This shall require that the reporting of hazards and controls implemented has been effectively documented and is communicated to all coal mine workers.*

*Number Substandard Condition or Practice Due Date*

 *2 Pre-start dust suppression checks 14/10/2016*

*To ensure that all persons who are responsible for ensuring that the pre-start dust suppression checks as detailed in the work order checklist are carried out to the standard required to mitigate the production of respirable dust. This will require all coal mine workers with obligations for these matters have been trained and deemed competent to ensure these checks are completed correctly in accordance with the TARP metrics for these matters.*

 *Number Substandard Condition or Practice Due Date*

*3 Operational positioning procedures for mitigating exposure to 14/10/2016 respirable dust*

*To develop and implement operator positioning requirements for all coal cutting operational sequences and all reasonably foreseeable variations in these operating sequences. This shall also require that all coal mine workers are trained, assessed, and deemed competent in the application of this procedure.*

**15th DECEMBER 2016 METHANE and HPI’s Dobson and Brennan**

*Number Substandard Condition or Practice Due Date*

 *2 Cable protection on wheeling corners 06/01/2017*

*To develop a documented standard for cable management on wheeling corners.*

 *Number Substandard Condition or Practice Due Date*

 *3 Planning of statutory compliance with mining related activities 06/01/2017 To ensure that planned work activities meet with statutory compliance matters in work activities.*

*This includes communicate of this to statutory officials and their diligence for these matters,*

**HPI versus NRI**

**21ST AND 22ND SEPTEMBER 2016 STRATA FAILURE INVESTIGATION continued Dobson**

**4.0 Close out meetinq**

*We returned to site the following day to conduct a close out meeting and were firstly provided with a number of documents previously requested. These were reviewed and further information was sought.*

*I raised with the SSE information displayed on the TV screen at the turnstiles where this displayed the following information:*

*HPH's YTD 12*

*HPI Free day's YTD 108*

*LEG. HPI Free day's YTD 5*

*This was explained as by the Anglo reporting metrics. I asked for the information relating to the reported HPH's and was given a summary sheet. This will be reviewed and further information may be sought outside of this MRE.*

**15th DECEMBER 2016 METHANE and HPI’s Dobson Brennan**

*1.2 Inspector feedback*

*Inspector Dobson provided feedback on the following issues -*

 *All Form 5a's (Confirmation each month from the Mine on incidents and accidents) were up to date. It was noted that the IC Absent/Failed defences were not identified in any of the Form 5a's. I questioned how this factor was not present in the investigation process. Mr Lawrence said he would look at some of these and provide feedback.*

**Why not Review All and provide updated Form 5 A Reports including full Investigations as required by X date?**

 *8 of the last 9 HPl's were cable damage of various types with variable factors that had influenced these failures. These incidents demonstrate poor attention to good standards with cable management. The mine needs to ensure that I explained that this was one of the Focus areas in the Inspectorates annual plan, and given the recent incidents this needs to be a focus point for all CMW's.*

 *The number of HPl's v Anglo HPH's was discussed as this was raised at the previous inspection and a summary of the HPH's was provided. The mine has a procedure which was currently being reviewed. It was also stated that the definition between incident and hazard is also based on whether a release of energy has occurred and that a critical control has failed. I asked for a copy of the current procedure which was provided.*

*Number of HPI’s v Anglo HPH (High Potential Hazard as per previous Inspection (undated) Procedure currently under review.*

**How convenient**

**Anglo stated “Definition between incident and hazard is also based on whether release of energy has occurred, and critical control has failed.**

**‘Also based”? What other criteria apply.**

**All a smokescreen effort to limit number of HPI’s being reported.**

**Hazards are always present, Roof, Gas, Spon Com, Hydraulic pressure etc etc.**

**Eliminating/Controlling the hazard is what Mandated Principal Hazard Management Plans,**

**Mandated Standard Operating Procedures and other mandated elements of the Mines Safety and Health Management System**

**First Indication of basis for DNRME Interpretation of a Non Reportable Incident “ Critical**

**Control Failed”**

**Also, application of “Reasonably Foreseeable”.**

 **So called “Critical Controls” supposedly in place nothing is then Reasonably Foreseeable**

 **The Inspectorates annual plan was developed from the Chief Inspectors Big 10 items** *. The matters of relevance for the undergrounds were Respirable dust, Strata control, Contractor management, UMM & ERZC forums, Health strategy, and Tyre management.*

*First 3 Grosvenor all over prime candidate.*

*Methane, Gas Management and Spon Com, Emergency preparedness do not rate mention*

**RECOMMENDATIONS BY INSPECTORS**

**08/03/2016**

**Electrical Paul Sullivan**

*1 Cable Management in Development Panels NIA*

*That the mine considers the management practice of ERZ Controllers signing-off on the panels cable management.*

*2 UPEE Management NIA*

*The mine is to review and improve the process of equipment being signed in and out of the underground by both the person taking it and by the CRO.*

**Two recommendations (No or Little Legal Standing).**

**Cable Management in Development Panels**

**Uncertified Portable Electrical Equipment review failed process.**

**No action dates because no legal standing.**

**Was it ever followed up?**

**21ST AND 22ND SEPTEMBER 2016 STRATA FAILURE INVESTIGATION continued**

*Number Recommendation Due Date*

*5 The reporting of Safety incidents and the impact on Safety NIA performance.*

*To document and communicate the Mine Management's interpretation of the use of "Safety penalties" in the monthly bonus scheme. This should leave no doubt in the minds and actions of all*

**INSPECTOR REQUESTS**

**13th June 2016 RESPIRABLE DUST SAMPLING REVIEW REQUEST LW101**

*This Postal Mine Record is to provide Site Senior Executive with formal request to review personal monitoring requirements with respect to the longwall similar exposure group (SEG) at Grosvenor Coal Mine.*

*Until advised otherwise the SSE is required to increase the frequency of personal monitoring of coal mine workers operating in the longwall SEG to at least fortnightly. Both samples taken in this SEG to date have exceeded the regulatory limit.*

*Inspectors Dobson and Djukic state Grosvenor Mine is “required” to as a minimum do Respirable Dust sampling at least fortnightly.*

**NO DIRECTIVE ISSUED just stated as “Required”**

*The Inspectors do acknowledge the risk based process being undertaken by Grosvenor with respect to evaluating exposures to atmospheric contaminants, however based on the initial results obtained from longwall operators, it is important that the level of risk is understood in a timely mater so that controls can be developed and implemented where required. Monitoring requirements for all other SEGs can continue as per the current baseline monitoring program.*

*The fortnightly requirement for personal monitoring of longwall SEG will be reviewed by the Inspectors after three (3) months upon commencement and at this time, if warranted, the mine may be able to divert back to original program.*

**TRAINING**

**15th DECEMBER 2016 METHANE and HPI’s Dobson and Brennan**

*1.6.2 Mains*

*Development had recently recommenced in the Mains section of the mine after a recent Jiffy conveyor extension in 'C' heading. The travelling surfaces from 19 c/t in 'B' heading needed improving, and this was to be actioned. Mining was being undertaken in 'E' heading with an ED 25 Continuous miner driving from 21 c/t to 23 c/t. One car had been cut when we went to the miner however no further mining took place as the ventilation ducting required to be extended. I spoke to the coal mine workers involved in these activities, and was aware that one of these was a clean skin labour hire employee. The cleanskin explained what his requirements were for him being managed through this process.*

*The ERZ Controller was conducting his inspection and we then discussed the cable management standards in this panel as the protection on the wheeling corners was not to the same standard as in the MG102 district. It was evident that the mine did not have a documented standard for this. An SCP was to be issued to ensure these standards are documented and applied consistently.*

**Mains**

**Travel road needs grading from 19c/t.**

**Another Bull Commitment “to fix it.**

**Cleanskin labour hire employee at face.**

**1 car cut then had to advance vent ducting.**

**Cable protection wheeling roads and corners not adequate, not as high as MG102.**

**MANAGEMENT COMMITMENTS**

**10th February 2016**

**2.4 Close out meeting**

*We discussed the findings of the inspection and investigation with the following matters requiring further action:*

*A recommendation was made to implement a change to the strata defect reporting books to include serial numbers to the report book pages. This would then require the ERZ Controllers to reference this serial number in their statutory report when report defects. Mr Bull concurred with this.*

**WAYNE BULL UMM CONCURRED WITH IMPLEMENTING CHANGE TO STRATA DEFECT REPORTING. NO TIME FRAMES MENTIONED.**

**WAS THIS ACTION FOLLOWED UP BY WAYNE BULL OR THE DNRME?**

**7th April 2016 Meyco MP 367 (Foam) and Meyco 364 (Injectable) Brennan**

*Close Out Meeting:-*

*A close out meeting was held with UMM Wayne Bull we discussed the following:-*

 *Sign off of Statutory reports recognising the information requested by Statutory Report Rules - T.A.R.P*

*ERZC Statutory Reports not properly recording TARPS for roof support (again)*

 *Development support plans. UMM Wayne Bull had identified the use of T.A.R.P.s being used for the managers support requirements. The Managers Support Plans provide direction for roof support, T.A.R.P.s are the reactive additional requirements for strata conditions.*

**Wayne Bull has identified an Issue with use of TARPS and Managers support rules.**

**What if anything did he ever do about it?**

**15th DECEMBER 2016 METHANE and HPI’s Dobson and Brennan**

*The 12CM12 Continuous miner was between 27c/t and 26 c/t in TG102. No activities were being undertaken here. Rib conditions were poor on the right hand rib but were being controlled adequately. The Methanometer on the CM displayed 0.37%. Cable management was acceptable. I noted that no tail sprays were installed on the tail of the miner to suppress any dust from the delivery from the centre chain to the car. This had been identified as a key dust suppression control in the development of the recent Recognised Standard for dust control. Mr Bull committed to investigate this.*

**No tail water dust suppression sprays on 12CM Miner.**

 **Another BULL Commitment**

*The bootend of the Jiffy conveyor extension in 'C' heading was examined where good housekeeping was evident and gas monitoring was compliant. The next cut through outbye of this being 20 c/t had a loose bag and pogo separation stopping. These were also evident outbye to 17 c/t. We discussed the standard of temporary segregation stoppings as these were very poor. Mr Bull committed to immediately have a standard documented and replace these to that standard.*

*All segregation stoppings 17 to 20c/t all temporary bag stoppings very poor standard, brattice pogo* **sticks.**

**Bull promised to implement a standard immediately**

**Complete failure of segregation.**

**No alternative intake uncontaminated by Outbye fire etc**

**Should reflect Reg 350 no more than 2 even though Segregation not ventilation intake return**

**ELECTRICAL**

**8th MARCH 2016 Electrical Inspection**

**DNRME**

**Inspector Paul Sullivan**

**GROSVENOR**

**Electrical Engineering Manager (EEM) Mr Lyle Bridgeman**

**Electrical Reporting Structure**

**“Not robust”.**

**No shift sign off?**

**Against the Act and Regulations?**

**Also, another Contractor Management Failure.**

**CRO**

**Not as familiar as stated about methane detector in bypass. 30-minute alarm for detector in bypass**

**Review and improve the process of equipment being signed in and out of the mine by both the person taking it underground and by the CRO.**

 **Uncertified Portable Electrical Equipment system and paperwork not filled out or signed off correctly**

**Recommendation (Little or No Legal Standing).**

**Pit Bottom substation (1st Installed).**

**Problem since Commissioning about possible not isolating of 110 v control in panel. Temporary laminated information sign. Again something planned for Grosvenor (1 month).**

**Carbon copy high voltage documentation suggested only**

**AS/NZS 2290.3 Electrical equipment for coal mines- Maintenance and overhaul/Part 3 Maintenance of gas detecting and monitoring equipment**

 **Opportunity for Improvement or Non-compliance?**

**Electrician work orders.**

 **Inspector only asks does not check system or documents by entry. Is this acceptable post Grasstree Paul McGuire fatality.**

**Trailing Cables**

**Using 25mm trailing cables instead of industry standard 35mm. EEM unable to say whether electrical protection system for fault load have been set correctly**

**Variable Voltage Variable Frequency (VVVF) shuttle cars and the controls that mines are installing to reduce the electrical hazard for their use.**

**VVVF electrical checks and power training for Electricians needed.**

***ADMINISTRATION***

***Electrical Incidents on Grosvenor.***

**There is no Incident Investigation reports for 3 of the 7 incidents**

 **Series of HPI’s for Paquin electrical plugs. Safety Alert by Department**

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