SURFACE DUST MANAGEMENT HIF AUDIT - 17/06/2003 03:48:08 PM

1. BLASTHOLE DRILLING

Point	Standard	Standard Met	Comments
1.1	Blasthole drills are fitted with a dust control device to control dust during drilling.		
1.2	Dust is effectively controlled during drilling of blastholes.		
1.3	Precautions are taken to protect the drill hole grade control sampler from exposure to dust.		
1.4	Each drill is fitted with an enclosed airconditioned cabin to further protect the operator from dust exposure.		
1.5	Drill cabin airconditioner is operable.		
1.6	Airconditioner dust filters are regularly cleaned		
1.7	The dust seals around the door and windows of drill cabins is in good condition.		
1.8	The interior of each drill cabin is in a clean condition.		
1.9	Dust samples taken over the last year to evaluate drill operator exposure to dust are all below the exposure standard.		

2. LOADING AND HAULAGE

Point	Standard	Standard Met	Comments
2.1	Dust is controlled during loading.		
2.2	Dust is controlled on haulage roadways.		
2.3	Each piece of mobile plant is fitted with an enclosed air conditioned cabin to protect the operator from dust exposure.		
2.4	The airconditioner is operable.		
2.5	Airconditioner dust filters are regularly cleaned		
2.6	The dust seals around the door and windows of the cabin are in good condition.		
2.7	The interior of each mobile plant cabin is in a clean condition.		
2.8	Dust samples taken over the last year to evaluate operator exposure to dust are all below the exposure standard.		

3. CRUSHING AND SCREENING

Point	Standard	Standard Met	Comments
3.1	Dust control appliances are fitted at the primary crusher feed hopper.		
3.2	Dust is effectively controlled at the primary crusher feed hopper during dumping.		

3.3	Primary crusher is fitted with dust control appliance.		
3.4	Dust is effectively controlled at the primary crusher.		
3.5	Secondary crusher is fitted with dust control appliance.		
3.6	Dust is effectively controlled at the secondary crusher.		
3.7	Tertiary crusher is fitted with dust control appliance.		
3.8	Dust is effectively controlled at the tertiary crusher.		
3.9	Dust is controlled at the screens.		
3.10	Dust is controlled at conveyor belt transfer points.		
3.11	Dust is controlled on return belt.		
3.12	Dust is controlled at conveyor belt discharge points.		
3.13	Dust is controlled at stockpiles.		
3.14	Dust is controlled at conveyor feed points.		
3.15	Dust is controlled within the stockpile tunnel.		
3.16	Spillage and dust build up on and around the plant and equipment is kept under control.		
3.17	Crusher operators are protected from dust by an enclosed airconditioned cabin.		
3.18	The airconditioner fitted is operable.		
3.19	Airconditioner dust filters are regularly cleaned.		
3.20	The interior of each crusher control cabin is in a clean condition.		
3.21	Crusher control cabins are effectively sealed to prevent dust entry.		
3.22	Dust samples taken over the last year to evaluate crusher operator exposure to dust are all below the exposure standard		

4. MILLING AND PACKAGING

Point	Standard	Standard Met	Comments
4.1	Crusher is fitted with a dust control appliance.		
4.2	Dust is effectively controlled at each crusher.		
4.3	Dust is effectively controlled at each grinder.		
4.4	Dust is controlled at each screen.		
4.5	Dust is controlled at conveyor feed points.		
4.6	Dust is controlled at conveyor belt transfer points.		
4.7	Dust is controlled at bucket elevators.		
4.8	Bagging and packaging machines are connected to a dust extraction system.		
4.9	Dust is effectively controlled at each bagging machine.		
4.10	Dust is effectively controlled at each packaging machine.		
4.11	Dust build up on internal building structures is kept under control.		
4.12	Spillage and dust buildup on and around plant and equipment is kept under control.		
4.13	Dust samples taken over the last year to evaluate operator exposure to dust are all below the exposure standard.		

5. SAMPLE PREPARATION

Point	Standard	Standard Met	Comments
5.1	Jaw crushers are connected to a dust extractor.		
5.2	There is effective dust control during sample crushing.		
5.3	Dust is controlled during sample splitting.		
5.4	Pulverisers are connected to a dust extractor.		
5.5	There is effective dust control during sample pulverising.		
5.6	Each workstation where dust is produced has a dust capture enclosure connected to a dust extractor.		
5.7	At workstations where dust is produced it is effectively extracted.		
5.8	Air pressure in hand held air guns used for cleaning is less than 300 kPa.		
5.9	Compressed air for cleaning is used carefully within the dust capture enclosure so as not to generate dust in the workplace.		
5.10	Compressed air is not used for cleaning where litharge is added or present in the sample.		
5.11	The dust extraction system is maintained in an effective operating condition.		
5.12	Dust samples taken over the last year to evaluate operator exposure to dust are all below the exposure standard.		

6. EXPLORATION DRILLING

Point	Standard	Standard Met	Comments
6.1	Each drill is fitted with a dust control appliance.		
6.2	Dust is effectively controlled during drilling		
6.3	Dust is controlled during sample collection.		
6.4	Drillhole samplers are protected from exposure to dust during collection of samples.		
6.5	Dust samples taken over the last year to evaluate operator exposure to dust are all below the exposure standard.		

7. VENTILATION OFFICER

Point	Standard	Standard Met	Comments
7.1	The manager has appointed a ventilation officer for the site.		
7.2	The district inspector was notified in writing by the manager of the appointment of the ventilation officer.		
7.3	The ventilation officer has training in gravimetric dust sampling procedures.		

7.4	Copies of the following reference material is readily available on site: MSI Act and Regulations Worksafe Australia's National Exposure Standards (NOHSC:1003) AS 2985 and/or AS 3640		
7.5	All records required by MSIA Reg 9.6 are entered in the Mine Ventilation Record Book.		
7.6	Dust samples are taken in accordance with required method.		
7.7	Work environment has been assessed to determine potential dust hazards.		
7.8	There is a program to assess employee exposure to dust.		
7.9	All significantly exposed employees are monitored on a routine basis.		
7.10	Exposure assessment results are reported to all relevant personnel in an effective, timely and documented manner.		
7.11	Employees have been educated on the hazards associated with the exposure to dust.		
7.12	Workplace improvements have been made in response to dust exposure assessment results.		

8. STOCKPILING AND SHIPLOADING

Point	Standard	Standard Met	Comments
8.1	Dust is controlled during train unloading		
8.2	Dust is controlled on stockpile roadways		
8.3	Dust is controlled at the stockpile stacker.		
8.4	There is a means available to control dust off stockpiles during strong winds.		
8.5	Dust is controlled at the stockpile reclaimer.		
8.6	Dust is controlled at the stockpile draw chutes in the loadout tunnel.		
8.7	Dust is controlled within the stockpile loadout tunnel.		
8.8	Dust is controlled at conveyor belt transfer points.		
8.9	Dust is controlled at screens		
8.10	Dust is controlled at the shiploader.		
8.11	Spillage and dust build-up on and around plant and equipment is kept under control.		
8.12	Operators are protected from dust by an enclosed airconditioned cabin.		
8.13	Operator control cabins are effectively sealed to prevent dust entry.		
8.14	The interior of each operator control cabin is in a clean condition.		
8.15	The operator control cabin air conditioner is operable.		

8.16	Air conditioner dust filters are regularly cleaned.		
8.17	Dust samples taken over the last year to evaluate crusher operator exposure to dust are all below the exposure standard.		

9. PERSONAL PROTECTIVE EQUIPMENT

Point	Standard	Standard Met	Comments
9.1	A site wide risk assessment has established the tasks which require respiratory protection devices to be used.		
9.2	There is a program to select the appropriate respiratory protection for a person.		
9.3	Respiratory protection devices are freely available and employees are aware of where and how to obtain the correct device.		
9.4	Employees are fit tested for the type of respirator issued to them.		
9.5	Employees are trained in the use of the respirator provided.		
9.6	There is a maintenance program for non disposable respiratory protection.		
9.7	Respirators are cleaned, maintained and stored as specified in the maintenance program.		

10. ABRASIVE BLASTING

Point	Standard	Standard Met	Comments
10.1	Material used for abrasive blasting contains less than 5% silica by weight.		
10.2	Material used for abrasive blasting contains less than 1% of any one of the following - arsenic, beryllium, lead, cadmium, nickel, antimony, cobalt, chromium or tin.		
10.3	Material used for abrasive blasting contains no radioactive substance as defined in the Radiation Safety Act 1975.		
10.4	Recycled dry abrasive blasting material is treated to remove respirable dust.		
10.5	The person operating the abrasive blasting machine wears an airline respirator of the hood or helmet type.		