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INVESTIGATION REPORT

CONVEYOR M22 BELT FIRE 12 FEBRUARY 2001

75 300

David Eves
Compliance and Safety Manager

8 March 2001

INVESTIGATION REPORT M22 CONVEYOR FIRE 12 FEBRUARY 2001

1. Summary of the Incident

On Monday 12 February coal was delivered to Energy Brix via the M20's Conveyors from 1900 hours to 2030 hours with operations appearing normal. At 2030 hours coal delivery was switched to Hazelwood and the M20's were shut down at 2100 hours. At 2229 hours Mr P. Shaw, a Bramble's employee reported smoke from the NE corner of the Mine to the Mine control centre. Supervisor Peter Sheridan inspected and found M22 Conveyor to be on fire. The CFA and Mine Management were immediately called.

The CFA, assisted by mine personnel fought the fire. The fire was brought under control at 2330 hours. The fire destroyed approximately 400 metres of conveyor belt, conveyor idlers and electrical cables and junction boxes.

There were no injuries.

2. Log of Events

- 19:00 Coal loading to Energy Brix via M20's
- 20:30 Coal Loading ceased
- 21:00 Conveyor stopped by control centre
- 22:29 Smoke reported to control centre by Brambles
- 22:30 Supervisor Peter Sheridan went to investigate
- 22:35 Peter Sheridan found M22 Conveyor on fire
- 22:36 Control Centre called CFA
- 22:37 Control Centre despatched pilot vehicle to gate to meet CFA
- 22:45 Two crew from D9 requested to attend scene
- 22:50 Deanmac opened swing gate for CFA
- 22:51 CFA at fire scene
- 22:56 23:10 Control Centre called Steve Rieniets, Ian Quail, Romeo Prezioso, Stuart Stiles (Rieniets and Stiles attended scene)
- 23:30 Fire controlled

Investigation carried out Tuesday 13 by David Eves who informed the Mine's Inspector of the Incident.

3. Findings

- 1. The fire destroyed a total of 400 metres of M22 conveyor belt along with idlers, electrical cables and junction boxes. The cost of repair was approximately \$150,000.
- 2. The most probable cause of the fire was a bearing failure on a return idler
- 3. Access along the conveyor was difficult because of the rough ground and vegetation
- 4. There was excess build up of spill coal under the conveyor
- 5. No evidence of foul play was found

6. There was a failure in the Mine's Management System as the conveyors were operated in a hazardous condition and the system did not prevent or detect this condition.

4. Recommendations

- 1. Plant 'owned' by each of the five rosters is to be reviewed and agreement reached that each of the rosters is to complete the required inspection, cleaning and lubrication duties to schedule. The schedule requires ALL of the plant to be covered every month. Shift Managers may achieve this by scheduling one third of the work each time they are rostered on. This will even out the workload. See Attachment No. 7 and 9. Reports on work done are to be included in a modified Shift Managers Report. Model Work Order has been raised in Passport (29044727) which will both trigger and track the work.
- 2. The monthly safety inspection program currently carried Mine Management will be extended to include the inspection of conveyors.
- 3. Conveyors should be patrolled within one hour of a shutdown. The Fire Instructions have been amended and Shift Managers made aware of the instruction. The March toolbox topic will cover this requirement. See Attachment No. 10 and 11.
- 4. The mine must improve its performance in detecting and replacing defective idlers before they fail and catch on fire. The Shift Leaders must ensure that operating conveyors are patrolled regularly such that defective idlers are detected and replaced before they become a fire hazard. See Attachment No. 7.
- 5. Adequate access along all of its conveyors must be provided to allow for inspection and maintenance of the plant. Shift Leaders must ensure access is adequate by arranging for corrective work to be carried out.

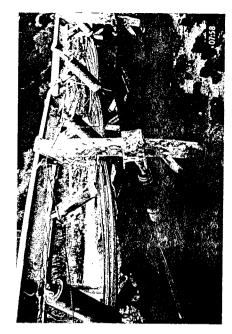
5. Attachments

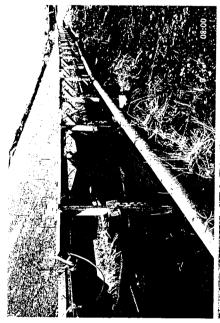
- 1. Photographs of Fire Scene
- 2. Emergency Response Check Sheet
- 3. Supervisor Preliminary Report of Incident
- 4. Shift Managers Report
- 5. Machine Driver Report
- 6. Control Centre Log
- 7. 2x12 Roster Plant Responsibilities
- 8. CFA Fire Incident Report
- 9. Model Work Order for the inspection and checking of Conveyors
- 10. Extract from Fire Instructions Regarding: Inspection of Conveyors after shutdown
- 11. AS 1885 Incident Report

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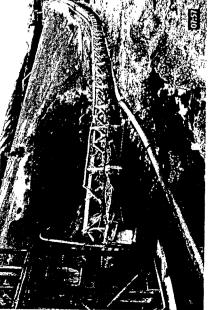
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C.C. EMERGENCY RESPONSE CHECK SHEET 227	MIONORY SHIFT: A B C D E D (N)	TELEPHONE OR RADIO RESPONSE No. Yes $0408 337 684 \qquad ($	1. NAME OF PERSON REPORTING ACCIDENT $PSHMU$ (Brambles) 22-29 HRS,	2. LOCATION AND TYPE OF INCIDENT Smoke coming out of North East Coing Olcut Possible 31/Pare	YES () NO ()		EET THE GATE A SWINGING () $22-36$	COMMENTS: Forman sent to investigate (2230 Hrs) Report to 3/1.P Mobile Ph. (Cichan) at (22-32 HR) Forman reported Fire at M 22 conveyor H/End. (22-35 HR) (C.F.H. Required.) Dearmac-Kulie react of Fire 12-42 HR)
OOD MINE S.	DATE: 12/02/0/	REPORTED BY PHONE 5999; 3533 EMERGENCY RADIO BUTTON. REPORTED BY RADIO.	1. NAME OF PERSON REPORTING ACC	2. LOCATION AND TYPE OF INCIDENT	3. DISPATCH MINE FIRST AIDERS AS REQUIRED	AND REQUEST RELEVANT EMERGENCY SI GIVING ALL IMPORTANT DETAILS	8. ARRANGE FOR PILOT VEHICLE TO MEET THE EMERGENCY AGENCY AT THE APPROPRIATE GATE	COMMENTS: Faeran sent to mestigiste (2) Ereman reported fire at M22 convence H

ATT. No 3

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The emergency call came in on 5999 from a R.Shaw tho works for Brambles at 2229 he reported that a could see smoke coming out of the open out rear D.B.C. Peter Sheridan was sent to investigate and found that M22 conveyor was on fire. The C.F.H were called at 2236 stere Rienets was called at 2236 stere Rienets was called at 2236 also oneo Prezioso was called at 2257 also oneo Prezioso was called at 2257 also also also alled in Cayo from beltline to inspect conveyor belt or damage.

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C.L. D.: L. 12. 2011 of 2050 Steve Rieniets was called at 2256 an Quail was called at 2257 omeo Prezroso Was called at 2300 fuart stiles alled in Eago from beltline to inspect conveyor belt or damage ause of fire still unknow at this stage. Further nuestigation require on dayshift.

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ATT. No. 7

DATE: 26/2/96

NOTE TO: SHIFT MANAGERS

SHIFT SUPERVISORS

FROM:

LINDSAY FAWCETT, PEHPCM

COPY TO:

STEVE RIENIETS, IAN QUAIL, BILL ESTRADA

RE:

PLANT RESPONSIBILITIES

At the recent Supervisors meeting is was agreed that the following plant allocations would exist for each roster. The reason for plant ownership is to ensure that; Routines, Mechanical, Electrical and Operator Inspections and Safety Device Testing are completed to Schedule. Also, Cleaning of plant, Cribrooms, Drivers and Operators Cabins is done on a regular basis.

NOTE: - THIS DOES NOT DETRACT FROM THE SHIFTLY CLEANING AND INSPECTION DUTIES OF OPERATORS.

PLANT OWNER	PLANT
A ROSTER -	D11,M225,M220,M166,
KEVIN LOVETT	M53,M54,M55,M56,M57,
	M58,M59
B ROSTER -	D9,M245,M241,M240,
GARY RHODES	M167,M161,M162,M163,
	7 T/POINT
C ROSTER-	D25,M265,M262,M261,
ROD FLEMING	M260,M168,M21,M22,
	M24,M51
D ROSTER -	S94,896,M170's,M180's,
TREVOR BERRYMAN	M190's
EROSTER -	D10,TS2,M216,M211,
PETER COAD	M210,M165,M209

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Facility: HWM HAZELWOOD MINE Service Provider : Contract No : Contract Description:		Work Order Package 29044727 01
Project No.: W/O Type: MO Priority: 0 W/O Dsp Planner: DEVES EVES W/O Title : INSPECT FOR COAL SPIL IDLERS ON ALL CONVEY	D L AND DEFECTIVE ORS	Rpt : TIPMC11 Date: 07/03/01
W/O Task Title: INSPECT FOR COAL SPIL IDLERS ON THE M20'S Written To : M21, M22 AND M24 CONV Task Dspln : Y Duration (hrs):		Task 01 of 001 Status: APPROVED Page: 1
Work Order Task Written Against		
Equipment : Co Equip. Tag: Job Type : IN	it : OPS mponent: UTC M22 AND M24 CONVE	Sys/Cls: : YORS
Work Order Task Instructions		
Each month all conveyors in the mine excessive coal spill and for defective is to be arranged to reduce the risk. The results of the inspections are to Managers Log at the end of each shift.	e idlers and corr of fire on all co be entered in th	ective action nvevors.
Task Resource Requirement (Internal Labour	<u>r)</u>	
Description of Resource NON CHARGEABLE RESOURCE	<u>-</u>	Hours Per Total Resource Hours 4.00 8.00 Total 8.00
Contract Agreement (For Resources and Date.	s)	
Hazelwood Power	l Se:	rvice Provider
Task Auth :	 Signed :	
Name (Print):	 Name (Print):	
Date :	Date:	
Phone :	Phone :	
QC Requirements/Comments		
NO QC REQUIREMENTS FOR THE WORK ORI	DER TASK	

Liability Period commences today.

SIGNED FOR THE ENGINEER:

Facility: HWM HAZELWOOD MINE Service Provider :		Work Order Package
Contract No :	1	Work Order Tackage
Contract Description:		29044727 01
Project No.:		
W/O Type: MO Priority: 0 W/O Dsp	ln : Y	Rpt : TIPMC11
Planner: DEVES EVES	D	Date: 07/03/01
W/O Title : INSPECT FOR COAL SPIL		
IDLERS ON ALL CONVEY	ORS	i
W/O Task Title: INSPECT FOR COAL SPILE	L AND DEFECTIVE	
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Written To : M21, M22 AND M24 CONV Task Dspln : Y Duration (hrs):	EYORS	Status: APPROVED
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and Variation Orders is complete with the exception of the items listed and that the Defects

ARE THERE OUTSTANDING MINOR DEFECTS TO BE MADE GOOD Y/N:

_____ DATE: / /



Fire Instructions - Mine Current

3 ORGANISATIONAL RESPONSIBILITIES IN RELATION TO FIRE PREVENTION

3.1 Director Of Mining

The Director Mining is responsible for all Fire protection activities for the Mine and defined surrounds.

3.2 Production Manager Mining Operations

The Production Manager is responsible to the Director of Mining for:

- the detailed implementation of these instructions
- the management of the Fire Service Group

3.3 Services Coordinator

The Services Coordinator is responsible to the Production Manager for the operation and maintenance of the Fire protection procedures, installations and related services in the Mine. This includes arranging the pumping and operation of major control valves to ensure adequate water supply and pressure and to direct or ensure:

- Fire fighting operations.
- Reporting all serious Fires and Fire risk to the Production Manager
- Inspection of all Fire fighting equipment
- Training of all personnel in Fire fighting methods
- Approval/recording the access of vehicles and plant to coal surfaces on Fire alert days
- Declaration of Fire alert after consultation with Director of Mining or Production Manager
- Issuing Hot Works Permits

3.4 Compliance and Safety Manager

The Compliance and Safety Manager shall ensure that all Mine Personnel and the Main Contractors to the Mine are given training in these procedures annually.

3.5 Shift Production Manager

This officer is responsible for:

- Fire fighting until such time as the Fire Service Officer or Fire Service Availability Officer takes control.
- Reporting all Fires to the Fire Service Officer or the Fire Service Supervisor on duty.
- Ensuring that all unmanned plant is inspected at least twice per shift and non-operating conveyors once per shift. Conveyors which are shut down after a period of operation should be patrolled within one hour of the shutdown.
- Ensuring that all locations where welding and/or burning have taken place are inspected before the end of the shift, and then at least twice per shift for the following shift.
- The duties and responsibilities of the Fire Service Officer after normal hours (0700 to 1742) until the Fire Service Officer, or his deputy, attends and takes control of the situation

Authorised by: David Eves

Doc Group 03 Health & Safety

Page: 5 of 16

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ATT. NO. 11

WORKPLACE INJURY AND DISEASE RECORDING FORM

Reference number MAZELWSSO MINE-FEBCI

Personal details of the injured worker	14 Description of
1. Surname No INSURIES	14. Description of occurrence of injury or disease:
Given names —	• In which part of the workplace did the injury or disease exposure occur?
2. Sex (M or F) -	(e.g. machine shop, freezer room, No. 2 mine)
	M22 CONVETOR
3. Date of birth / /	NTH RAST CRN OF MINE.
Basis of employment	• What was the worker doing at the time? (e.g. driving a fork lift truck, lifting bags of cement, typing
4. Starting time: 0600 - 1159 hours	
² 1200 – 1559 hours	
3 1600 – 0559 hours	
5. Shift arrangement: 1 Fixed, standard or flexible hours	
² Rotating shift	What happened unexpectedly?
	Include the name of any particular chemical product
	process or equipment involved. (e.g. brakes failed on fork lift truck, slipped on wet floor,
more than 8 hours (excluding overtime)	scall olding collapsed, arm started hurting while to single
Job details	on a word processor)
7. Description of occupation or job title	A RETURN IDLER BEARING
	FAILED 4 OUERHEATED.
8. Main tasks performed	THE HOT BRARING CAUSED SPILL COAL TO
- partitioned	CATCHON FIRE WHICH
	IN TURN SPREAD TO
	THE RUBBER CONVEYOR
9. Training provided: I Induction training	BELT
	• How exactly was d
Task specific training Both of the above	How exactly was the injury or disease sustained? Include the name of any chemical, product, process or equipment involved.
Neither of the above	equipment involvea.
	(e.g. hit head on cabin of fork lift truck, lacerated knee when landing on ground, arm hurt after long period of
Details of the injury or disease	typing)
10. Date injury occurred Day Month Year	
or disease reported $12/02/01$	
11. Time injury occurred 2,229 (24 hour clock format)	
12. Nature of injury or disease	
EXTENSIVE FIRE ON M22	
CONVETOR HAZELLISOD	-
M, NE Code	
	Code
13. Bodily location of injury or disease	Mechanism of injury
	Breakdown agency
	Agency of injury
Code	

Lost-time injury/disease

Additional questions to be answered for cases which result in a fatality or permanent disability, or where there was time lost from work of one or more days/shifts. These questions should be completed as soon as possible after the injury or disease is reported.

15.	Employee's	
	preferred language	
16.	Type of employment:	Full-time permanent Full-time casual Part-time permanent Part-time casual
17.	Type of employee:	
- / •	r	
	Wage/salary earner:	11 Trainee 12 Outworker 13 Apprentice
	(Note:	Pieceworker
	most employees will fall into this category)	(other than Outworkers) 15 Other
	Self-employed:	20 (including contractors and sub-contractors)
	Unpaid worker:	Work experience Other
	Worker's experience in task being carried out when injury or disease occurred	Years Months
19.	Proportion of shift worked:	25% or less $ \begin{array}{c c} 2 & 25\% \text{ or less} \\ 2 & 26\% - 50\% \\ 3 & 51\% - 75\% \\ 4 & 76\% - 100\% \\ 5 & \text{Overtime} \end{array} $
Detai	ls of person completing this	form
Name	DAUID EUR	ES
Positi	on Compliances	SAFETT MGR
Signa	ture Do	
Date	23/2/01	

Outcome of injury/disease

Questions 20 – 24 are about information that is not available at the time of the report of injury or disease. These questions should be answered as soon as the information becomes available. For some occurrences, such as where there was no time lost, some of these questions will not be relevant.

20	. Rehabilitation:	Requi	red		
		of reha	abilitati Mon /	mencement ion program th Year	n
		2 Not re	quired		
21	. Was the injury or	disease: 1	☐ Fa	tal on-fatal	
22	Preventive action INUESTI DETAIL LISTING	CATION ER RE	1 e	T POE	04050
	ATT 7	· T/41.	SE	0000	70,
				UNA PPI	
	(Tick one or more	boxes as app	propria	te)	
	Change to induction Change to ongoing Equipment/machin Change to work pr Change to work en Equipment/machin Other job redesign Other preventive ac	training tery modificate occdures vironment ery maintenate tion		Proposed 11	Taken 12
23.	Date of resumption of work on:		Day .	Month Ye	ar.
	Short-term alternation		/	/	
	Permanent alternati	ve duties		/	
	Normal duties			/	=
	(Enter each date wh	nen applicabi	le)		
24.	Total number of wo (Should be complete worker has resumed	ed only when	the		