XX	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/Da	ay	Approved by:		State Covernment Department of Sustainability
CFA	Incident No (s):				Incident	t Name:	Latro	be Valley Coal I	Mine Fire	Victoria and Environment

# INCIDENT SHIFT PLAN – 24hr PLAN 2000hrs14/02/14 to 2000hrs 15/02/14

	CONTENTS	PAGE
1	Incident Shift Plan	
	- Situation	2
	Mission	4
	Execution (Sector Deployment Orders)	4
	Administration & Logistics	6
	Command & Communications (IMT)	7
	Command & Communications (Fireground)	7
	Command & Communications (Mobile Phone)	8
	<ul> <li>IMS Structure</li> </ul>	9
	• <b>S</b> afety	10
2	Medical / Evacuation Plans	11
3	Weather	12
4	Shift Debrief / Feedback Form	15
5	Strategies for Driving in Open Cut Mines	16
6	Public Information Planning Sheet	17
7	SMEACS Briefing 13/2/2014	18
8	Process on handling CO	24
9	CO Fire Ground Safety	25
10	Map – Overview	Attachment 1

INCIDENT CONTROLLER	Nick Brown I/C
SIGNATURE	
DATE	14/02/2014

### **Key Messages:**

- IMT is in control of Yallourn and Hazelwood mines
- 24hr ISP planning
- These fires are of State significance
- Potential to escalate over next two days to aid in achievable objectives
- Carbon Monoxide is critical and must be monitored at all times
- Crew Safety is paramount
- No tag no exit
- No smoking direction
- Appliances shall not be released from the Open Cut Mine until fully inspected and cleared by a DMO.

CFA	<b>Incident Details</b> Incident No (s):	Plan No:	Date:	14/2/2014	Shift: Inciden	Night/Date:	, 	Approved by: be Valley Coal I		State Covernment of Victoria and Environment				
	SITUATION													
Curren	nt Situation:													

Hazelwood Mine Division

Fire continues to burn along 3 levels of batter on the Northern, Eastern and Southern sides of the mine for an estimated area of 3km. There is a large quantity of overburden with vegetation fires burning on the floor of the mine, approximately 154ha. Note: these are all non-working sections of the mine. Wet lines have been put in place between the active fire area and the working sections of the mine to prevent the spread of the fire. Contingency plans have been made for fall back lines in the event of increased fire behaviour or loss of control.

Sectors now known as Alpha - Northern Batters, Bravo - North Eastern Batters, Charlie - South Eastern Batters, Delta - Upper Southern Batters & Lower Southern Batters & Mine Floor.

MFB UAV has gathered intelligence using thermal imaging capability. Survey of both Northern and Southern Batters now complete. This has provided valuable intelligence identifying key risks being impacted by fire.

## Alpha Sector Northern Batters:

Crews continuing to work on mineral earthing the area in the SW corner at ground level. Power poles have now been cleared and stabilised with sand. Mine crews will continue to monitor this area. Vegetation on the Northern Batters is being progressively pull down and chipped with waste being removed from site. Work is also continuing on the 300mm water pipe into the NE corner. Fire Service Crews operating in the NE corner (305 Ramp) have completed a full batter pass (approx. 500m suppression) and will be moving to the next level batter this afternoon. Two mineral earth breaks have been established around the M690 Conveyor to allow fire crews to gain access for fire suppression.

4000-24000L/min monitor has been deployed to the Northern Batters.

Teleboom operating in Northern Sector and making good progress.

800m main is currently being layed to boost water supply & we anticipate it will be at the eastern most corner of Alpha by 1600hrs. Approx 600m has currently been welded & needs to be dragged into place.

Bravo Sector North Eastern Batters

T10 corner adjacent to Charlie sector, trees are being removed by excavators due to surface growth & active fire within subsurface growth and coal mixture. Crews are being withdrawn while this is being under taken. Currently being layed is an 8inch layflat hose above ground main.

Charlie Sector South Eastern Batters:

Currently one Teleboom in operation making good progress, as well as ring mains with ground monitors.

Delta Sector Southern Batters & mine floor:

Telebooms are having significant impact and have made approximately 700 metres progress in the South Ramp area (South corner of the section) in the last 24 hours.

A North / South Mineral earth break in the over burden and wet lines forming fall back line between Working Face have been completed. Dozer work within the overburden dump is almost complete with blacking out of hotspots still being undertaken. The purpose of which is to protect the Eastern working face of the mine & conveyors

There is currently no fire fighting activity in the Working Face Sector. Ground monitors are in place on the Northern side to provide fall back line.

be Valley	y Coal Mine ISP1402	14 24hr.doc									FSC.0006.00
200	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/D	ay	Approved by:	Nick Brown	Sta	Department of Sustainability
CFA	Incident No (s):				Incident	Name:	Latro	be Valley Coal	Mine Fire		ictoria and Environme
Yallou	rn Mine Divisior	n									
extenc Sit Rep require	is fire burning in ded approximat das of 1430hrs ed. This is being JAV is on scene	ely 30 hectar from Yallorn g actioned.	es onto Div Co	o the dis mm sugg	used m gests th	nine flo nat pro	oor. 7 gres	This area is s has slowe	inaccessib	le due	to terrain.
Activit	y continues to f	ocus on supp	oressio	n activiti	es and	maint	ainin	g current o	containme	nt line	S.
Two (2	2) Sectors are cu	urrently oper	ating								
Not re	East Field Extension sourced by La T currently being	robe Valley (							al of the m	ine ad	jacent to this
Mine S	Township Batto Services working nderway in this	g North West		-	-			-		k. Activ	e firefighting
A Thirc	d Division being	introduced -	- HAZN	1AT Divis	ion to	be op	eratio	onal. DivCo	om Andrev	ν Ο'Coι	nnell.
- Cold, being a - Fema	l Factors: warm & hot zo applied based o ale personnel w	on location of ho may be pr	fire cr regnan	ews. t & heav	y smok	-	-				
- It is ir atmos Observ	ions operating of mperative that pheric monitori vation Station fo humidity and hi	crew leaders ing crew via r or assessmer	mainta adio (2 it and c	ain moni 19). All c clearance	toring, crews r e for we	eturni ork.	ng fr	om work n	eed to go	throug	-
- Loss ( - Fire s	of infrastructure pread into the agement of veh	e to provide operating co	power al face.	to onsite (both m	e pump lines)	s. (Ha	zelwo				
	Loss currently is vood - Some da		aviously		ad to o	nsita		r lines and	numping	station	s Powerlings
		inage has pro				•					

have been partially restored. Damage has also occurred to the conveyor to Energy Bricks Yallourn – No recorded asset loss

Assets and Values at Risk: Onsite electrical power lines and pumping equipment Other critical mine control facilities

Water mains are currently being extended.

<b>CFA</b>	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/D	-	Approved by:	Nick Brown	State Covernment V Department of Sustainability Victoria and Environmen
CFA	Incident No (s):				Incident	t Name:	Latro	be Valley Coal	Mine Fire	
					MISS	SION				
	(OBJECTIVE	for Incident/Sec	tion/Divis	ion/Sector	Specific,	Measurat	ole, <u>A</u> ch	ievable, <u>R</u> elev	ant to policy, <u>T</u>	ime framed)
INCID	ENT OBJECTIVE	(S):								
Hazely Contair Establis Control Asset p and 66 Protect Protect Extingu Contair Maintai Control	in fires burning on sh lines to prevent and extinguish sportection of powe KV Lines on North ion of West side it ion of Morwell Sul clean water pum ishment of batter	the batters of further spread out fires and to r and critical n side of mine f mine from D o-Station ping station s hin the Yallou es and contin res and flare	n the co ad of th flare up infrastr e Diffield f urn mine ue blac ups as f	bal face e fire into s as they ucture, pu ire ire e perimeto king out v chey occu	o currer occur umping er vithin c	nt coal r units, c	remov coal p	al area roduction ir	-	dges and conveyors etc.
Prioritie App Focu Con	-	priorities to set y and fatigue. secure any cur rapidly and agg	strategic rent fires gressively	direction.	veloped			the followin	-	e Incident Control

• Ensure that the provision of public information, and access to it, remains timely and effective (utilise good fire ground intelligence as needed).

# **EXECUTION – DAY SHIFT SECTOR DEPLOYMENT ORDERS**

	INCIDENT RESOURCE SUMMARY													
Element	Personnel	Tanker	SOU	Vehicle	Plant	Aircraft	Notes							
Fireline (Divisions/Sectors)	175	16		41	2									
Incident Management Team	20													
Ambulance / Health Monitoring	9													
Total:	204													

Division: Hazelwood	Division: Hazelwood				Command		Fireground	Fallback	Other
Divisional Commander: P A	0429 226 78	84		21	19	6			
Resource ID	Leader	Shift Times	Crew	Tanker	SOU	OU Vehicle Plant		No	tes
Mt Martha Staging		0700-1900	5			1			
Hazmat Detection Crew		0700-1900	2			2			
		Total:	7			3			

Sector: Northern Batto	ers	Phone		Trunk	Com	Command		eground	Fallback	Other
Sector Commander:										
Resource ID	Leader	Shift Times	Crew	Tanker	SOU	Vehi	cle	Plant	No	tes
Sector Northern Batters MFB P/T		0700-1900	20	5		1				
		Total:	20							
Strategies:										
Incident Control: Prevent fi	re spread into working coa	face								
<ul> <li>Assets and Values Protection</li> </ul>	on: Power Lines and water	pumps								
Progress / Work to do:										
<ul> <li>Establish new water main t</li> </ul>	o provide permanent water	r. Commenced b	ouild in	Northern Sect	or					
<ul> <li>Evaluate threat to slot bunk</li> </ul>	ker									
<ul> <li>Asset protection of thickened</li> </ul>	ed ash line, mine crews to o	construct miner	al earth	break						
Other Instructions:										
Changeover with:										
Other:										

200	Incloent Defails Plan No: Da		Date	e: 14/2/2014	Shift	: Nigh	t/Day	Appr	roved by	r: Nick	Brow	/n	State Government	Department of Sustainability
CFA	Incident No (s):				Incid	ent Name	: Latro	be Val	lley Coa	l Mine I	Fire		Victoria	and Environment
Sector:	Southern Ba	tters		Ph	one		Trunk		Comr	nand	Fire	eground	Fallback	Other
Sector Co	ommander:													
Re	source ID	Lea	der	Shift 1	Times	Crew	Tanke	er	SOU	Vehi	cle	Plant	Not	tes
Scoresby H				0700-19	900	2				1				
Teleboom	44			0700-19	900	4				1				
Task Force	e 1508			0700-19	900	16				5				
Task Force				0700-19	900	26				5				
	TB, KB P/T, Mt													
	per, LW Pumper													
Industry				0700-1		40								
					Total:	133								
<b>Strategie</b>	s:													
Incident	Control: Prevent	t fire spread into	working	coal face										
		tion: Power Line												
	/ Work to do:			<u> </u>										
_		n to provido norm	oonont w	stor Comm	an cod h	uild in N	lorthorn	Costo						
		n to provide pern	nament w	ater. Comme			vorunern	Secto	Dr					
Other Ins	structions:													
Changed	over with:													
Other:														

Sector: Mine Floor	Sector: Mine Floor			Trunk	Command		Fireground		Fallback	Other
Sector Commander: Indust	ry									
Resource ID	Leader	Shift Times	Crew	Tanker	SOU	Vehi	cle	Plant	Not	tes
Hazelwood personnel ONLY		0700-1900	40			10		2		
		Total:	40							
Strategies:										
Incident Control: Prevent fire	e spread into working coa	face								
<ul> <li>Assets and Values Protection</li> </ul>	: Power Lines and water	pumps								
Progress / Work to do:										
<ul> <li>Establish new water main to</li> </ul>	provide permanent water	. Commenced b	uild in	Northern Sect	tor					
Other Instructions:										
Changeover with:										
Other:										

Division: Yallourn		Phone		Trunk	Comr	mand	Fireground	Fallback	Other
Divisional Commander: R Taylor		5128 2268			219		69		
Resource ID	Leader	Shift Times	Crew	Tanker	SOU	Vehic	le Plant	No	tes
MCV (SMR CFA)		0700-1900	2			1			
		Total:	3						

Sector: Township Mine	9	Phone		Trunk	Com	nand	Fireground	Fallback	Other
Sector Commander:									
Resource ID	Leader	Shift Times	Crew	Tanker	SOU	Vehic	cle Plant	No	tes
Aerial Pumper		0700-1900	8			2			
		Total:	8						
Strategies:									
<ul> <li>Incident Control: Prevent fi</li> </ul>	re spread to coal face.								
<ul> <li>Assets and Values Protection</li> </ul>	on:								
Progress / Work to do:									
<ul> <li>Blacking out within contain</li> </ul>	ment lines								
<ul> <li>Patrol of containment lines</li> </ul>	and suppression of flare	ups and spotting							
Other Instructions:									
<ul> <li>Changeover with:</li> </ul>									
<ul> <li>Other:</li> </ul>									

20	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/D	ay	Approved by:	Nick Brown	State Covernment
CF	Incident No (s):				Inciden	t Name:	Latr	robe Valley Coal	Mine Fire	Victoria and Environmer
		A	DMIN	IISTRA	TION		LO	GISTICS		
Br	iefings									
•	Times / Locations	Start of shift 07	00-1900	Crews, 0	800-200	0 IMT				
Me	eals and Drinks									
		All meals at the	Hazelwo	ood Div Co	mm					
•	Meals	ICC catering at	Hazelwo	od						
		Yallourn Div Co	mm to c	ollect meal	s – loca	I arrang	emer	nts		
•	Other Details	Water and Gate	orade at	the Div Co	mms					
Ve	hicles									
•	Fuelling	Appliances fuel	at main	bowser on	site					
•	Water Points	Throughout Site	e							

•	Mechanics	Via ICC (Not on Site). From Fleet Services, vehicles should not be released from the Open Cut Mine until fully inspected and cleared by a DMO/MFB Fleet Services.
Ac	commodation	
•	Location	As advised through the ICC
•	Other Details	

Tir	mekeeping	
•	How and Where	
Ot	her	
•	Feedback	Please provide feedback by hrs via your chain of command for any alterations to the Shift Plan.
NC	DTE: Additional info	rmation can be obtained through your Chain of Command.

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Incident Details	Plan No: Date: 14/2	2/2014 Shift: Night/Da	ay Appr	oved by: Nick Brow	State Government Sustailiduility
Incident No (s):		Incident Name:	Latrobe Val	ley Coal Mine Fire	Victoria and Environn
	COMMAND		ICATIO	N (IMT)	
INCIDENT CONTR	<b>COL</b> LOCATION: Haz	elwood Power Stati	on Contro	l Centre, Brodr	ibb Road, Morwell
CENTRE	PHONE: 5135 5	877 FAX: 513	5 5977	Other:	
AIIMS Position	Name	Phone	Trunk	Conventional	Other
		CONTROL			
DAY Incident Controller	Nick Brown	0428 942 493			
DAY Deputy Incident Controller	Costa Katsikis	0409 861 834			
DAY Deputy Incident Controller	Simon Bloink	0428 940 129			
NIGHT Deputy Incident Controller	Ron Young	0427 036 141			
DAY Medical Officer	Tina Marchington	0427 502 490			
DAY Health Commander	Roger Chitty	0429 176 559			
		PLANNING	1		
DAY Planning Officer	Mick McGuinnes	0429 212 872			
NIGHT Planning Officer	Richard Grant	0417 054 311			
DAY Deputy Planning Officer	John Cranston	0429 102 889			
NIGHT Dep. Planning Officer	Neil Thompson	0429 102 889			
DAY Planning Assist	Briody Walker	0429 212 872			
DAY Situation Officer	Gavin Fitzgerald	0427 533 015			
NIGHT Situation Officer	Wayne Nagorcka	0427 533 015			
DAY Resources Officer	Warren MacKay	0428 956 478			
NIGHT Resources Officer	Carmen Peters	0428 956 478			
DAY Deputy Resources Officer	Annie Heritage	0429 216 770			
DAY Scientific Officer	Warren Glover	0407 857 532			
DAY MFESB Liaison	Ken Campbell	0411 259 946			
		INFORMATION	N		
DAY Information Officer	James Haley	0429 233 491			icchaz.pubinf@icc.vic.gov.a
NIGHT Information Officer	David Goldfinch	0429 233 491			
DAY Warnings & Advice Officer	Sharon Linke	0429 218 365			icchaz.warnings@icc.vic.gov.au
DAY Media Officer	Evan Thomas	0429 358 957			icchaz.media@icc.vic.gov.au
		LOGISTICS			
DAY Logistics Officer	Ken Dickie	0427 262 078			
NIGHT Logistics Officer	Marisha Pattern	0427 262 078			
DAY Deputy Logistics Officer	Paul Cockrell	0427 871 812			
DAY Logistics Officer Div Comm	Peter Watt	0427 608 052			
		OPERATIONS			
DAY Operations Officer	Dean Manson	0447 587 797			
NIGHT Operations Officer	Lou Mele	0418 335 171			
DAY Deputy Operations Officer	Graeme Grant	0418 307 517			
NIGHT Deputy Operations Officer	Shane Mynard	0408 037 399			

Incident Details	Plan No: Dat	te: 14/2/201	4 Shift:	Night/D	ay	Approved by:	Nick Brown	State Governme	
CFA Incident No (s):			Inciden	nt Name:	Latro	be Valley Coal	Mine Fire	Victo	and Environme
	COMMAND	AND CO	MMUN	ICAT	ION	(FIREG	ROUND)		
		DI	/ISIONS	/ SECT	ORS				
Division / Sector	Commande	r Pł	none	Trur	ık	Command	Fireground	Fallback	Other
Hazelwood	DAY Pete Barr NIGHT A. Worce NIGHT M. Tisbur	ster	991507 Гba tba			219	6		Fax 51355977
Yallourn	Rohan Taylor	512	8 2263			219	69		0422697165
Hazmat Division	Andy O'Connell	0418	497 106						
Mine Liaison Hazelwood	Geoff Chrisp	0407	857532						
Mine Liaison Yallourn	Bernie Hyde (mana	ager) 0419	364 756						
Ambulance Response Retriev	al and Rescue	0408	052 062						
		STAGIN	IG AREAS	S / BAS	e cai	MPS			
Staging Area / Base Camp	Manager Nan	ne Pł	none	Trur	ık	Command	Fireground	Fallback	Other
Hazelwood ICC		0417	123 620			219	6		
NOTE: Feedb	ack on Communications	s Plans should	be directed	through th	e chain	of command to t	he Communication	ns Planner.	

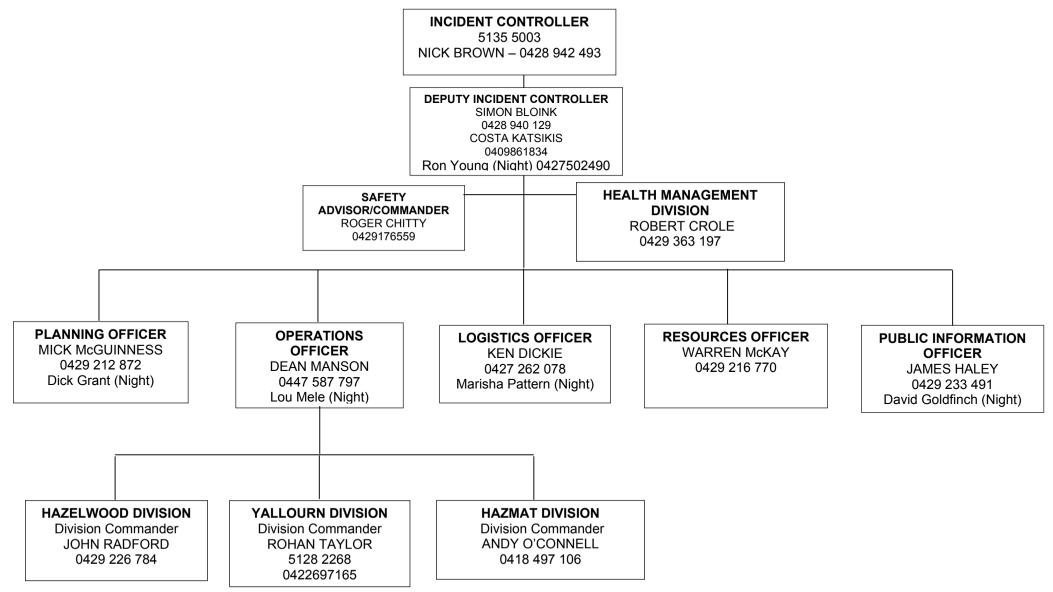


# **COMMAND & COMMUNICATIONS (MOBILE PHONE)**

MOBILE NO.	POSITION
0428 942 493	INCIDENT CONTROLLER
0429 071 765	INCIDENT CONTROLLER
0429 046 798	EO
0428 940 129	DEPUTY INCIDENT CONTROLLER
0429 154 210	DEPUTY INCIDENT CONTROLLER
0428 907 573	OPERATIONS
0428 908 670	OPERATIONS
0429 066 433	DEPUTY OPERATIONS
0429 161 071	DEPUTY OPERATIONS
0429 212 872	PLANNING
0429 086 209	PLANNING
0429 102 889	DEPUTY PLANNING
0429 461 117	DEPUTY PLANNING
0429 216 770	RESOURCES
0428 956 478	RESOURCES
0427 562 414	SITUATION
0427 533 015	SITUATION
0427 262 078	LOGISTICS
0427 608 052	LOGISTICS
0427 700 991	LOGISTICS - CATERING
0427 665 968	LOGISTICS - CATERING
0428 209 381	LOGISTICS - ACCOM.
0428 226 734	LOGISTICS - ACCOM.
0429 118 018	GROUND SUPPORT
0427 871 812	GROUND SUPPORT
0428 397 619	SUPPLY
0428 590 329	SUPPLY
0429 233 491	PIO
0429 267 272	PIO
0429 218 365	MEDIA
0429 358 957	MEDIA
0429 226 784	DIVISION COMMAND
0429 371 301	DIVISION COMMAND
0429 337 699	DIVISION COMMAND
0429 325 213	DIVISION COMMAND
0429 363 197	AMBULANCE VICTORIA
0429 417 680	AMBULANCE VICTORIA
0429 340 047	AMBULANCE VICTORIA
0429 423 291	AMBULANCE VICTORIA
0429 378 320	AMBULANCE VICTORIA
0429 374 840	MFB
0429 391 894	MFB
0429 376 437	SAFETY
0429 386 319	SAFETY
0429 502 833	HEALTH MONITORING
0429 440 713	HEALTH MONITORING
0429 444 720	STAGING AREA
0429 479 587	STAGING AREA
0.20 110 001	



# LATROBE VALLEY COAL MINE ICC



8	Incident Details Plan No: Date: 14/2/2014 Shi	ft: Night	Day	Approved by:	Nick Brown	State Government Sustainability
FA	Incident No (s):	ident Name:	Latro	be Valley Coal I	Mine Fire	Victoria and Environment
		A F F T V				
	5.	AFETY				
NEW	V MESSAGES:					
1.	. Until further notice personnel are only permit	ted to o	perate	on the mir	ne batters whe	en the following
	conditions are adhered to-		امانه ا			ad ta si sht du a ta
	<ul> <li>Must wear breathing apparatus outside t risk assessment currently being conduct</li> </ul>					
	<ul> <li>Must have a personal Carbon Monoxide</li> </ul>	-	-			experte.
	Report CO readings every hour on chani		( )			
	Vehicle must exit the mine once task has	s been c	omple	ted or whe	n breathing a	pparatus is no
2	longer in use	h arawad	امريما	must		
2	<ol> <li>All personnel undertaking fire suppression a wear P2 Masks     </li> </ol>	t ground	ievei,	must.		
	<ul> <li>Must have a personal Carbon Monoxide</li> </ul>	Detecto	r (CO)	with the c	rew	
	Report CO readings every 15 minutes		. ()			
3.	B. All personnel entering the site are prohibited	from si	noking	g for the du	ration of thei	r shift. (Refer to
	No-Smoking Direction document)				<b>c</b>	
4	<ol> <li>All crews entering the mine will wear BA and Operation Order desumant)</li> </ol>	l only to	prote	ct critical ir	frastructure.	(Refer to Interim
5	Operation Order document) 5. Hazelwood and Yallourn Division personnel a	are to ur	dertal	ce health m	onitoring for	CO prior to
5	entering the mine and immediately prior to e					
	health monitoring has been completed. The					
	be undertaken – see Carbon Monoxide Expo					
	Mitigation Cycle Flow Chart). Any person wit	h a CO⊦	b read	ding above	5% must be	treated and not
6	returned to work in the mine.	roadin		radia (Char	anal 210) ava	ry hour Tfanoak
0	<ol> <li>Crews are to monitor for CO and report back reading of 75ppm is indicated withdraw</li> </ol>		-	•		
	tonight due to risk assessment currently					-
	scientific experts.	senig e				
7.	7. "Any members with Respiratory disorders, A	sthma, (	Cardia	c conditions	s, Diabetes, H	ligh blood
-	pressure, or if pregnant, are <b>NOT</b> to be task			•		
8.	<ol> <li>Female Firefighters – State emergency agen Madical Officers and the Deputy Regional Ha</li> </ol>					
	Medical Officers and the Deputy Regional He Hazelwood that there is a risk to the foetus					
	concentrations of Carbon Monoxide potentia			•	-	
	State emergency agencies highest priority a					
	pregnant or there is any chance that they m					
	the increased potential exposure to carbon r	nonoxid	e. Fer	nale firefig	hters should s	seriously consider
~	this advice.					
	<ol> <li>Adhere to safe driving practices. (attached)</li> <li>Crews to be aware of where they are working</li> </ol>			ork under r	ower lines an	nd consider
10	everything as live.	9. DO N				

- 11. Be aware of poor visibility and increased risk of plant / pedestrian interaction
- 12. ON arrival at staging / catering areas ensure transition into clean areas via cleaning stations before presenting for health observation.
- 13. Headlights and flashing roof lights to be used at all times.
- 14. Nights shifts beware of inversion layers trapping smoke and CO within the mine.

2001	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/D	ay	Approved by:	Nick Brown	State Government Department of Sustainability
CFA	Incident No (s):				Incident	t Name:	Latro	be Valley Coal I	Mine Fire	Victoria and Environment

# **MEDICAL PLAN / EVACUATION PROCEDURES**

### AT THE START OF EACH SHIFT:

- 1. Qualified First Aiders to be identified in each crew.
- 2. Ensure First Aid kits are in each vehicle and all personnel have appropriate PPE and consumables.
- 3. All Hazards, Incidents and Near Misses must be reported.
- 4. Fire OH&S Incident Report Cards are available from the ICC
- 5. Review the information below.

#### FOR MINOR INJURIES:

- 1. Report all injuries to your Crew Leader / Supervisor immediately, including completion of a Fire OH&S Incident Report Card.
- 2. Fire OH&S Incident Report Cards are to be passed up the chain of command to the Logistics Officer / Medical Unit Leader ASAP.
- 3. The Crew Leader / Supervisor and a qualified First Aider should assess the injury and decide how it should be managed.
- 4. First Aid providers are on hand at the ICC for minor treatments 24 hours. Arrangements made for rescue and retrieval with Mines Rescue Crews if required.
- 5. EMR responders on site at Yallourn providing First Aid coverage

### FOR MAJOR INJURIES:

### IN AN EMERGENCY CALL: <u>OPERATIONS Channel 219</u> (AS PER COMMS PLAN)

- 1. Assess the situation and ensure all personnel are safe from further injury.
- 2. First Aider to provide assistance as necessary.
- 3. Contact your Crew Leader / Supervisor and provide them with the details of the incident.
- 4. Critical information required:
  - The nature of the injury
  - The condition of the patient (Conscious / Unconscious)
  - The location (Track Name / Grid Reference)
  - The name of the person coordinating at the scene
  - Do Not Use the Name of the Injured Person on Conventional Radio
- 5. Crew Leader / Supervisor to inform Sector Commander, who passes information up the chain of command to Operations Officer.
- 6. As the Coordinator of the response to all major injuries, Ambulance Victoria will arrange for the transportation and treatment of the patient with the assistance of the Operations and Medical Units.
- 7. All injuries are to be reported to your crew leader immediately, including completion of a Fire OH&S Incident Report Card.

#### WELFARE:

For any support required – including emergency counselling, contact the Logistics Officer or Medical Unit Leader. DSE/NEO: Employee Assistance Program (24hr Support Line) - 1300 360 364; 24hr Peer Support - 0408006764. CFA: Critical Incident Stress and Health Support Team (24hr Support Line) - (03) 9262 8701. MFB: Contact Peer Support – (03) 9665 4405, 0407 665 174

# Carbon Monoxide Exposure Management

### Background

To support the site health surveillance program, continuous monitoring of Carbon monoxide levels is being undertaken.

One member of each operational Fire Appliance is wearing a CO monitor. Members of Hazelwood mining and power station employees are also monitoring CO in their work areas. Results are being recorded by DIVCOMM and Hazelwood OHS respectively.

In addition, positional monitors (AreaRAEs) are continuously monitoring CO, Oxygen, Volatile Organic Compounds, Flammability and Hydrogen sulphide levels throughout the site, including administration areas. These monitors are deployed in areas of concern and results are transmitted wirelessly to the HazMat Team in the Staging Area for continuous surveillance and risk assessment. The Scientific Advisor will advise the HazMat Sector Commander when and where zone classifications need to be changed.

200	Incident Details	Plan No:	Dat	: 14/2/2014	Shift:	Night/D	ay	Approved by:	Nick Brown	State Government	Department of Sustainability
CFA	Incident No (s):				Inciden	t Name:	Latro	be Valley Coal	Mine Fire	Victoria	and Environment

HazMat Technicians are also monitoring CO throughout the Morwell community.

# Table 1: Safety Zones and Action Levels – Operational Areas

The purpose of the following zones is to minimise the risk of personnel exceeding the biological exposure limit of 5% Carboxyhaemoglobin.

Zone	CO Concentration (ppm)	Exposure Management
Cold - Offsite	9	DoH and EPA should be consulted for guidance
Warm - Unrestricted	<30	At this level firefighters/workers are permitted to work in standard PPE, including P2 respirator, standard work hours, and undergo health surveillance as per site procedure.
Warm – Protective Action	30-50	As per site SCBA, crew rotation procedure
Hot - Restricted	>50	As per site procedure for essential works

Reference: SafeWork Australia Occupational Exposure Standards, Health and Safety Information System. Cold Zone - Community Health Limits

Government of Australia, Department of Environment and Heritage recommend the ambient air CO level be kept below 9 ppm and persons not exceed this level for more than 8-hours in one year. DoH and EPA should be consulted for guidance.

### EXPOSURE TO CARBON MONOXIDE

Smoke and the production of other toxic products are inherent in bush and other types of fires. The current fire at the Morwell open cut coal mine is producing smoke and also Carbon Monoxide due to the incomplete burning of the coal. Agencies are to ensure that appropriate mitigation measures are employed to address this risk.

Exposure to Carbon Monoxide can pose higher levels of risk to specific personnel and the following advice has been provided by the SCC OHS advisor.

### General Health Issues

Individuals who have a history of cardiovascular or respiratory conditions should not be deployed to this incident. This is due to the increased sensitivities that might be attributable from increased carbon monoxide levels in the open cut fire.

### Female Firefighters

State emergency agencies have received medical advice from the MFB and CFA Medical Officers and the Deputy Regional Health Commander at the Incident Management Team at Hazelwood that there is a risk to the foetus of pregnant women exposed to the high concentrations of carbon monoxide potentially present at this incident.

Health and safety is the State emergency agencies highest priority and because of this risk any female fire-fighter who is pregnant or there is any chance that they may be pregnant, should not attend this incident due to the increased potential exposure to carbon monoxide. Female firefighter should seriously consider this advice.

### Pre Deployment

Crews planning to be deployed for a shift in the open cut fires should have 24hrs of "clear time" away from smoke logged incidents (e.g. prior deployments).

This information should be made available to all personnel within all agencies who are deploying staff to the coal mine fire

### Weather today:

### Friday 14 February

Partly cloudy. Patchy fog early in the morning. The chance of showers in the east, extending throughout from the late morning.

Areas of smoke haze. Light winds becoming easterly 15 to 20 km/h in the early afternoon. Overnight temperatures falling to

between 14 and 17 with daytime temperatures reaching 24 to 29.

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Incident Details	Plan	No: Da	te: 14/2/2014	Shift: N	light/Day	Approved by:	Nick Brown	state Government S Victoria a	ustainabilit
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200	Incident Details	Plan No:	E	Date:	14/2/2014	Shift:	Night/Da	ау	Approved by:	Nick Brown	State Government Of Sustainability
CFA	Incident No (s):					Incident	Name:	Latro	be Valley Coal I	Mine Fire	Victoria and Environment



Australian Government

IDV31250 Australian Government Bureau of Meteorology Victoria

#### Spot Fire Weather Forecast for Morwell - Hazelwood

Issued at 3:52 am EDT on Friday 14 February 2014.

Incident Type: Wildfire	Website Form No: 003
Spot Forecast Location: 1 km S of Morwell	Request No: 4
Latitude/Longitude: -38.255067 146.375948	Fax Number: 51773295
Elevation (metres ASL): 90	Contact Ph: 0427562414 042862123
Fuel Type: Other	Contact Name: Wayne Nagorula icchaz@icc.vic.gov.au)/Bryan Wills (icctra.plan@icc.vic.gov.au)

#### Weather Forecast starting 0500 hours Friday 14 February 2014

Light winds expected this forecast period, mainly from the east. Early fog patches possible this morning and again near the end of the period. The day will be fairly cloudy with smoke haze from other fires as well as the incident present and poor visibility. Mixing height less than 100m AGL at first, increasing to around 1200m AGL Friday afternoon before decreasing again to around 100m AGL Friday evening. A combination of little sunlight and light winds will mean that the incident is poorly ventilated and accumulated carbon monoxide may pool near the fire. There is a risk of showers developing during the afternoon and into the evening hours. There is a slight chance of thunderstorms in the afternoon or early evening.

#### Assumptions and uncertainties associated with the forecast

- Fire site is in the opencut, wind forecasts are biased to 10m AGL near the opencut.

- Although winds will likely be predominantly easterly, any showers or thunderstorms which do occur could

produce wind gusts to 40 km/hr from various directions as outflow winds.

- Up to 10mm of rain may fall if heavier showers or thunderstorms affect the region.

24 Hou	24 Hour Forecast													
Drought	factor: 10			Curing va	alue (%): 8	0								
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0800	17	16	94	SE	5	10	E	10	1	0				
1100	24	16	61	E	10	15	ENE	15	4	1				
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2000	23	17	69	ESE	10	20	ENE	15	3	1				
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0200	17	17	100	E	5	10	NE	25	1	0				
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AGL - Above Ground Level, RH - Relative Humidity, Dir - Direction, Dewpt - Dew Point

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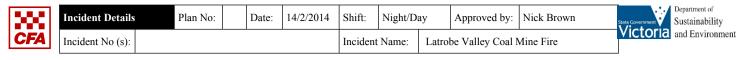
<b>XX</b>	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/Da	у	Approved by:	Nick Brown	State Government Of Sustainability
CFA	Incident No (s):		·		Inciden	it Name:	Latrol	e Valley Coal	Mine Fire	Victoria and Environmen
			SHIF		[EF /	FEED	BAC	K FORM		
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CFA	Incident No (s):					Incident	Name:	Latro	be Valley Coal I	Mine Fire	Victoria and Environment

# FOR DISTRIBUTION TO ALL CREWS

# Strategies for Driving in Open Cut Mines

- When driving in open cut mines, most drivers will be confronted with conditions and issues never before experienced and great care needs to be taken to avoid being involved in a dangerous situation. Only vehicles with 4 Wheel Drive (4WD) or All Wheel Drive (AWD) capability will be permitted into the mine area. It is most important for the safety of the crew and the vehicle that all personnel listen closely to briefings that are given and to assist whilst operating in this environment
- Before entering the open cut, all drivers must engage the vehicles 4WD/AWD systems and ensure that the correct engagement has been followed. The surface may be soft so it is therefore important to ensure 4WD is engaged and functioning. Seatbelts shall be worn at all times, except when directly involved in pump and roll fire-fighting operations
- A traffic management plan may be in place and needs to be adhered to. This will ensure a co-ordinated traffic flow of vehicles in the mine. Deviating from the traffic plan could endanger both crews and vehicles and shall not be tolerated. These plans are put in place to ensure the safety of the vehicles and crews. All vehicles must follow and remain on existing tracks, even when laying hose to extinguish areas that are away from the track unless otherwise directed. Under no circumstances is the vehicle to leave the track for even the smallest of distances.
- Because of the nature of the operation, the vehicles will be working hard and the driver needs to constantly monitor the vehicles condition by checking the gauges and listening for tell-tale warning sounds of any problem developing in the vehicle. Drivers must be aware of areas where the clearances are reduced, both to the sides and overhead. If there is a situation with reduced clearances, then a guide must be used to ensure that no damage is caused to the vehicle or the structure.
- As the area the vehicle is operating in, is a flammable area, all sources of ignition must be left in a safe location and not carried by personnel into the open cut. This includes any matches, cigarette lighters or like equipment used by fire fighters or carried on the vehicle.
- Strike Team Leaders and crew leaders must ensure that the Incident Action Plan is followed and only those operations set out in the plan are carried out.
- Prior to the vehicles being released from the staging area and returning to their home location, it is essential that the District Mechanical Officer (DMO) is consulted. The vehicle has been working hard and the mechanics may need to check the vehicle to ensure that there are no mechanical issues with the vehicle.
- As there are many vehicles operating in a confined area it is essential to follow the speed limits relevant for the area operating in or the speed limits set out in the traffic management plan. Great care must be taken by drivers to ensure a safe operations area for everyone. If unsure about the appropriate speed, seek clarification or use the suggested speed limit of 15 kph.
- In the event that a vehicle becomes disabled, notify the Incident Controller who will comply with CFA SOP's and/or local mine arrangements.





Department of
 Environment and

Primary Industries

# Public Information Planning Sheet

(For internal use only) Action Plan) IG SNEET V3 (For Public Information Section of the Incident

# Hazelwood Coal Mine Fire Latrobe Valley Coal Mines ICC

Date: 14/02/2014 Shift (Day/Night): Day Sheet No: 5 Developed by: Sharon Linke Time: 1800hrs Coal Mine Fire Estimated size Terrain Incident type (eq grass, forest, **Hectares** structure, hazmat, etc) (in hectares) (eg hilly, flat. etc) Hazelwood - Hazelwood Coal Mine, Brodribb Rd Location Town name - Then actual incident location (eg: Somewhere – Where Road) The Hazelwood mine fire is currently burning on 3 levels of batter within the mine travelling Situation approx. 3kms. Vegetation fires are currently burning on the mine floor at approx. 154ha in size. Which direction is it heading in? Is it spotting? If so how far? Burning within containment lines. The Yallourn mine fire is burning on the mine floor & Southern Batters. Produce & disseminate media releases once a day. **Public Information Shift** Update OSOM messages as required or by review times. **Objectives** To manage media requests coming in. (eg: Disseminate Timely, Relevant and Co-ordinate VIP visits. Tailored community messages to the Liaise with Industry Media Officers (GDF Suez & Energy Australia), SCC and Traralgon Communities of .....) ICC/Traralgon RCC Inform Community of fire status and any public safety issues. 1. Releases via email distribution lists Strategies (What dissemination methods can we Co-ordinate radio interviews with State & Regional Media Units 2. use eq: OSOM/EA. Live interviews. 3. Email & phone Community Meetings, Bulletins. 4. Determine need and establish community information points. **Communities impacted** OSOM Message Type (potential and/or current) (please tick the appropriate box) (Indicate times) Note: When using OSOM you must All Clear Message Advice Watch & Act Emergency Planned time to disseminate to 'State Mandatory' and Message Warning Issue Message Message 'Local Regional' distribution lists. Message 1. Churchill, Driffield, Hazelwood, Х **Review &** Hazelwood North, Hazelwood South, reissue @ Hernes Oak, Maryvale, Moe, Morwell, 1000hrs Morwell Bridge, Morwell North, Morwell 15/02/2014 West, Newborough, Yallourn, Yallourn Heights, Yallourn North **Localised Area Under Emergency Alert Message Type** (please tick the appropriate box ) (Indicate times) **Imminent Threat** Watch & Act Advice Message Warning Message Planned Time to Issue Message (eg: Description of Campaign Message boundaries) 1. Nil 2. Road closures No full road closures currently but there may be restricted speed limits in some (eg: Identify main road closures, if not know areas. advise to check VicRoads website) Nil **Relief centres** Health of fire fighters due to increased levels of carbon monoxide. **Critical Issues:** Fire has potential to burn for 2 weeks creating issues with smoke constantly in the area. (eg: Places of assembly, major Community awareness and engagement of effects of smoke infrastructure, fire potential etc) Community gas &dust monitoring in Morwell

Public Information Officer: Sharon Linke

Signature	9
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**Incident Controller:** 

Signature:

	Incident Details	Plan No:	D	Date:	14/2/2014	Shift:	Night/D	ay	Approved by:	Nick Brown	State Government Department of Sustainability
CFA	Incident No (s):					Incident	t Name:	Latro	be Valley Coal I	Mine Fire	Victoria and Environment

# SMEACS BRIEFING - 14/02/14 1800hrs

# SITUATION

# Health Management

This Division incorporates all health monitoring and ambulance response resources. All health monitoring activities remain effective. E.g. Present for testing prior to the commencement of shift and at the conclusion of shift.

## <u>Hazelwood</u>

Fire continues to burn along 3 levels of batter on the Northern, Eastern and Southern sides of the mine for an estimated area of 2.5km in width, 60m in height. There is a large quantity of "overburned" with vegetation fires burning on the floor of the mine, approximately 154ha. **Note:** These are all non-working sections of the mine. Wet lines have been put in place between the active fire area and the working sections of the mine to prevent the spread of the fire. Fall back lines in the event of increased fire behaviour or loss of control. Dozers working on mine floor.

Four (4) sectors currently operating-

# Alpha & Bravo Sectors: Northern Batters

Suppression work is being undertaken on all 3 levels progressing in an easterly direction. Monitors have been better positioned today to protect power lines. Mine staff have been continuing work on reinstating a 300mm water main along this section and construction of a new water main to provide fixed fire suppression on the batters. Crews have created a mineral earth break between the power lines and batters. Vegetation around power poles is being cleared and surrounding areas further secured with sand.

# **Charlie & Delta Sectors: Southern Batters**

Operations concentrating on containment and asset protection. Lay flat hose and Telebooms, cranes with monitors and ground monitors are in place to provide containment and suppression on the southern batters. Air crane working late afternoon to provide water bombing on the sector.

### Mine Floor: North/South Mineral Earth Break

This is in the over burden and wet lines forming fall back line between Working Face have been completed. Only crews undertaking vital asset protection duties are now working in this sector. Crews working on the mine floor will require Breathing Apparatus. Pumps, Monitors and Iay flat hose have been installed to provide asset protection for the central pumping station. RTL Contractors are patrolling the mine floor and adhering to the Carbon Monoxide Management Plan.

There is currently no fire fighting activity in the Working Face Sector. Industry has unmanned wetting systems installed.

200	Incident Details	Plan No:	Date	: 14/2/2014	Shift:	Night/D	ay	Approved by:	Nick Brown	State Government Sustainability
CFA	Incident No (s):				Inciden	t Name:	Latro	be Valley Coal	Mine Fire	Victoria and Environment

### Yallourn Mine Division

The fire to the North East of the Mine is controlled. The fire outside of the mine is being managed by Traralgon ICC.

The size of the fire in the old Yallourn township batters are approximately 60m high x 1.5 km long, fire has spread onto the floor of the mine and is approximately 30 hectare. Water bombing has been conducted on this section and will be monitored for effectiveness.

Two (2) Sectors are currently operating-

## **Sector Township Batters**

There has been some fire extension into the floor of the mine; this area is inaccessible due to terrain and Mine Services working North West area extinguishing batters with gravel, sand and rock. 2 x Aerial pumpers have been working on the south batters and have made good progress on two levels of the batters. CO readings have been continually monitored throughout the day with low level to 0 level being experienced.

## **Critical Factors:**

- It is imperative that crew leaders maintain monitoring, recording and reporting of their readings to the atmospheric monitoring crew via radio(219). All crews returning from work need to go through the Health Observation Station for assessment and clearance for work.
- Low humidity and high winds, particularly anything from the North East, East or South East.
- Loss of infrastructure to provide power to onsite pumps. (Hazelwood Division)
- Fire spread into the operation coal face.

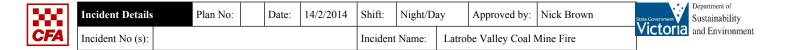
# Asset Loss currently is:

<u>Hazelwood</u> – Some damage has previously occurred to onsite power lines and pumping stations. Power lines have been partially restored. Damage has also occurred to the conveyor to Energy Bricks.

Yallourn- No recorded asset loss

# Assets and Values at Risk:

Onsite electrical power lines and pumping equipment.



# **MISSION**

# Incident Objective(s):

To contain the fires and secure the batters by Saturday 15th February at 1900hrs and extinguish within 14 days.

### Hazelwood

Contain fires burning on the batters on the coal face.

Establish lines to prevent further spread of the fire into current coal removal area.

Control and extinguish spot fires and flare ups as they occur.

Asset protection of power and critical infrastructure, pumping units, coal production including dredges and conveyors etc. and 66KV lines on North side of mine.

Protection of West side of mine from Driffield Fire.

Protection of Morwell Sub-Station

Protect clean water pumping station.

Extinguishment of batters.

### <u>Yallourn</u>

Maintain containment lines and continue blacking out within containment lines.

Control and extinguish fires and flare ups as they occur.

Ensure firefighter safety.

	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/D	ay	Approved by:	Nick Brown	State Government
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# **EXECUTION**

Yallourn Division

This fire is currently being worked by two CFA aerial pumpers and 30,000L tankers supplied by the Mining Industry.

Unmanned exposure protection resources deployed on mine floor the working face sector.

Numerous industry resources in all sectors, protecting critical exposures.

Hazelwood Division

Significant CFA & MFB resources commitment at this division.

Telebooms, Heavy pumpers, pumper tankers, tankers, numerous ground monitors in operation to provide large quantity water application to batters, along with 4wd tankers providing low level moping up and suppression of fires in overburden areas.

# **ADMINISTRATION**

Latrobe Valley Coal Mine ICC located at Hazelwood, managing the fire in the open cut mine.

ICC at Hazelwood Training Centre. Hazelwood Div Com at Staging Area and Yallourn Div Com at Yallourn Mine Fire Station.

<u>Vehicles</u>

Wash down / decon of all vehicles must be completed prior to any vehicle operating throughout the mine leaving Hazelwood.

All fire fighting vehicles must be inspected by DMO prior to leaving the mine site at any stage.

# **COMMUNICATIONS**

Incident Management Team - Hazelwood Control Centre

Divisional Command – Rohan Taylor (Day Shift) for Yallourn Power Station – 5128 2263

Divisional Command – Peter Barr (Day Shift) for Hazelwood Power Station- 0408 991 507

Divisional Command – A Worcester (Night Shift) for Hazelwood Power Station-

Fireground Radio Channels is 69

XX	Incident Details	Plan No:	Date:	14/2/2014	Shift:	Night/Da	ay	Approved by:	Nick Brown	State Government Department of Sustainability
CFA	Incident No (s):				Incident	Name:	Latro	be Valley Coal I	Mine Fire	Victoria and Environment

# **SAFETY**

Firefighter Safety is Paramount - Utilise all PPE as required including P1 Masks

Once established, all crews will report to the Medical Monitoring before deployment into the mine area and upon return

Observe 2 meter safety distance from batter edges

Do not drive appliances over power cables

# **Atmospheric Monitoring**

All appliances to carry minimum of 1 air monitoring devise for crew protection CO levels.

Zone	CO Concentrati on (ppm)	Exposure Management
Cold - Offsite	9	DoH and EPA should be consulted for guidance
Warm - Unrestricted	<30	At this level firefighters/workers are permitted to work in standard PPE, including P2 respirator, standard work hours, and undergo health surveillance as per site procedure.
Warm – Protective Action	30-50	As per site SCBA, crew rotation procedure
Hot - Restricted	>50	As per site procedure for essential works

Avoid driving in areas where washouts have occurred and report any large cracks or fissures to the Divisional Commander.

Be alert to sliding rocks and hazards along batter lines

Do not place body parts over hydrants

Maintain hydration at all times whilst in the mine - take adequate rest breaks to maintain optimum health

Report all injuries

Clean and Dirty areas will be set up and universal precautions will be practiced prior to eating

Beware of driving on Coal Face - slippery surface

### Interim Operational Order

Until further notice personnel are only permitted to operate on the mine batters when the following conditions re adhered to:-

- Must wear breathing apparatus outside the vehicle in the mine.
- Must have a personal Carbon Monoxide Detector (CO) with the crew
- Report CO readings every 15 minutes as per current practice
- Vehicle must exit the mine once task has been completed or when breathing apparatus is no longer in use.

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All personnel undertaking fire suppression at ground level, must

- Wear P2 Masks
- Must have a personal Carbon Monoxide Detector (CO) with the crew.
- Report CO readings every 15 mintues as per current practice
- Vehicle must exit the mine once task has been completed or when breathing apparatus is no longer in use.

# Non-Smoking Direction

All personnel, who may be required to enter the mine area for fire & emergency operations are prohibited from smoking on site.

# New Messages

- All Hazelwood Division personnel are to undertake health monitoring for CO prior to entering the mine and immediately prior to exiting the mine. Personnel are not to leave the site until health monitoring has been completed. The COHb reading must be reduced below 5% before any work can be undertaken – See Carbon Monoxide Exposure Management (Below).
- 2. Whilst in the mine, all Hazelwood crews are to monitor for CO and report back readings via radio (Channel 219) every hour. If a peek reading of 75ppm is indicated withdraw to a clean area immediately.
- 3. "Any members with Respiratory disorders, Asthma, Cardiac Conditions, Diabetes, High Blood Pressure or if pregnant, are **NOT** to be tasked to Latrobe Valley Coal Mine Fires.
- 4. **Female Firefighters** State emergency agencies have received medical advice from the MFB and CFA Medical Officers and the Deputy Regional Health Commander at the Incident Management Team at Hazelwood that there is a risk to the foetus of pregnant women exposed to the high concentrations of carbon monoxide potentially present at this incident. Health and safety is the State emergency agencies highest priority and because of this risk any female firefighter who is pregnant or there is any chance that they may be pregnant, should not attend this incident due to the increased potential exposure to carbon monoxide. Female firefighter should seriously consider this advice.
- 5. Adhere to safe driving practices (attached).
- 6. Crews to be aware of where they are working. DO NOT work under power lines and consider everything as live.
- 7. Be aware of poor visibility and increased risk of plant/pedestrian interaction.
- 8. ON arrival at staging/catering areas ensure transition into clean areas via cleaning stations before presenting for health observation.
- 9. Headlights and flashing roof lights to be used at all times.
- 10. Night Shifts beware of inversion layers trapping smoke and CO within the mine.

Refer to separate guides on Carbon Monoxide Exposure Management and Safe Driving Strategies in Open Cut Mines

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<b>CFA</b> In	ncident No (s):					Incider	Incident Name:		Latrobe Valley Coal Mine Fire		Victoria and Environmen
Process on Handling CO Before deployment	On Arrival	results are below 5 %, COHb, the worker is able to start work, if over the results are over 5%, the worker doesn't Work Shift	is break times and travel in and out of the mine. v member who is active outside the vericle. plus H <sub>2</sub> S, O <sub>2</sub> and VOC from "Area Ree" remote monitors back to monitoring station.		Crew member Carbon monoxide concentrations are to be recorded every fifteen minutes and results relayed every hour to the DIVCOM. If in this hour period, there are two measurements exceeding 50 ppm but less than 75 ppm, worker must withdraw or utilize CABA. Any single measurement exceeding 75 ppm, CABA must be immediately used or workers must withdraw from the area. This result must be reported to the DIVCOM immediately.		At any time during monitoring of COHb during a shift if the 5 % level is exceeded, the worker will not be allowed back to work in areas of CO contamination.		review of previous days data relating to presentations of COHb of greater than 5%. Version 1, Fob 13, 2014.		
ORIGINAL	Provide an information fact sheet before deployment on COHb.	If the worker presents at pre work medical screening and the results are start work where may be exposed to CO.	Over a 12 hour shift, allow for 4 by 2 hour work shifts. Includes break times and travel in and out of the mine. Provide two levels of monitoring, personal monitors for a crew member who is active outside the vehicle. Second level, provide remote monitoring and recording of CO plus H <sub>2</sub> S, O <sub>2</sub> and VOC from 'Area Rae' remote m	Atmospheric Carbon monoxide (CO) action levels.	Crew member Carbon monoxide concentrations are to be recorded every fifteen minutes and results relayed every hour to the DIVCOM. If in this hour period, there are two measurements exceeding 50 ppm but less than 75 ppm, worker must withdraw or utilize CABA. Any single measurement exceeding 75 ppm, CABA must be immediately used or workers must withdraw from the area. This result mus immediately.	Blood Carbon monoxide (COHb) action levels.	At any time during monitoring of COHb during a shift if the 5 % level is e	Post work COHb monitoring and hygiene measures.	This document must be reviewed by the haz-mat commander with the review of p	Barry Poss Incident Controller 13 February 2014	

200	<b>Incident Details</b>	Plan No:	Date: 14/2/2014		Shift:	ift: Night/Day		Approved by: Nick Brown		State Government	
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