

COAL MINE EMERGENCY MANAGEMENT TASKFORCE – WORKPLAN TASKFORCE INITIATIVES STATUS REPORT – FIRE PREPAREDNESS - 30 September 2015

CD14/497853 v10

No.					
Rec No.	Issue	Action	Status	Comment Action	Status
Timeline	issue	Action	Otatus	Comment Action	Otatus
1.	Surveillance / Monitoring of	CFA,GDF SUEZ and DEDJTR –	CFA – Aerial FLIR Monitoring	Scheduled flights to be	
••	hot spots within the	To achieve this will require additional	Flights conducted over mines and fire	recommenced during FDP	
R 2.2	Hazelwood and other coal	thermal imaging camera technology	impacted areas from February fires during	Detailed records to	
(&R4.10	mines –	that is hand held, infrastructure	September and early October 2014	be maintained.	
& R4.16)	Establish a systematic	mounted and aircraft mounted. To	Copicinibol and carry Colober 2014	Clarification to be	
α ππ.το,	rigorous program of	address this issue will require CFA,		provided re	
31 Oct 15	surveillance / monitoring of	GDF SUEZ and DEDJTR to		hotspots/areas of	
31 Oct 16	hot spots across the	collaborate to agree to the technology		interest definitions.	
	Hazelwood Mine, in particular	and implement. the thermal imaging		Geotechnical issues	
	the area of the mine that was	camera data will need to be accessed		regarding impacts of	
	involved in the February /	from an open secure source to allow		rainfall, ground	
	March 2014. This will assist	all authorised user's access		movement and	
	timely decision making on the			oxygen impregnation	
	management of hot spots			to be further defined.	
	across the mine area. The				Completed
	mine operators have the		Flights discontinued upon all "areas of	To be re-instigated during	'
	primary responsibility to		interest" being investigated.	2015/16 fire season in	
	manage hot spots in the			accordance with identified	
	mines which includes			risk	Ongoing
	detection systems to be		Thermal imaging camera technology		
	established should be		available on primary response vehicles.		Established
	maintained. Therefore, there		Hazelwood – GDF SUEZ		
	is a requirement to work		Trailer mounted FLIR cameras permanently		
	closely with the mines to		located. One on Northern batters to monitor		
	achieve proactive management of hot spots as		Southern batters and one on Southern		
	a part of a systematic		batters to monitor Northern batters. TIC		
	approach to mitigate any		skilled personnel are available to provide		
	potential risk of fire		follow up monitoring for areas of concern.		Established
	potential floit of file		Permanent CCTV cameras installed in the		[_ , , , , ,]
			mine and monitored by control centre staff.		Established
			Yallourn – Energy Australia		
			Permanent CCTV cameras in place to cover		
			mine and monitored by mine control centre		Catabliab : -
			staff.		Established
			Number of portable monitoring cameras		Established

			also utilised with adequate resources rostered to relocate and maintain as		
			required Loy Yang – AGL Permanent CCTV monitoring in place at top of mine to provide coverage of mine and		
			surrounds Multiple cameras continually monitoring		Established
			mine and replayed in Management Centre and ICC.		Established
			Control room operates 24/7 which is responsible for monitoring and despatching of Emergency Response		Established
			Anglesea – Alcoa Mine closed as at 31 august 2015 and actions of reopened mine fire Inquiry hearing of 30 & 31 July 2015 actions completed Alcoa have completed coverage of exposed coal to the satisfaction of regulators and		
			responders. EMV to maintain monitoring role. Alcoa have instigated mine security and		
			surveillance program. Regular housekeeping checks performed to include areas of built up coal fines and other locations where spontaneous combustion is more likely to occur	Investigate the use of thermal imaging camera technology at the appropriate level e.g. hand held units Further review risk/requirement as part of	Established Established
2.	Control / Management of	CFA and GDF SUEZ -	CFA	overall risk assessment	/ Ongoing
R2.2	hot spots and fires Rigorous data collection regime required the fire	The Hazelwood ICC be established for the management on hot spots and fire outbreaks. The Hazelwood ICC	FLIR data from flights conducted provided to GDF SUEZ mine management to enable any identified hot spots to be mapped for		
31 Oct 15 31 Oct 16	suppression plan to assist in management of related fires. This to underpin the operational decision making	contain the fire management plan used during the mine fire that sectorised and provide management areas over the entire mine area	appropriate follow up action and treatment Hazelwood – GDF SUEZ Generator installed for backup power supply to provide uninhibited command centre		Ongoing
	and ultimately the success of		capacity.		Completed

	the fire suppression strategy. To supplement this level of		Signage in mine to be upgraded to better direct responders.		Completed
					Completed
	planning is the pre determined Division and		Maps to be made available at entry points		Completed
	Sector plans (including maps)		for responders		Completed
	as standard products that are		Yallourn – Energy Australia		
	available to fire crews as they		Control room maintains constant mine		Establish ad
	enter the mine in the		monitoring via CCTV.		Established
			Permanent 24/7 fire crews on shift at fire		
	response phase. This level of pre planning should be		station.		Established
	established and utilised in the		Ongoing intensive management regime in		
	management of hot spots and		place for areas of interest		Established
	any out break of fire in the		Regular TIC monitoring in place		Established
	mine. Therefore a proactive		Loy Yang – AGL		
	joint approach from GDF		Permanent 24/7 fire crews on shift		Established
	SUEZ and CFA is required to		Daily monitoring of hot spots		Established
	achieve this and should be		Technical monitoring of hot spots		Established
	actioned immediately.		Civil engineering strategy and well		
	actioned infinediately.		established access points to ensure timely		
			response to emergencies.		Established
			Anglesea – Alcoa		
			Mine Hot Coal SWI in place		Established
			Current CFA Pre Incident Plan (PIP)		Established
			Alcoa Emergency Response Plan		Established
3.	Development of	CFA -	CFA		
	Compressed Air Foam		Two concept tankers being retrofitted with	Commissioned and training	
R2.2	Systems (CAFS) -	to provide details and timelines on	CAFS capability. First unit is due for	program completed	
	Compressed Air Foam	when CFA will commission a CAFS	delivery during December 2014 and the		
31 Oct 15 31 Oct 16	Systems (CAFS) proved	appliance that will be stationed in the	second due early in 2015		Complete
31 001 16	overwhelmingly successful	Latrobe Valley, to support this plan is	Further ongoing research being conducted		
	during he February 2014 fire.	a contingency plan that considers if a	into the most appropriate unit to be		
	The 'high volume' Tasmania	new CAFS appliance was not able to	developed for mine fire response.		Pending
	Fire Service CAFS appliance	be delivered prior to December 2014	Redundancy and ongoing capacity provided		
	operated in the Hazelwood		over summer period by way of helicopter		
	coal mine and was supported		with 2650ltr water capacity and fixed wing		
	by on board technology		aircraft to be located at Latrobe Valley.		Completed
	including thermal imaging		Loy Yang – AGL		
	cameras. There is a need to		Full CAFS unit on order from Tasmania and	Launch flyer attached	
	progress the planning for		due for delivery in February 2015.	(Attach #1)	Completed
	such an appliance to be		Planned to purchase a second appliance		
	established in the Latrobe		late 2015.		In Progress

	Valley'		Familiarisation awareness and techniques		
			underway for response crews		Completed
			Anglesea - Alcoa		
			Further review risk/requirement as part of	Further review	
			overall risk assessment	risk/requirement as part of	
				overall risk assessment	Ongoing
4.	Integration of GDF SUEZ	CFA and GDF SUEZ –	Hazelwood – GDF SUEZ		
	into the Incident	Therefore there is a need to develop	Emergency Commanders and identified		
R 2.5	Management structure -	an integrated industry Incident	staff have been trained in AIIMS ICS.		Completed
	Integrated Incident	Management structure that integrates	Additional training in AIIMS has been		
31 Oct 15	Management is a key issue	GDF SUEZ into the regional	completed		
31 Oct 16 31 Oct 17	identified during the	multiagency incident management			Completed
010011	Hazelwood Mine Fire Inquiry.	team structure	Designated GDF SUEZ personnel to attend		
			Regional ICC during incidents that have		
			potential to impact the mine.		Ongoing
			GDF SUEZ to engage in all relevant		
			Incident Controller and media briefings.		Established
			Yallourn – Energy Australia		
			Level one Incident Control Centre		
			established for extreme fire danger days		Established
			7 qualified Level 2 ICs.		Established
			16 AIIMS trained personnel.		Established
			Expanding training to all AIIMS related		
			positions within incident management		
			structure		In Progress
			Introduction to AIIMS specific to mining		
			industry.		In Progress
			Loy Yang – AGL		
			Well established and equipped ICC on site.		Established
			Integrated training conducted with CFA		
			regularly.		Ongoing
			Staff trained in AIIMS.		Established
			Emergency Manager chairs CGEIG.		Ongoing
			18 nationally accredited L2 IC's on site		Established
			Pre incident response mechanisms and		
			plans in place to ensure timely activation		
			appropriate appliances 4x4 mines, pumpers		
			power station.		Established
			Activation is automated		Established
5.	Capability to respond and	Build improved practices to enhance	CFA		In Progress
<u>.</u>	- Capability to respond and	Dana improvoa practicos to critianos	····	1	iii i iogicos

	manage fires in the coal	fire response and management	District 27 to be established for all brigades	REMT – Work required on	
R 2.2	mines	capabilities in line with shortfalls identified within the Hazelwood Mine	in Latrobe City to be coordinated via a single district structure.	integrating industry into structure without over	
31 Oct 15		Fire Inquiry outcomes	single district structure.	complicating situation	
31 Oct 16		The inquity outcomes		Complicating situation	
			Aerial pumper permanently deployed to		
			Morwell Fire Station.		Established
			CAFS units see section 3 above.		In Progress
			A fixed wing aircraft and helicopter with		
			2650ltr capacity located at Latrobe Valley		
			over FDP. To be activated on FDI of 12+.		
			Deployment protocols to be defined for		
			mines.	D: 1: 107 1 100 D 11 1	Completed
			District 10 SOP 10.01 Open Cut Coal mines	District 27 draft SOP attached	
			(Brown Coal) – Management of firefighter safety has been developed, endorsed and	(Attach #2)	
			distributed to brigades. In District 9&10.		Established
			Project currently underway to review	Training package documents	LStabilisticu
			existing brown coal and open cut training	attached	
			packages.	(Attach #3, #4 & #5)	In Progress
			An initial review of current Brigade		g.ccc
			Response Tables has been undertaken.		Completed
			A review of CFA's vehicle typology for	Being reviewed	•
			response into open cut mine environments		
			is currently underway.		Pending
			Traralgon ICC to be the immediate and		
			defined ICC for this season		Established
			GDF SUEZ – Hazelwood		
			Signage in mine to be upgraded to better		0
			direct responders.		Completed
			Maps to be made available at entry points for responders.		Completed
			Wetting down of non-operational areas of		Completed
			mine on extreme fire danger days.		Established
			GDF to be present in CFA ICC during times		Lotabilorica
			of incidents that may threaten the mine.		Completed
			Additional pipe work installed on non-		2 2 3 3 4
			operational batters to provide greater		
			wetting down and firefighting capacity		Completed
			Yallourn – Energy Australia		Established

2 additional 300 litre fire response ute	
tank/pumps	
New fire service pumping system installed	
1,600L/sec dual power supply.	Established
2 X diesel standby pumps permanently	
installed in system.	Established
Latrobe River pumps, direct supply into Fire	
Service system. Pipe work upgraded	
November 2014.	Completed
Refurbished mine response trailer.	Established
2 x crane mounted spray nozzles	Established
Large volume lay flat hose 6" diameter	Established
5 additional portable spray units purchased,	
now 20 in total.	Completed
Additional steel pipe purchased for	
Township Field for installation of permanent	
droppers to lower levels.	Completed
CO Health Monitor in First Aid Centre.	Established
20 additional portable CO monitors	
procured	Completed
Additional manning resources – overburden	•
T&S operations over summer.	Established
Maps depicting all mine water points	
located at gatehouse for distribution to all	
responding appliances	Established
Loy Yang – AGL	Established
Additional fire fighting equipment placed	
online.	
External contractors engaged for additional	Established
resource capacity.	
Quick attack plans in place to enhance fast	Established
knock down capability.	
Fire response plans structured with defined	Established
trigger points which are exercised.	
Crew step ups activated in accordance with	Established
defined trigger points	
Anglesea – Alcoa	
Onsite mine equipment including dozers and	
excavators to be retained for ongoing security of	
old mine site.	Established
	20.00.000

			60,000 litre watercart to be retained		Established
			Trained ERT (Emergency Response Team)	Investigate additional coal fire	
			members within mining team	training for senior mine	Established
				operators.	/ Ongoing
			Currently have 2 CO gas detectors	Investigate the acquisition of	
				4 CO monitors (ex Pt. Henry)	Complete
6.	Operational Improvement	CFA -	CFA		Complete
"	plan (local) -	operational improvement plan for	Planning commenced on the Operational		
R 3.5	print (cour)	District 9, District 10 and	Improvement Plan including key themes		
		predetermined support brigades in	around, training and preparedness, Industry		
31 Oct 15		District 8 and other areas.	relationships, Welfare and Staging Areas		
31 Oct 16 31 Oct 17					In progress
31 001 17			Industry familiarisation sessions, including		
			tours of the open cut mines, are being		
			arranged for all brigades and groups within		
			District 9 and 10 who are first responders or		
			those who are responded when fires &		
			incidents are escalated.		On going
			Several integrated operational exercises are		
			planned to take place within the industry.		In progress
			Latrobe City Councils Municipal Fire		
			Prevention Officer is now on CGEIG.		Established
			Latrobe City Council		
			Property inspections completed, 1669 Fire		
			Prevention Notices issued.		Completed
			Monthly meetings with Energy Australia.		
					Ongoing
			Major industry inspections to take place with		
			mines, APM &HPV.		Completed
			Mapping being produced to identify risk	CFA Industry Risk	,
			areas VFRR process in use.	Management Mapping	
			· ·	Project outcomes to be	
				included in the Municipal Fire	
				Management Plan	In Progress
			Hazelwood – GDF SUEZ	Mine Fire Instructions	
			Update of Emergency Response Plan and	incorporates additional	
			Mine Fire Instructions is being finalised to	personnel for the fire	
			include additional personnel for the fire	protection duties on Extreme	Completed

			protection duties on Extreme fire danger	fire danger days.	
			days.		
			Review communications protocol to ensure		
			that during the response to a fire which is capable of impacting the community, it is		
			able to communicate messages to the		
			community via any protocol adopted		
			following a review by all agencies.		Completed
			Outcomes of VWA verification process		Completed
			being actioned by GDF SUEZ personnel		
			and external consultants for		
			implementation.		Completed
			Yallourn – Energy Australia		Completed
			Enhanced operational capability		
			incorporated in capability to respond section		
			above.		Established
			Monthly bushfire mitigation program		
			meetings conducted with CFA and Latrobe		
			City Council		Ongoing
			Loy Yang – AGL		
			Emergency Response Plan updated		
			annually		Established
			Joint training ongoing (CFA and other		
			mines).		Ongoing
			Joint inspections and familiarisation tours		
			completed regularly.		Ongoing
			Standardisation of equipment.		Ongoing
			Anglesea – Alcoa		
			Emergency Management Plan and CFA PIP		Established
			Direct 2-way radio communication between	TARP/Communication	
			Anglesea CFA and Alcoa Power Station Control	Strategy for Anglesea Alcoa	Establish i
			Room.		Established
-	Table in an all annual and a	District 40 Commented Action 2	054		/ Ongoing
7.	Training and preparedness	District 10 Suggested Action 3:	CFA	http://www.hod/lhickeris.com/c	
Ba a	- There was extensive	That a package or audio visual aids	Training video to be produced with CFA	http://youtu.be/HvoksvnQCJ0	
R2.2	discussions regarding training and preparedness.	are produced regarding brown coal fires, safety ad tactics that can be	input to provide experienced direction on		Completed
31 Oct 15	Discussion was about	distributed to all Brigades for training.	approach to mine fire fighting. Safety aspects to align with CO protocols		Completed
31 Oct 16	improving firefighter safety	Action 4 - That, at least annually,	and SOPs.		In Progress
	through partnering with the	Brigades and Groups in District 9	Induction program for relieving officers on	Coal Mine training package	
	anough partiteting with the	brigades and Oroups in District 9	mudulion program for relieving officers on	Coal wille training package	In progress

industry operators to improve	(&D10) that are likely to attend a	stations in Latrobe Valley	attached	
our members' skills and knowledge. E.g. (1)	fire in the mines review training materials/videos	Familiarisation training for brigades in	(Attach #3, #4 & #5) Coal Mine training package	
Characteristics of fires	illaterials/videos	District 9 & 10 that are likely to respond to	attached	
involving Brown Coal, (2)		the mines.	(Attach #3, #4 & #5)	In progress
Specific Open Cut mine risks		Hazelwood – GDF SUEZ	(Allacii #3, #4 & #3)	iii piogress
and (3) Potential fires and		Phoenix Rapidfire training conducted for		
risks within power stations		mine staff to best understand predictive fire		
and associated production		spread modelling to enable enhance mine		
equipment (eg) switching		emergency management planning in times		
yards, conveyers etc).		of fire threat from outside the mine.		Completed
		Training by GDF SUEZ for emergency		,
		responders to the mine.		Ongoing
		Additional Pheonix training planned for		
		completion 2015		In progress
		Yallourn – Energy Australia		
		Extensive training program conducted for all		
		relevant staff		Completed
		Training in Pheonix Rapid Fire modelling		
		completed		Completed
		Loy Yang – AGL		
		Regular integrated training sessions with		
		CFA.		Ongoing
		18 level 2 IC's and 9 ESLO's trained.		Established
		Exercising conducted annually to conform		
		with Part 6 Terrorism, Community		Establish and
		Protection Act 2003		Established
		Additional Pheonix training planned for completion 2015		In progress
		Anglesea – Alcoa		In progress
		Joint training exercises with local CFA		
		John training exercises with local of A		Ongoing
		Trained Emergency Response Team members	CFA currently reviewing	Origonig
		embedded within mine operations group and	Anglesea Emergency	
		senior earthmoving equipment operators	Management Plan and PIP	
		experienced in coal combustion elimination		
		practices.		Established
		Safe Work Instructions (SWIs) targeting hot coal	TARP/Communication	
		procedures	Strategy for Anglesea Alcoa	Established
			Further review	Established

				risk/requirements as part of overall assessment. Joint training exercises with local CFA that focus on coal fires. To be arranged following the completion of the Anglesea Emergency Management Plan and PIP review and used as an exercise to familiarise and test activities against these documents.	
					Ongoing
8.	Industry Relationship -	agencies and	ndustry facilitated through etings, workshops and field	CFA/Latrobe Industry meeting group formed. First meeting 25 June 2015. Minutes attached (Attach #6)	Ongoing
			d engagement of Taskforce ndication of relationship	,	Established
		CGEIG memb	ership and involvement.		Established
		Anglesea – A Responsibility agencies and	of all taskforce member	Continue to build through Task Force and other opportunities	Ongoing
					Complete

			Attendance and engagement of Taskforce members an indication of relationship strengths		Constitution
9.	Welfare / Staging Areas - There was extensive discussion regarding the inability of Firefighters to get access to refreshment or use of toilets at the staging area without disrobing or	Action 7 - that a 'dirty welfare area" be incorporated in any large staging area at future incidents, This aspect of be incorporated in future plans, guidelines and check lists. Action 8 - In discussions with the industry, investigate the ability for	Establishment of "dirty" welfare area within established Staging Areas will be incorporated at future incidents. This will ensure operational responders coming off the fireground for a break have ready access to welfare and refreshment facilities.		Complete In Progress
	considerable inconvenience.	mine operators to sponsor the supply of additional CO Monitors for distribution to CFA members (one or two per crew) who respond to fires involving coal. Ensuring these CO Monitors are similar in operation as those already allocated and in service to selected Brigades.	Anglesea – Alcoa Outcome from the Hazelwood Mine fire which can be incorporated into Alcoa and CFA procedures	Suggest use of Mine Workshop as 'dirty' welfare area at Anglesea and if agreed, ensure aspect written into revised PIP and Emergency Management Plan.	Ongoing
10.	Incident Naming - Again,	Action 9 - The Chief Officers need to	Anglesea – Alcoa		Origoing
	extensive discussion occurred on this matter. The	consider a new incident type messaging convention and incident	Will be guided by external emergency services.		Complete

	issue being that the incident description continued to be designated a "Bushfire" in all messaging for days when it was in fact a "Fire with hazardous materials or more accurately described a fire producing high levels of toxic smoke. This had issues for recipients of the messaging, including those accessing social media, further it provided false or conflicting information to our members who were responding (e.g. what was been described in the media and what was being provided on the pager).	descriptor to acknowledge any event which has a "hazmat" Overlay as described by the then Fire Services Commissioner in his submission to the Hazelwood Mine Fire Inquiry. Our suggestion would be either "fire with Hazardous Materials or fire producing Hazardous or Toxic Smoke". Action 10 - That the Incident be regularly checked during large scale incidents to ensure the type is correct, and corrected where incorrect for internal and external users of that information.	Review any outcomes from the Latrobe Valley Task Force in this regard and adopt, if appropriate, for consistency	Complete
11.	Hazard Removal -	Action 11 - That legislation be	Local Initiatives Undertaken	Complete
	Discussion occurred regarding the inability of the	modified to allow statutory authorities to be covered by legislative hazard	Hazelwood – GDF SUEZ Undertake the rehabilitation set out Exhibit	
	MFPO to mandate or issue	removal processes.	88 (Statement of James Faithful, annexe 5).	
	directions to statutory bodies in the vicinity of Open Cuts		Clay capping to be completed by 31 December 2014. Rehabilitation of the	
	with respect o lands		nominated 9 hectare area on the Northern	
	administered by statutory		Batters.	Completed
	authorities. For example:		Removal of vegetation on the worked out	
	SEC land		northern batters of the mine to reduce fire risk commencing in the areas closest to	
			Morwell.	Completed
			Yallourn – Energy Australia	•
			Township Field – Mineral earth breaks	Completed
			East Field extension along Latrobe Road –	
			Dozing overburden over worked out coal slopes commencing mid November 2014.	Completed
			Slashing within mine commenced 10	Completed
			November.	Ongoing
			Slashing around mine commencing in	
			November, areas as guided by CFA curing	Ongoing

		maps.	
		Grading program (Nov/Dec) for mine perimeter, worked out areas of Township field and Witts Gully bush area.	Completed
		Loy Yang – AGL Fire prevention management plan completed for management of land surrounding the mine for management of vegetation types and fuel reduction.	Completed
		Slashing ongoing.	Ongoing
		Grazing program in place.	Established
		Mineral earth works ongoing.	Ongoing
12.	Others		