
TRANSCRIPT OF PROCEEDINGS

The attached transcript, while an accurate recording of evidence given in the course of the hearing day, is not proofread prior to circulation and thus may contain minor errors.

2014 HAZELWOOD MINE FIRE INQUIRY

MORWELL

TUESDAY, 17 JUNE 2014

(15th day of hearing)

BEFORE:

THE HONOURABLE BERNARD TEAGUE AO - Chairman

PROFESSOR EMERITUS JOHN CATFORD - Board Member

MS SONIA PETERING - Board Member

MERRILL CORPORATION AUSTRALIA PTY LTD
4/190 Queen Street, Melbourne

Telephone: 8628 5555
Facsimile: 9642 5185

1 MS RICHARDS: Good morning. Now we come to the culmination
2 of the public hearing process. After three weeks of
3 evidence this is the point where Counsel Assisting and
4 the parties' representatives make submissions to you
5 about what is to be made of all of the evidence that
6 we've heard over the last three weeks and what
7 recommendations the Board should make for future
8 improvement.

10.03AM

9 Just to outline the procedure over the next two
10 days: I wrote to representatives appearing for the
11 parties in the course of last week indicating that oral
12 submissions would be today and tomorrow and that
13 Counsel Assisting proposed to address the three themes
14 that have been addressed in evidence and, under each
15 heading, to identify commendations, criticisms and
16 recommendations to be made and that is the form that
17 Counsel Assisting's submission will take this morning.

10.03AM

10.03AM

18 I also asked the parties to indicate to me whether
19 they wished to make written or oral submissions today
20 and tomorrow and have indicated to all of the parties
21 that, should anything arise in the course of the next
22 two days that they feel they have a need to respond to,
23 that they will have an opportunity to do that in
24 writing after the hearing has concluded tomorrow.

10.04AM

25 The proposed order of submissions over the next
26 two days is, Mr Rozen and I will present our
27 submissions to you this morning and it's our intention
28 to complete that by lunchtime. Then we will hear from
29 Environment Victoria who were granted leave to appear
30 in relation to the issue of mitigation and prevention
31 only and they've indicated that they will need about

10.04AM

10.04AM

1 45 minutes.

2 We will then hear from the United Firefighters
3 Union. Mr Marshall of the Union will be attending to
4 make their submissions this afternoon. Again, he's
5 indicated that he will need about 45 minutes in 10.05AM
6 relation to the issue of firefighter safety which is
7 the issue on which they were granted leave to appear.

8 Then GDF Suez will make its submissions, and
9 Ms Doyle's indicated that she needs about two hours to
10 do that and. Likewise, Dr Wilson for the State has 10.05AM
11 indicated that he will need about two hours to present
12 the State's final submissions.

13 It's not proposed that Counsel Assisting make any
14 reply. The opportunity over the next two days is as
15 much for the parties to present the Board with their 10.05AM
16 submissions about findings and recommendations that
17 should be made and for the Board to have an opportunity
18 to interact with the parties' representatives and ask
19 questions and have those questions responded to in this
20 public process. 10.05AM

21 There's only one caveat to that proposed outline.
22 It is conceivable that the State may make some
23 submissions that are adverse to GDF Suez. I don't know
24 if that will occur. If it does, then Ms Doyle has
25 indicated that she may wish to make some oral 10.06AM
26 submissions after the State has made submissions
27 tomorrow and, if time permits, then it would be
28 desirable for that to happen. But, in any event, there
29 will be an opportunity to make written submissions
30 about any adverse comment that's made by the State. 10.06AM

31 That's the proposal. If we all stick to the time

1 limits that we've indicated, we should finish
2 comfortably by 3 p.m. tomorrow.

3 The structure of Counsel Assisting's submissions
4 will be as follows: I will address the origins of and
5 response to the fires and I will also address issues of 10.06AM
6 health and environment that were explored during the
7 second week of the hearing.

8 Mr Rozen will deal with the discrete topic of
9 firefighter safety that we dealt with in week 1 but
10 which also has a lot of connections with the health 10.07AM
11 issues raised in week 2 and he will then finish by
12 dealing with mitigation and prevention. Under each of
13 those headings we will put to the Board a number of
14 commendations that the Board, we submit, can make based
15 on the evidence it has heard, a number of criticisms or 10.07AM
16 adverse findings that we propose that the Board should
17 make in its report, and a number of recommendations
18 that we propose the Board should consider making.

19 Before I move into those four areas of discussion
20 or the two that I'm responsible for this morning, there 10.07AM
21 is one over-arching submission that I make at the
22 outset and that is that, in response to evidence from a
23 number of witnesses that the fire was unprecedented,
24 that it was unpredictable, that it could not have been
25 foreseen: The fire was unprecedented in terms of its 10.08AM
26 size and its impact on the community of Morwell and the
27 broader Latrobe Valley; in every other respect the fire
28 was not unprecedented. It was not the first time that
29 a bushfire, or a rural fire as Mr Incoll described it,
30 had entered an open cut coal mine. It was certainly 10.08AM
31 not the first time that fire in the landscape had

1 threatened an open cut coal mine. All of the fire
2 planning documents that are in evidence identify
3 specifically the risk of an external fire entering an
4 open cut coal mine and propose various treatments or
5 measures to control that risk.

10.09AM

6 With respect to those who were surprised by the
7 entry of a rural fire into an open cut coal mine, it is
8 in this landscape a very obvious risk. This is a
9 notoriously bushfire prone part of Victoria and coal
10 burns, that's why it is mined. In our submission, the
11 Board should not be deterred from a close examination
12 of risk management practices and response to fire by
13 evidence that suggests that this was somehow a
14 surprising event. It was not, it was an entirely
15 foreseeable event and it was one that should have been
16 planned for.

10.09AM

10.09AM

17 Moving then to the first theme, the origins of and
18 response to the fires. What I propose to do under this
19 heading is to set out a number of basic factual
20 findings that the evidence permits the Board to make
21 about the origins of the fires that took hold in the
22 mine and the response to them. I will do that in a
23 fairly neutral way to begin with and then I will come
24 in more detail to some commendations that we submit can
25 be made and then some criticisms that we submit should
26 be made.

10.10AM

10.10AM

27 It was clear by the Friday, 7 February, which was
28 the fifth anniversary of Black Saturday in 2009, that
29 the conditions forecast for the weekend, and in
30 particular for Sunday the 9th, were going to be the
31 worst since Black Saturday. That was well-known, it

10.11AM

1 was well publicised and, on the strength of an extreme
2 fire weather forecast, the Chief Officer of the CFA
3 declared a total fire ban, not only for the Saturday,
4 but also for the Sunday.

5 Also on the Friday, the evidence reveals, a fire 10.11AM
6 started at Hernes Oak at about mid-afternoon. Hernes
7 Oak, as we now know from our familiarity with local
8 geography, is roughly to the northwest of Morwell and
9 it was a fire that was responded to quickly by the CFA,
10 was contained but was never brought under control; 10.11AM
11 certainly not on that Friday or over the weekend.

12 In relation to the origins of the fire, there is
13 in evidence a report prepared by a CFA Investigator
14 that concludes that the fire was caused by inadequate
15 control of a camp fire. Notwithstanding that 10.12AM
16 conclusion, the evidence from Victoria Police in the
17 form of Detective Inspector Roberts' affidavit, is that
18 Victoria Police regard the fire as suspicious and it is
19 the subject of an ongoing investigation. What police
20 can definitely tell us and have told us is that they 10.12AM
21 have excluded both lightning strike and power asset
22 failure as a cause of the fire, so that is where we
23 must leave the evidence about the origin of the fire;
24 the precise origin of it is a matter still being
25 investigated by police. 10.12AM

26 The Hernes Oak Fire was managed locally on the
27 Friday but on Saturday the 8th control of it was
28 transferred to the Traralgon Incident Control Centre
29 which is a Level 3 Incident Control Centre. That
30 transfer had the effect that the fire was then regarded 10.13AM
31 as a Level 3 fire.

1 Incident Controller Laurence Jeremiah gave
2 evidence about his appreciation of the risk posed by
3 that fire and his determination to apply an aggressive
4 strategy to it during the course of the Saturday. By
5 the evening of 8 February the fire was contained but 10.13AM
6 was still burning within its perimeter.

7 The Incident Management Team at Traralgon, and in
8 particular Mr Jeremiah, was acutely aware of the risk
9 that the fire would pose to Morwell and also to the
10 Yallourn and Hazelwood Open Cut Mines should it break 10.13AM
11 its containment lines the following day. Based on that
12 assessment, Mr Jeremiah asked his planning officer,
13 Mr McHugh, to provide Essential Gippsland Essential
14 Industries Group with Phoenix prediction mapping that
15 showed the scenario that might occur if the fire did 10.14AM
16 break containment lines. That was done by providing at
17 least one prediction map to Mr Demetrios, who's the
18 Chair of the Central Gippsland Essential Industries
19 Group. The Board will remember the evidence about the
20 role of the Central Gippsland Essential Industries 10.14AM
21 Group as a conduit for information between essential
22 industries, including the power stations and the open
23 cut mines in the Latrobe Valley and the Emergency
24 Services.

25 Mr Demetrios forwarded one Phoenix prediction map 10.14AM
26 to Mr Roach, who is the Security and Emergency Services
27 Manager at Hazelwood at about 4.30 on the Saturday
28 afternoon, and that map indicated the potential for
29 fire to spread into the northern batters of the mine by
30 shortly before 2 a.m. on the Monday morning. I will 10.15AM
31 return to the significance of that communication later

1 on.

2 It's a matter of record now that the weather
3 conditions on 9 February were almost exactly as
4 forecast; it was hot, it got hotter, it was windy, it
5 got windier, and the relative humidity was extremely 10.15AM
6 low. And critically, from 1 o'clock the wind moved
7 around to the west and then at approximately 1.40, as
8 nearly as the Bureau of Meteorology can place it, a
9 strong southwesterly wind change reached Morwell. That
10 wind blew all afternoon with very strong gusts and 10.16AM
11 didn't begin to abate until well into the evening.

12 As we've heard, there was another fire that broke
13 out mid-morning on Saturday the 9th, the Jack River
14 Fire that broke out near Yarram. That was a fire that
15 was managed by the Traralgon ICC and absorbed a good 10.16AM
16 deal of its resources and attention. The fire at one
17 stage, before the wind change, was threatening the
18 township of Yarram.

19 Closer to Morwell, at about quarter past 1 in the
20 afternoon, the Hernes Oak Fire did break its 10.16AM
21 containment lines, still under the influence of strong
22 northwesterly wind. Its broke its containment lines in
23 the northeast rather than the southeastern corner of
24 the fire which is where firefighters had been
25 concentrating their efforts. Having done that, it 10.17AM
26 moved very quickly towards Morwell and towards the
27 Hazelwood Open Cut Mine, so quickly that it was not
28 safe for firefighters to attack the fire directly.

29 Not long afterwards, the wind changed redirecting
30 the flank of the fire towards Morwell and, as we've 10.17AM
31 heard, creating a spot fire on the other side of

1 Morwell that eventually threatened the APM at Maryvale.
2 That fire involved at least one timber plantation, and
3 you will recall the photographs that were presented
4 during the Phoenix presentation that showed a large
5 smoke plume that was bent over by the strong winds. 10.18AM

6 To compound the threat posed by the Hernes Oak
7 Fire, at about 1.30 another fire, or should I say
8 fires, ignited at Driffield on the Strzelecki Highway.
9 In relation to the origin of this fire, which is known
10 as the Driffield Fire, police have told us that they 10.18AM
11 believe this fire to have been deliberately lit and it
12 is the subject of an arson investigation, and again,
13 that's not an area into which the Board need go
14 further. Police have been able to exclude both
15 lightning strike and power asset failure as a cause of 10.18AM
16 that fire and it remains under police investigation.

17 That fire started almost at exactly the time that
18 the wind change came through and, under the influence
19 of very strong southwesterly winds, that fire took off
20 in the direction of the open cut Hazelwood Mine and the 10.19AM
21 power station. It was responded to very swiftly by
22 both the CFA and the mine's firefighting resourcing
23 and, as things transpired, the fire front did not pass
24 over the Morwell River diversion, it acted as a very
25 effective fire break and the fire was pulled up at that 10.19AM
26 point.

27 Fire was first observed inside the mine, and of
28 course it's that fire that the Inquiry is most
29 interested in, just before 2 o'clock that afternoon.
30 The first direct evidence of fire that the Inquiry has 10.19AM
31 is from James Mauger who saw smoke in the southeastern

1 batters, his designation, at about 5 to 2. Shortly
2 after that, at about 2.30, he saw some smoke on the
3 northern batters. Shortly after 2.15 David Shanahan
4 observed fire on the floor of the mine and also fire on
5 two, possibly three, levels of the northern batters; or 10.20AM
6 at least that had escalated to two, possibly three
7 levels by just before 3 o'clock.

8 As the day went on the fires in the southeastern
9 batters grew and extended to the eastern batters and
10 the fire in the northern batters involved all of the 10.20AM
11 levels. The fire in the southeastern batters in the
12 floor of the mine eventually merged and became one area
13 of fire that had to be suppressed later on.

14 In relation to the cause of the fires in the mine,
15 our submission is that the Inquiry can make the 10.21AM
16 following findings: The fires in the mine started, in
17 our submission, as a result of ember throw from the
18 Hernes Oak Fire. It is possible, but much less likely
19 that the fires were ignited by ember throw from the
20 Driffield Fire. Although this suspicion was raised in 10.21AM
21 numerous submissions to the Inquiry, there is no
22 evidence before the Inquiry that the fires,
23 particularly the fire in the northern batters, started
24 from internal sources.

25 Notably, there is very clear evidence before the 10.21AM
26 Inquiry that the fire in the northern batters started
27 about 300 metres to the west of the fire hole that had
28 been clay capped and has been referred to in evidence
29 as "Old Faithful". You will recall a very clear
30 photograph that was taken by Mr Shanahan that shows the 10.22AM
31 relative positions of Old Faithful and the beginnings

1 of the fire in the northern batters. That submission
2 is based on the direct evidence of witnesses, in
3 particular Mr Mauger and Mr Shanahan, but is confirmed
4 by the Phoenix simulation that was presented to the
5 Board on the second day of the hearing that indicates 10.22AM
6 that the most likely source of ignition was ember throw
7 from the Hernes Oak Fire.

8 Importantly, there is no clear evidence before the
9 Board that fire established in the west field of the
10 mine on 9 February. There was a small fire during the 10.22AM
11 morning that was reported to WorkSafe, and so we have
12 some quite specific details about that fire that was
13 caused by a mechanical fault on an idler, but that fire
14 was rapidly extinguished in the morning and didn't form
15 part of the matrix of events that afternoon. 10.23AM

16 There is a secondhand report in Mr Shanahan's
17 statement of fire in the west field, but no direct
18 observation, and it is not possible to be certain that
19 there was any outbreak of fire in the west field during
20 the course of the afternoon. What we do know is that, 10.23AM
21 by the time the CFA took over and developed its
22 Incident Action Plan from the next morning, there was
23 no fire in the west field to contend with; anything
24 that did start, was clearly put out quickly.

25 With fire in several worked out areas of the mine, 10.23AM
26 at shortly before 3 o'clock Mr Harkins declared a
27 full-blown emergency and asked Mr Prezioso to assume
28 the role of Emergency Commander, which he did at about
29 3.20, formally activating the Emergency Control Centre
30 at the mine. 10.24AM

31 In terms of the mine's firefighting resources and

1 their response to the fire, they were understandably
2 initially focused on the western perimeter of the mine
3 dealing with the very direct threat of the Driffield
4 Fire advancing towards the operational area of the
5 mine. Mine personnel were able to reach both the fire 10.24AM
6 in the southeastern batters and the fire in the
7 northern batters at a very early stage but, as
8 described particularly in Mr Mauger's statement, they
9 were unable to extinguish either of those fires.

10 Mr Prezioso, once he took control as Emergency 10.25AM
11 Commander, maintained the focus on the western
12 perimeter of the mine and also brought in a crane
13 monitor in the southeastern batters in an attempt to
14 prevent that fire from spreading to the west towards
15 important infrastructure essential to the mine and to 10.25AM
16 the power station's operations.

17 Shortly after that Mr Shanahan turned on sprays in
18 the northern batters; that created a very effective
19 water barrier, and again, contained the fire from
20 spreading towards the operational face of the mine and 10.25AM
21 the western end of the northern batters.

22 Although it's not entirely clear how they found
23 out about it, by 2.30 the Traralgon ICC was working on
24 the basis that there was fire in the mine. Mr Roach's
25 evidence was that he spoke with Mr McHugh at the ICC at 10.26AM
26 about 2.45 and told him that there was fire spotting
27 inside the open cut in addition to talking about the
28 situation with the Driffield Fire. By that time the
29 resources available to the Traralgon ICC were heavily
30 committed to the Jack River Fire and also the Hernes 10.26AM
31 Oak Fire that was threatening lives and properties in

1 the west of Morwell and later was creating difficulty
2 on the other side of Morwell near the APM Mill at
3 Maryvale, and also of course the Driffield Fire.

4 The evidence indicates that the only Fire Service
5 resources that were deployed at the mine during the 10.26AM
6 afternoon of 9 February was an aeroplane and a
7 helicopter that dropped some loads of water and
8 retardant on the fire in the northern batters.

9 At some stage in the evening, probably between 6
10 and 7, the fire ran out of the eastern batters onto the 10.27AM
11 grassed area at the top of the mine and threatened
12 Energy Brix and also damaged the conveyor that supplies
13 Energy Brix. There was at that point CFA assistance
14 deployed initially to Energy Brix but then to the mine.
15 As best we can pinpoint, those resources arrived at the 10.27AM
16 gate, and Mr Lalor was among that strike team, at about
17 6.45. There had been another strike team that attended
18 earlier in the afternoon but, as soon as they reported,
19 they were called away to deal with the Driffield Fire.

20 At about the same time, again we don't know the 10.27AM
21 exact time, but it was between about 5 and about 7 in
22 the evening, the mine lost power. The reason for that
23 was that the fire had burned poles for two separate
24 SP AusNet lines that run down the northern batters, and
25 they supply the mine's power including the power for 10.28AM
26 the dredger and the conveyor belts from mains power
27 external to the mine. Without power, the pumps that
28 pressurised the Fire Services pipe network couldn't
29 operate and water supply was reduced at best to a
30 trickle, and of course as dark fell the Emergency 10.28AM
31 Command Centre was unable to see what was going on.

1 By that stage there was not much that could be
2 done to suppress the fires in the batters and efforts
3 focused on asset protection around the perimeter of the
4 mine, particularly on the northern batters and the
5 eastern batters near Energy Brix. 10.29AM

6 The CFA arrived with more resources in the course
7 of the evening and formally took control of the fire at
8 about 10 o'clock that night. Mr Lockwood of the CFA
9 became the Division Commander. The Incident Control
10 Centre was still at that stage based in Traralgon. The 10.29AM
11 Board will recall the handwritten Incident Action Plan,
12 that is a very clear summary of how things stood at
13 daybreak on 10 February.

14 There was a separate Incident Management Structure
15 fairly rapidly set up to deal with what was clearly 10.30AM
16 going to be a long-term fire and that was in place from
17 11 February. The Incident Controllers at various
18 stages for the fire are identified in paragraph 24 and
19 we've received evidence from a number of them.

20 The initial suppression strategy that was adopted 10.30AM
21 focused very much on containment and preventing the
22 fire from spreading and affecting any critical
23 infrastructure. It's fair to say that little, if any,
24 progress was laid in the first week actually putting
25 out the fire. 10.30AM

26 There was a shift in gears, if you like, on
27 13 February when the State Controller, Mr Lapsley,
28 declared that in addition to it being a fire it was a
29 HAZMAT incident and that was largely due to the carbon
30 monoxide that was being emitted, threatening both 10.30AM
31 firefighters and the broader community.

1 Over the next week a much more sophisticated
2 suppression strategy was developed and applied steadily
3 over the next month. The Board members will recall the
4 evidence of Mr Barry who described the process as like
5 eating an elephant and described the six stages that he
6 went through or that the Incident Management Team went
7 through with each 100 metre section of the elephant.

10.31AM

8 During that long attempt to bring the fire under
9 control and eventually extinguish it altogether, the
10 weather continued to be on occasions hot and dry and
11 there were a number of forecast spike days, as the
12 Incident Controllers referred to them. In addition to
13 suppressing the fire, it was also necessary to plan on
14 those days to prevent the fire from spreading.

10.31AM

15 Mr Barry gave evidence about the lengths that were
16 taken, particularly on 25 February, to prevent fire
17 from spreading out of the worked out areas of the mine
18 towards infrastructure and on 25 February towards the
19 power station and the coal bunker. That planning was
20 effective and enabled the spread fire to be suppressed
21 almost immediately.

10.32AM

10.32AM

22 There was a very effective working relationship
23 established between the Fire Services and the mine
24 personnel as the fire fight went on. Mr Dugan
25 described this in some detail in his evidence. The
26 efforts of the mine personnel in large part were taken
27 up with laying additional pipes to supplement the
28 existing Fire Services network. Mr Dugan described the
29 liaison arrangements and the regular meetings that took
30 place between him and those responsible for the fire
31 fight at the mine and at the Incident Control Centre.

10.32AM

10.33AM

1 What was notable from that evidence, however, is that
2 the mine and the Fire Services maintained parallel
3 Incident Management Teams throughout that period,
4 although there was very close liaison between them.

5 Two significant dates of course are 10 and 10.33AM
6 25 March. On 10 March the fire was declared controlled
7 in that it was no longer spreading and sufficient
8 resources were on hand to prevent it spreading, and
9 then on 25 March it was declared safe. Mr Lapsley
10 explained that that means that the fire is out and it 10.34AM
11 won't create smoke although, it being a brown coal
12 mine, there may remain hot spots or areas of heat that
13 may flare up from time to time.

14 Moving now to the commendations that arise out of
15 that basic factual history, and of course there's a 10.34AM
16 great more detail in the evidence that the Board may
17 include in its report, we come to the commendations. I
18 just note at this stage that natural justice or
19 fairness requires that parties be given notice of
20 potential adverse findings that may be made against 10.34AM
21 them and that has the sometimes undesirable effect of
22 requiring us to focus on the negative, but there is
23 much that can be said that is positive about both the
24 preparation for 9 February and the response to the
25 fires around and in the mine. 10.35AM

26 The first thing that can be said is that the Fire
27 Service were generally very well prepared for the
28 extreme fire weather conditions on 9 February and, in
29 particular, the Traralgon ICC was established with an
30 experienced Level 3 Incident Controller in place and 10.35AM
31 almost a full complement of personnel. It was already

1 managing a fire in the Hernes Oak Fire, but the state
2 of readiness contrasted very favourably with the state
3 of unreadiness that the Bushfire Royal Commission
4 commented on in some instances on Black Saturday.

5 The CFA and the mine personnel responded very 10.35AM
6 rapidly to the Driffield Fire, and between them, on
7 either side of the Morwell River diversion, they were
8 able to prevent the fire from crossing the Morwell
9 River diversion and entering the operating area of the
10 mine. It could indeed have been a great deal worse had 10.36AM
11 that fire not been pulled up when and where it was.

12 While fire did take hold in the worked out
13 batters, there were effective steps taken by mine
14 personnel to prevent the fire from spreading westwards
15 towards the operating face of the mine and critical 10.36AM
16 mine infrastructure. Again, it could have been a lot
17 worse than it was had those steps not been taken.

18 Once the Hernes Oak Fire escaped its containment
19 lines, the CFA's response was rapid and effective and
20 there were, critically, no lives lost in the west of 10.36AM
21 Morwell when the potential for loss of life was clearly
22 there.

23 The Board can find, in our submission, that the
24 allocation of resources in the Latrobe Valley by the
25 Traralgon ICC was consistent with the State 10.37AM
26 Controller's intent or the strategic priorities that
27 were set by Mr Lapsley and explained in his evidence
28 that prioritises the protection and preservation of
29 life over the protection of critical infrastructure and
30 community assets. 10.37AM

31 Mine personnel worked hard and in extraordinarily

1 difficult conditions on the evening of 9 February to
2 restore power, which was not only important to enable
3 the fire fight to continue, but was important to enable
4 the mining of coal and the production of electricity to
5 continue. The achievement of doing that in the 10.37AM
6 conditions that they faced is not to be underestimated.
7 Also not to be underestimated is the fact that GDF Suez
8 was able to maintain power production at its power
9 station throughout the entire incident.

10 The fire, however, was vast and very difficult to 10.38AM
11 extinguish having, as it did, an almost inexhaustible
12 supply of fuel and the suppression strategy that was
13 developed and implemented is also to be commended. The
14 fire had the potential to burn for a great deal longer
15 than six weeks and it is to the credit of all of those 10.38AM
16 involved that it was controlled as soon as it was.

17 The other aspect of the fire fight that deserves
18 special mention is the very careful planning and
19 placing of resources for the forecast spike days; that
20 prevented fire spreading further on those days, and in 10.39AM
21 particular on 25 February, prevented fire from entering
22 the coal bunker and threatening the power station. So
23 there is much that can be commended in the preparation
24 and response to the fires on 9 February but there are
25 also a number of things that could have been done 10.39AM
26 better.

27 The first of the criticisms identified by Counsel
28 Assisting relates to the Fire Service's preparation.
29 Mr Jeremiah was acutely aware of the risk posed by the
30 Hernes Oak Fire on 8 February and, in anticipation of 10.39AM
31 the weather conditions forecast for the following day,

1 he requested some additional resources; three strike
2 teams and also a number of aircraft. Rather than three
3 strike teams, two were made available but, more
4 importantly, the additional aircraft that he requested
5 on the afternoon of 8 February didn't arrive in the 10.40AM
6 Latrobe Valley until about noon the following day.
7 That meant, in effect, that he was not able to use
8 those resources to attack the Hernes Oak Fire and we
9 will never know whether those resources may have
10 assisted in containing that fire, but it is regrettable 10.40AM
11 that, having identified the need for those resources,
12 acutely aware of the risk that the fire posed to both
13 Morwell and critical infrastructure, that those
14 resources were not in place and able to be used even on
15 the evening of 8 February. 10.40AM

16 The other criticism that needs to be made of the
17 Fire Services preparedness is that, contrary to joint
18 Standard Operating Procedure 2.03 which deals with
19 readiness arrangements for Incident Management Teams,
20 there was no base Incident Management Team in place at 10.41AM
21 the Yarram Incident Control Centre. As events
22 transpired, there was a fire that would have been
23 managed from Yarram had there been an IMT in place
24 there; the Jack River Fire. That fire was managed from
25 the Traralgon ICC and necessarily diverted a good deal 10.41AM
26 of its attention that was required to deal with the
27 developing situation around Morwell.

28 Had there been a base IMT in place at Yarram, it
29 wouldn't have created additional resources to respond
30 to the fires in and around the Latrobe Valley; there 10.41AM
31 still would have been that constraint on their

1 response, but it would certainly have enabled
2 Mr Jeremiah and his team to focus on the very complex
3 situation that was developing around Morwell in the
4 course of that afternoon more than they were able to
5 do.

10.42AM

6 The next series of criticisms is directed at the
7 mine and those who were responsible for its management.
8 In our submission, personnel at the mine did not
9 sufficiently appreciate the very grave risk that was
10 posed to the mine by the Hernes Oak Fire burning to its
11 northwest and the extreme fire weather predictions that
12 were forecast for the Sunday. Instead of planning for
13 the worst, they hoped for the best.

10.42AM

14 There is repeated in the evidence of GDF Suez
15 witnesses an air of injured surprise that this should
16 have happened because it had never happened in their
17 experience. As I submitted at the outset, it was a
18 risk that was entirely foreseeable in a general sense,
19 and in the conditions that prevailed on the Saturday
20 evening it was a very real risk indeed.

10.42AM

10.43AM

21 The mine fire preparedness and mitigation plans
22 which are supposed to be put in place for days of high
23 fire danger had been prepared on the Friday morning and
24 had not been updated to include the rather critical
25 fact that there was a fire then burning to the
26 northwest of the mine.

10.43AM

27 Despite having been provided with a Phoenix
28 prediction map on the Saturday afternoon that indicated
29 the potential for fire to reach the northern batters of
30 the mine by 2 a.m. on the Monday, Mr Roach, the
31 nominated Emergency Services Liaison Officer, didn't

10.43AM

1 pass that information on to anyone at the mine who was
2 responsible for fire preparation or response. He
3 didn't pass it on to Mr Shanahan or to Mr Faithfull,
4 saying that he preferred to see what would eventuate
5 the following day.

10.44AM

6 He didn't obtain updated information either from
7 the Central Gippsland Essential Industries Group,
8 although he did have a discussion with Mr Demetrios the
9 following morning, or directly from the Traralgon ICC.
10 He had no direct contact with the Traralgon ICC until
11 after the fires were well alight.

10.44AM

12 So while being critical of GDF Suez for not
13 appreciating the significance of that Phoenix
14 prediction map, it also needs to be said that that
15 information could have been provided to it in a more
16 helpful way. The map that was actually provided to
17 Mr Roach appears to have been the least helpful of the
18 three that were available to the Traralgon ICC and it
19 would clearly have been useful for Mr Roach and for
20 anyone else looking at that information to have had
21 some explanation of its significance; for example, that
22 it was a scenario, the events that the scenario was
23 based on, the fact that the scenario might be different
24 in the event of different weather conditions or in the
25 event of a different breakout of the Hernes Oak Fire.

10.44AM

10.45AM

10.45AM

26 That also highlights the dangers of relying on
27 indirect means of communication at times where there is
28 a very real threat looming, because of course passing
29 the information through a third party does create the
30 risk that a message will not be clearly understood. Of
31 course, the Board's not heard evidence from either

10.45AM

1 Mr McHugh or from Mr Demetrios. Although, Mr Demetrios
2 was put on notice by us of the mentions of him in the
3 evidence and we've not heard further from him, so the
4 Board's unable to make detailed findings about which
5 individuals bear responsibility for what appears to 10.46AM
6 have been sub-optimal communication of risk, but our
7 submission remains that the mine, having been given
8 this piece of information, this prediction map, should
9 have appreciated the grave risk that it faced and
10 should certainly have been more proactive about finding 10.46AM
11 out what the prediction map signified.

12 The next criticism to be made of the mine's
13 preparedness is that it did not pre-populate its
14 emergency command structure in anticipation of a fire.
15 The Board will recall that the mine's Emergency 10.47AM
16 Response Plan nominates a number of Emergency
17 Commanders, ranging from the Mine Director to the Shift
18 Supervisor for the 2x12 shift, which is essentially the
19 supervisor of the people who are mining the coal.

20 None of the senior mine personnel who were 10.47AM
21 designated as Emergency Commander were on site when
22 fire broke out. All of them were away from Morwell:
23 Mr Wilkinson was in Queensland; the acting Mine
24 Director, Mr Faithfull, was in Inverloch; Mr Dugan had
25 gone to Mallacoota; and Mr Kemsley, the Technical 10.47AM
26 Compliance Manager, was not on site either. That left
27 the most junior in the mine's management hierarchy, Ian
28 Wilkinson, the shift supervisor, as the only nominated
29 Emergency Commander on site. He obviously had
30 operational responsibilities on that day and there's no 10.48AM
31 evidence to suggest that he actually assumed the role

1 of Emergency Commander at any time on the afternoon of
2 9 February.

3 That state of readiness is to be compared with the
4 Traralgon ICC which was in place with almost a full
5 complement of people in all of the IMT roles, with an 10.48AM
6 experienced Incident Controller leading that team. It
7 is also to be contrasted with the mine's state of
8 readiness on an earlier occasion when Mr Prezioso was
9 the Emergency Commander, an occasion of protest outside
10 the front gates of the Hazelwood Power Station, which 10.48AM
11 was an incident that, in our submission, posed a much
12 less grave threat to the operations of the mine and the
13 power station, and yet there was Mr Prezioso already in
14 place in anticipation of things not turning out well.

15 That lack of preparedness meant that, when fire 10.49AM
16 did break out in the mine on the afternoon of the
17 Sunday, mine personnel were essentially caught
18 flat-footed and that explains why, in our submission,
19 the implementation of the Emergency Response Plan was
20 so slow. 10.49AM

21 Fire had been burning in the mine since just
22 before 2 o'clock on the earliest witness's account, but
23 the Emergency Response Plan was not implemented until
24 3.20, and only then after somebody who really sits
25 outside the emergency command structure, Mr Harkins, 10.49AM
26 had taken control and declared a full-blown emergency.

27 Even then, after the Emergency Response Plan had
28 been activated and the Emergency Command Structure was
29 in place, no one thought to take the basic step of
30 checking whether the CFA had been notified by calling 10.50AM
31 000. It is absolutely plain in both the mine fire

1 instructions and in the emergency response plan that
2 that is the first step to take and it was not taken.

3 The next two criticisms both relate to
4 infrastructure at the mine that was critical to the
5 fire suppression effort. There was no backup power 10.50AM
6 supply at the mine when power was lost. Without power,
7 the Fire Services water system was reduced to a trickle
8 and was essentially ineffective until power was
9 restored, and the Emergency Command Centre was in
10 darkness, had no access to working computers or to 10.51AM
11 printers.

12 There is a certain irony in a power generator
13 being without power during a critical incident and it
14 is something that is addressed in the recommendations
15 that I will come to shortly. 10.51AM

16 The other criticism is that the efforts to
17 suppress the fires, both early on and as the fire
18 continued, were hampered by limited reticulated water
19 in the worked out batters of the mine. As Mr Polmear
20 explained to the Board last week, pipes were removed 10.51AM
21 between the mid-1990s and 2007 and were not replaced.
22 There is a very close correlation between the pipes
23 that were removed during that period and the new pipes
24 that were laid during the fire fight.

25 Moving to the recommendations that we submit 10.52AM
26 should be made in response to those criticisms, or
27 indeed observations: The first of those is that for
28 future incidents the mine and the Fire Services should
29 operate integrated Incident Management Teams which
30 incorporate both the Emergency Services personnel and 10.52AM
31 the Hazelwood personnel in one Incident Management Team

1 responding to an incident.

2 There are two things we submit should happen to
3 bring that about: The first is that the Emergency
4 Management Commissioner and the CFA should work with
5 GDF Suez, and also other essential industry 10.53AM
6 participants - this could well have happened in another
7 open cut mine or in another essential industry run by
8 another private operator - to implement the
9 Australasian inter-service incident management system
10 or AIIMS which is in use by Fire Services here in 10.53AM
11 Victoria and across Australia and has proved to be a
12 very useful incident management system allowing
13 interchangeability of personnel from a whole range of
14 different settings in one integrated Incident
15 Management Team. Then, to enable that to happen, GDF 10.53AM
16 Suez should ensure that those people who are nominated
17 in its Emergency Response Plan as Emergency Commanders
18 should undergo incident management training to achieve
19 Incident Controller accreditation; not necessarily to
20 Level 3 but at least a basic level of Incident 10.54AM
21 Controller accreditation so that they achieve
22 proficiency in AIIMS and can manage an incident team in
23 response to an incident at the mine or at the power
24 station.

25 The Board will appreciate, from having seen the 10.54AM
26 evidence of Mr Jeremiah, Mr Barry and Mr Haynes, that
27 incident management is a skill; it is not just
28 something that can be done applying common-sense and
29 management experience, and it is a skill that no doubt
30 can partly be learned by experience but also benefits 10.54AM
31 from some formal instruction and, in our submission,

1 this is an investment that GDF Suez and indeed any
2 operator of essential industry should make in its
3 staff.

4 CHAIRMAN: Does that involve the further step of saying that
5 the system should provide for the personnel at GDF Suez 10.54AM
6 to be integrated so that, when the fire agencies take
7 over, the personnel are treated as part of that team
8 rather than two teams working together?

9 MS RICHARDS: That is the intent of the proposed
10 recommendation. 10.55AM

11 CHAIRMAN: You've not specifically said. You think as part
12 of the review talking together that should be one of
13 the things that they should address?

14 MS RICHARDS: There's no review proposed, it's a straight
15 recommendation that's proposed, and the starting point 10.55AM
16 is that there should in future be integrated Incident
17 Management Teams to incorporate - - -

18 CHAIRMAN: And that's, you'd say, a necessary incident of
19 that process?

20 MS RICHARDS: Yes. So initially what one would envisage is 10.55AM
21 that there would be a GDF Suez person managing the
22 incident and, if the incident can be dealt with without
23 involving external agencies, then well and good. But
24 Incident Controller accreditation will undoubtedly be
25 of use in managing even small incidents. If the 10.56AM

26 incident is taken over by an external agency, in this
27 case the Fire Services, what we submit should be
28 recommended is that, that person manage an integrated
29 Incident Management Team in which mine personnel
30 participate, rather than the two parallel teams that 10.56AM
31 were in operation during this mine fire. So that's the

1 first of the recommendations arising out of the
2 response to the fires.

3 The second is that GDF Suez, in our submission,
4 should revise its Emergency Response Plan to increase
5 its state of readiness on days of total fire ban and 10.56AM
6 that should include requiring pre-positioning of an
7 accredited Incident Controller as an Emergency
8 Commander and pre-establishment of an Emergency Command
9 Centre.

10 If a fire is burning anywhere in the mine, it's 10.57AM
11 not a good time to be opening rooms and making sure the
12 chairs are there and the computers are turned on; that
13 should have already been done so that a person who is
14 already there and has the training and the skills to
15 take command of a complex situation can immediately 10.57AM
16 swing into action.

17 The third of the recommendations arising from this
18 part of the evidence is that GDF Suez should review its
19 power supply arrangements in light of its experience
20 this year and should put in place back up power supply 10.57AM
21 arrangements that do not depend wholly on mains power.
22 These backup power supply arrangements should, at a
23 minimum, ensure that the Emergency Command Centre can
24 continue to operate if mains power is lost and that
25 there is some remaining capacity in the Fire Services 10.58AM
26 water system.

27 This is as simple as installing a generator to
28 power the Emergency Command Centre. It is less simple
29 in relation to the fire water system because it is so
30 vast, but in our submission the feasibility of having 10.58AM
31 some internal generation capacity should be explored.

1 We note that, in installing the pipes during the recent
2 fire, there was for the first time some internal
3 generating capacity included.

4 Mr Graham gave evidence on Friday about a number
5 of proposals to create redundancy to change the 10.58AM
6 switching arrangements and I don't pretend to have
7 followed that evidence. It's clear that there's a
8 great deal of thought and expertise from electrical
9 engineers that's gone into it. The fault, it seems to
10 me with the proposal, is that it still relies entirely 10.59AM
11 on mains power entering the mine and it is a very
12 common experience during a fire for mains power to be
13 lost, not necessarily because of conditions on your
14 property, but because of conditions at some distance
15 and in our submission it's appropriate for the mine 10.59AM
16 operator to examine its backup power supply
17 arrangements.

18 CHAIRMAN: Can I just raise one potential criticism that you
19 have not addressed and that is that, in relation to the
20 power situation, there might have been a reassessment 10.59AM
21 of appropriate priorities so that, whilst it was clear
22 that attending to the fire or minimising the risk of
23 fire in the operating section, priority should have
24 been given to the potential impact of the fire on the
25 northern area where the power lines were because it 11.00AM
26 might have reasonably been anticipated that what did
27 happen might happen, and so the priority should have
28 accorded greater priority than was given to the
29 possibility of the poles being set on fire and
30 therefore compromising the power. 11.00AM

31 MS RICHARDS: Yes, there's no indication, and really the

1 first person who gave evidence of being in a position
2 of command of the incident and assessing where
3 resources ought to be placed was Mr Prezioso, who
4 didn't step into that role until after 3 o'clock.

5 CHAIRMAN: So in a sense you're saying that that might be 11.00AM
6 seen as an incident of the lack of preparation?

7 MS RICHARDS: In my submission it could be found that those
8 responsible for responding to the fire at the mine
9 didn't appreciate the significance of the power lines
10 that enter the mine. And, although they are 11.01AM
11 duplicated, they do actually run through the northern
12 batters side-by-side, so a fire in the northern batters
13 always had the potential to affect both of them.

14 MEMBER CATFORD: Could I just ask a couple of questions? Do
15 you have a view about timelines for these 11.01AM
16 recommendations? Is there a sense of urgency bearing
17 in mind the fire season is going to be on us within a
18 few months?

19 MS RICHARDS: In relation to the first two proposed
20 recommendations, in our submission there's no reason 11.01AM
21 why those things could not be in place by the next fire
22 season.

23 In relation to the third of the proposed
24 recommendations concerning the power supply, the
25 implementation of that will rely on technical matters 11.02AM
26 that are very much outside our expertise and there's no
27 real evidence before the Board that could assist it in
28 determining what a reasonable timeline is. Certainly
29 the generator for the Emergency Command Centre ought
30 not to be a complex matter, but internal generation 11.02AM
31 capacity to pressurise the Fire Services pipe network,

1 in my submission, is not something that could have a
2 definite timeline put on it.

3 MEMBER PETERING: Ms Richards, thank you, that was very
4 clearly put out. The recommendations, would they be in
5 addition to those recommendations that GDF Suez 11.02AM
6 proposed on Friday through Mr Graham's evidence? Some
7 of those were around training in the Phoenix modelling,
8 training firefighting and equipment, fire training
9 specific to Hazelwood.

10 MS RICHARDS: As I understood Mr Graham's evidence, those 11.03AM
11 were things that GDF Suez is planning to do in any
12 event.

13 MEMBER PETERING: Okay.

14 MS RICHARDS: Our proposed recommendations picked up matters
15 that we didn't apprehend that they were planning to do 11.03AM
16 in any event, and perhaps refined or put a different
17 cast on the proposal that there be further training in
18 firefighting. In our submission, there's a particular
19 need for incident management training so that there can
20 be an effective coordinated response given that the 11.03AM
21 evidence is all one way, that the best way to deal with
22 fire in a mine is to put it out as quickly as possibly,
23 so that for an effective response GDF Suez is going to
24 have to be self-sufficient in most instances. If it's
25 necessary for the CFA to take control of an incident, 11.04AM
26 then the fire has already spread out of control.

27 MEMBER PETERING: I think that's cleared that up, that the
28 recommendations will be in addition, as you say, to
29 those that GDF Suez have committed to.

30 MS RICHARDS: Yes, I'm sure I'll be corrected if I've 11.04AM
31 misunderstood that, but I did understand Mr Graham's

1 evidence to be that these were things that GDF Suez
2 were proposing to do in any event, having had the
3 experience that it had in it February and March and
4 having listened to and reflected on the evidence that's
5 been presented in the course of the public hearings. 11.04AM

6 MEMBER PETERING: Thank you.

7 MS RICHARDS: Moving to the second area of submissions. In
8 the second week of the public hearings we covered a
9 very large stretch of activity ranging from air quality
10 monitoring to public health, to relief and recovery, 11.05AM
11 decisions made in relation to schools and
12 communications. Time has not permitted an outline of
13 basic factual findings that we propose be made in
14 relation to that week's evidence, so I'll move straight
15 into the commendations, the criticisms and the 11.05AM
16 recommendations that arise.

17 Firstly the commendations, and the first two of
18 these relate to the Environment Protection Authority's
19 activities during the fire. The EPA was able to deploy
20 an impressively qualified group of air quality 11.06AM
21 scientists to undertake monitoring in the Latrobe
22 Valley after it was requested to do so on 11 February.
23 It was able to provide indicative air quality data from
24 around 13 February and then, with quite impressive
25 rapidity, it was providing validated air quality data 11.06AM
26 from 19 February from South Morwell and earlier than
27 that at the Hourigan Road site in East Morwell.

28 Although it didn't have suitable air monitoring
29 equipment for rapid deployment in an emergency, and
30 that's an area that I will return to, that was quickly 11.06AM
31 sourced from Interstate. Although some criticism is

1 made later of the EPA in relation to its starting
2 position in an emergency, given its starting position
3 it responded very quickly and effectively and with, as
4 I say, impressive expertise.

5 The other area for commendation, in our 11.07AM
6 submission, is the EPA's preparedness to seek peer
7 reviews of the Carbon Monoxide Protocol that was
8 developed together with the Department of Health during
9 the fire, and also the programs that it had undertaken
10 for monitoring and assessment of air quality, soil and 11.07AM
11 ash and water. On each of those three areas the EPA
12 went to external experts and said, "Are we doing the
13 right thing? Are we monitoring the right thing? Is
14 there more that we should be doing? Should we be
15 placing the monitors in other places?" 11.07AM

16 While that was commendable, the benefits of the
17 activity would have been greater had the fact that this
18 external validation been sought been shared with the
19 public, so the public would have had that assurance of
20 other experts having reviewed what the EPA was doing 11.08AM
21 and having given it their approval. Although, as I
22 will return to, the peer review that the EPA obtained
23 of the Carbon Monoxide Protocol was not an affirmation
24 of that protocol.

25 Moving next to the Department of Health, which 11.08AM
26 includes the Chief Health Officer. A matter of very
27 strong commendation should be, in our submission, the
28 establishment and operation of a Community Health
29 Assessment Centre in Morwell from 21 February right
30 through to the end of March. That centre was, as is 11.08AM
31 evident from the evidence of a number of community

1 witnesses, a welcome source of information and
2 reassurance during the uncertain weeks of the smoke
3 from the mine fire. Professor Brook's evidence was
4 that over 2,000 people had attended it during the fire
5 and it was clearly a very welcome measure and well used 11.09AM
6 by the community.

7 That said, its benefits again would have been
8 enhanced had there been greater involvement of local
9 health services providers and in particular general
10 practitioners in the establishment and operation of the 11.09AM
11 centre; not necessarily as clinicians, but as another
12 means of informing the community and reassuring the
13 community to the extent that it was possible to do so.

14 Also commendable was the action taken by the
15 Department of Health to seek peer reviews of both its 11.09AM
16 Carbon Monoxide Protocol and the PM 2.5 Protocol that
17 was developed during the fire. It also obtained a
18 Rapid Health Risk Assessment from the Monash University
19 School of Public Health and Preventive Medicine which
20 is a very thorough and impressive document. Once again 11.10AM
21 there is a caveat, however, that the benefits of this
22 external expertise would have been enhanced if the fact
23 that they were being sought had been shared with the
24 public and, in relation to the Rapid Health Risk
25 Assessment, if it had been obtained at an earlier date. 11.10AM

26 The third area of commendation, in our submission,
27 is the long-term health study that the Department of
28 health has also embarked on subsequent to the fire.
29 This is a study that will benefit both the local
30 community who were exposed to the smoke by providing 11.11AM
31 monitoring of any long-term adverse health effects and

1 it will also, in addition to having real health
2 benefits for those who were here breathing in the
3 smoke, it will also address an existing gap that became
4 clear during the course of the fire in medical
5 understanding of the long-term health effects of 11.11AM
6 exposures such as were experienced this year and will
7 assist health authorities and others in their future
8 policy development and their responses to similar
9 incidents in future.

10 There are some areas for improvement in the 11.11AM
11 proposed long-term health study and these are addressed
12 in the recommendation that I will come to in a while.

13 Under the heading of "Communications", there
14 should in our submission be recognition of the clear
15 communications during the acute phase of the fire on 11.12AM
16 9 February before it became established as a mine fire
17 and it was simply a bushfire situation. ABC local
18 radio and local commercial radio provided timely and
19 responsive information, and the CFA provided again
20 timely and helpful community information and warnings 11.12AM
21 through a range of different platforms, including its
22 FireReady app, its website and text messages that a
23 number of community witnesses have confirmed that they
24 received on 9 February.

25 The Fire Services, and in particular the CFA, 11.12AM
26 should also be commended for their sustained efforts to
27 provide the community with information during the
28 course of the fire right through February and
29 into March. Fire Services Commissioner Lapsley was
30 widely appreciated in the community for the forthright 11.13AM
31 and honest way that he presented information to the

1 public.

2 Community witnesses also commented favourably on
3 the frankness of Incident Controllers at community
4 meetings. It was more welcome to hear that, while Fire
5 Services didn't know how long the fire would take to 11.13AM
6 put out, they were doing all they could to bring it
7 under control.

8 As the fire fight went on the CFA was highly
9 visible in the community and engaged in communication
10 with the community through a range of quite innovative 11.13AM
11 face-to-face means. The community information bus was
12 a successful measure, community meetings were - with
13 one exception that I'll come to - and the engagement of
14 the Morwell Neighbourhood House was a successful means
15 of reaching the community. 11.14AM

16 Mention should also be made of a range of
17 community leaders and networks, for example Morwell
18 Neighbourhood House and Voices of the Valley who are
19 identified because we've heard specifically from people
20 involved in those organisations, who utilised social 11.14AM
21 media and arranged community meetings and filled what
22 was perceived by many in the community to be an
23 information gap.

24 Moving next to the area of schools and children's
25 services. The first commendation goes to the Latrobe 11.14AM
26 City Council and its decisive action in closing the
27 Maryvale Crescent Early Learning Centre from
28 10 February. As we've heard from a number of
29 witnesses, that early learning centre is
30 extraordinarily close to the mine and it wasn't 11.15AM
31 necessary for anyone to wait for air quality data or

1 decision-making protocols to make a judgment that it
2 was untenable for children to be there.

3 The Department of Education and Early Childhood
4 Development also acted relatively quickly, although not
5 as quickly to relocate children from Commercial Road 11.15AM
6 Primary School in Morwell to other primary schools in
7 Moe and Newborough and it did that from 20 February.

8 Although we've not heard evidence specifically
9 from the Catholic Education Office, it's apparent from
10 Mr Jackman's evidence to the Board last week that the 11.16AM
11 Catholic Education Office relocated Sacred Heart
12 Primary School, which is just near Commercial Road
13 Primary School, on the same day.

14 A range of other schools and children's services
15 in Morwell were closed or relocated at various stages 11.16AM
16 during the fire, but it would appear that all of them
17 had either closed or relocated by 20 February; these
18 are schools that were on the southern side of
19 Commercial Road.

20 Another commendation is both to the Department of 11.16AM
21 Education and Early Childhood Development and the
22 Catholic Education Office for arranging comprehensive
23 cleaning of both of the primary schools in Commercial
24 Road - the Sacred Heart Primary School and the
25 Commercial Road Primary School - before children 11.17AM
26 returned to the school at the beginning of Term 2.

27 Moving to the areas of relief and recovery,
28 there's been a good deal of community criticism about
29 aspects of the relief and recovery effort, and in
30 particular in relation to the respite and relocation 11.17AM
31 payments that were administered by the Department of

1 Human Services. But in our submission it should be
2 acknowledged that these were payments that did not have
3 to be made and that they were made relatively quickly,
4 displaying fairly flexible application of a
5 pre-existing program, in particular the personal 11.17AM
6 hardship assistance program.

7 The benefits of these payment schemes were
8 diminished, and I'll come to this in a little while, by
9 a poorly explained eligibility criteria, but that
10 should not detract too much from the fact that they 11.18AM
11 were made available in the first place. Clearly there
12 were a lot of people who had access to assistance that
13 need not necessarily have been provided at all.

14 There were a range of other respite initiatives
15 that were made available through the leadership of DHS 11.18AM
16 and all of these helped in varied ways to alleviate the
17 effects of the smoke during the mine fire. Some of
18 these were quite innovative and one of the most
19 appreciated appears to have been the free V/Line
20 traffic that just allowed people to leave Morwell 11.18AM
21 either to go to a neighbouring town or to travel into
22 Melbourne to take advantage of other respite measures
23 that were available such as free visits to the zoo.

24 We've had a little evidence about this from
25 Mr Hall of DHS and Mr Mitchell of the council and also 11.19AM
26 from Ms Brooke Burke who runs a small business of her
27 own about support and assistance that was made
28 available for small businesses in Morwell; and again,
29 that was a reasonably significant amount of money that
30 was made available and clearly, in Ms Burke's case at 11.19AM
31 least, it has assisted to defray some of the costs that

1 were incurred by her business due to the smoke from the
2 fire.

3 GDF Suez has provided additional stimulus to the
4 Morwell business community, particularly the retail
5 sector, through its Revive Morwell initiative and it is 11.19AM
6 also looking to inject \$500,000 into the Morwell
7 community through its Community Social Capital
8 Committee which is working with a range of community
9 organisations to identify projects that will build
10 community social capital in Morwell. 11.20AM

11 Another measure that we shouldn't overlook because
12 we've all been passing by it every day during these
13 hearings is the community information and recovery
14 centre that was established in this building at the end
15 of February. It has operated to provide a central 11.20AM
16 location for a whole range of assistance to affected
17 members of the community, ranging from the loan of
18 vacuum cleaners, through to the availability of
19 insurance brokers to provide advice to people about
20 their insurance claims and indeed to assist them with 11.20AM
21 their claims. Mr Mitchell gave evidence of a quite
22 successful initiative that has come from those
23 insurance brokers' work.

24 Moving from the positives to the things that could
25 have been done better. The first criticism relates to 11.21AM
26 the EPA's state of readiness to respond as a support
27 agency during an emergency. The EPA is designated in
28 the Emergency Management Manual as a support agency for
29 emergencies and, of course, it has one emergency for
30 which it is the control agency, pollution of inland 11.21AM
31 waterways. Notwithstanding its role in emergency

1 management, it just was not well equipped to measure
2 air emissions from an emergency within a short time of
3 that emergency commencing.

4 Although it sourced and deployed the required
5 equipment fairly quickly, there was still an 11.22AM
6 unsatisfactory delay in providing air quality data for
7 decision-makers, including the Incident Controller and
8 the Chief Health Officer, and that delay between the
9 request to the EPA to start providing air quality data
10 and when it began providing high quality validated data 11.22AM
11 from the mobile laboratory at the bowling club
12 encompassed that weekend of 15 and 16 February when
13 conditions were acutely bad. During that weekend, only
14 indicative data was available and, as we shall see,
15 that indicative data was not acted upon by the 11.23AM
16 Department of Health over that weekend.

17 There are a number of areas of criticism, in our
18 submission, of the Department of Health and the Chief
19 Health Officer. The first of those relates to the
20 Carbon Monoxide Protocol that was developed by the 11.23AM
21 Department of Health on 16 February. The Board will
22 recall the series of events over that weekend, these
23 are outlined probably most helpfully in Commander
24 Katsikis's witness statement. There were readings of
25 carbon monoxide in the community on Saturday, 11.23AM
26 15 February that exceeded those levels identified as
27 acceptable for the community in the Health Management
28 and Decontamination Plan that was being applied by Fire
29 Services to their firefighters. On that basis, the
30 Incident Controller issued a watch and act message that 11.24AM
31 several witnesses have attested to receiving on their

1 mobile phones.

2 On 16 February there was a change implemented to
3 the way in which this information would be assessed and
4 advice given about whether a warning was necessary, and
5 integral to that was the development of the Carbon 11.24AM
6 Monoxide Protocol on 16 February by officers of the
7 Department of Health. Again, we've not had detailed
8 evidence from the people involved in developing that
9 protocol on the day and the influences on them, but
10 what is apparent from the face of the two documents, 11.25AM
11 the Carbon Monoxide Protocol and the Health and
12 Decontamination Plan, is that they apply very different
13 exposure levels, and perplexingly we see that levels
14 that are not considered safe for firefighters who are
15 fit adults who have already undergone screening before 11.25AM
16 they're permitted onto the fire ground, are greatly
17 exceeded in the Carbon Monoxide Protocol that was
18 developed by the Department of Health in mid-February.

19 The reasons for the differences between these two
20 sets of exposure levels has not been satisfactorily 11.25AM
21 explained to the Inquiry, in my submission, and
22 Mr Lapsley certainly was not able to do so on Friday,
23 and there was really no effort to explain the reasons
24 for the discrepancy. Accepting that one adopts an
25 acute exposure standard developed in the United States 11.26AM
26 and the other applies the Safe Work Australia standard
27 here in Australia, it remains completely unclear why
28 the community should tolerate exposure standards that
29 would not be expected of firefighters.

30 This confusion on our part is confirmed by the 11.26AM
31 peer reviews that were obtained of the Carbon Monoxide

1 Protocol by the EPA. It went to two respected
2 epidemiologists and sought their opinion and, at the
3 risk of oversimplifying what those peer reviews say,
4 and these are attached to Mr Merritt's statement, both
5 of them said that in a prolonged event the levels that
6 were applied in the Carbon Monoxide Protocol were too
7 high and should be reduced.

11.26AM

8 Mr Merritt's evidence was that he expected that
9 those peer reviews would have been provided to
10 Dr Lester; Dr Lester's evidence was that she was not
11 aware of them. In any event, we are all aware of them
12 now and it is clear that those two protocols for carbon
13 monoxide exposure, one for firefighters and one for the
14 community at large, need to be reviewed and need to be
15 made consistent one with the other. The advice of the
16 epidemiologists who undertook those peer reviews of the
17 Carbon Monoxide Protocol should be heeded. That's
18 something I will return to when I come to the
19 recommendations.

11.27AM

11.27AM

20 That criticism about the Carbon Monoxide Protocol
21 and the levels that were adopted in it is connected
22 with the next area of criticism which relates
23 specifically to the response to reports of high carbon
24 monoxide levels in southern Morwell on 16 February.

11.27AM

25 On the evening of 16 February the EPA reported
26 very high levels of PM 2.5 and dangerously high levels
27 of carbon monoxide to the Department of Health, and
28 that report was in an email from Dr Torre of the EPA to
29 Vikki Lynch of the Department of Health. What the
30 email showed, and at this stage it was only the
31 indicative data, it was not the high quality data that

11.28AM

11.28AM

1 began to be produced from the bowling club mobile
2 laboratory later on in that week, but it indicated a
3 number of things:

4 The first was that during the morning, from half
5 past midnight to 8.30, there had been an 8-hour average 11.29AM
6 level recorded between 25-45 ppm. The second thing
7 that it showed was that, during a 5-hour period that
8 afternoon, between 1.30-6.30, there were a series of
9 five-minute readings that were at alarmingly high
10 levels. At the Morwell Bowling Club levels were 11.29AM
11 recorded over that period between 25-57 ppm and at the
12 Maryvale Kindergarten they were recorded between
13 20-44 ppm.

14 These were five minute readings but they were
15 taken using the same kind of monitors that firefighters 11.29AM
16 use on the fire ground. If the readings were taken at
17 intervals over a 4-hour period it was, of course,
18 possible to arrive at an indicative conclusion about
19 what the average readings would have been. And, if
20 those readings did represent average carbon monoxide 11.30AM
21 levels in those areas, they were high enough to warrant
22 at least a watch and act message to shelter in place
23 even under the high levels that were adopted in the
24 Carbon Monoxide Protocol developed by the Department of
25 Health that day. 11.30AM

26 Notwithstanding that indicative data, the
27 Department of Health determined to take no action other
28 than issuing a routine bushfire smoke advisory for the
29 following day. There was no action taken that evening
30 when carbon monoxide levels were known to be high and 11.31AM
31 in excess of the high standards that the Department of

1 Health had identified.

2 Professor Campbell in his evidence said that
3 "sometimes to make no decision is to make a decision"
4 and this was one of those occasions. In our
5 submission, the inaction on that evening was dangerous 11.31AM
6 and it is fortunate that, as far as we know, no harm
7 resulted.

8 A further area of criticism relates to the Chief
9 Health Officer's advice on 28 February that those
10 vulnerable groups living south of Commercial Road 11.31AM
11 should consider temporary relocation. The criticism
12 doesn't relate to that advice as it stood; the
13 criticism relates to the timing of that advice. In our
14 submission, it was provided too late.

15 The State Emergency Management Team had been 11.32AM
16 advised from 12 February that the fire was likely to
17 burn for up to a month and would have significant
18 long-term implications for the community. In light of
19 that advice, in our submission, it was not appropriate
20 for health authorities to operate on a day-by-day basis 11.32AM
21 in the advice they were giving to the community. There
22 was sufficient indicative air quality data available
23 from the EPA by at least 16 February based on
24 Dr Torre's rough calculation that the levels in the
25 south of Morwell were two to three times the levels 11.32AM
26 that were being recorded at Hourigan Road for the Chief
27 Health Officer to be satisfied that the levels of PM 10
28 and PM 2.5 vastly exceeded ambient air quality
29 standards and were likely to do so from time to time
30 for a number of weeks. 11.33AM
31 Providing advice to consider temporarily

1 relocating if you are in a vulnerable group in an area
2 heavily affected by smoke is a very gentle measure to
3 suggest. It was not an evacuation and there was
4 certainly nothing compulsory about the advice that was
5 proffered. But, as we have seen from evidence, a 11.33AM
6 number of people were waiting for that advice, almost
7 that permission, to leave. It should have come
8 earlier. It would have been, from at least
9 16 February, consistent with the Precautionary
10 Principle that appears in the Public Health and 11.34AM
11 Wellbeing Act to proffer that advice to the community
12 and it would not have been disproportionate to the risk
13 faced.

14 Another area of criticism of the temporary
15 relocation advice is the basis on which the advice was 11.34AM
16 limited to those living south of Commercial Road.
17 Dr Lester in her evidence was quite definite that the
18 basis for choosing Commercial Road as the dividing line
19 was based on different readings from the Morwell
20 Bowling Club and the Hourigan Road air monitoring 11.34AM
21 station. She did not refer in her evidence to a map
22 that identified more nuanced spatial understanding of
23 the fall in PM 2.5 levels across Morwell.

24 It emerged almost by accident in Mr Mitchell's
25 evidence that there had in fact been a map discussed in 11.35AM
26 a meeting that morning on 28 February and we remain
27 hopeful that that map will ultimately be produced to
28 the Inquiry. It is a map that provides a spatial
29 depiction of travel blanket readings of PM 2.5 levels
30 and, if it is the map that we believe it is, it does 11.35AM
31 provide a clear basis for choosing Commercial Road as a

1 dividing line.

2 This proved to be a very divisive matter in the
3 community, that suddenly this new suburb of South
4 Morwell had been created and was seen and understood by
5 the community as an arbitrary dividing line. It could,
6 by reference to this travel blanket data plotted on a
7 map, have been readily explained to the community and,
8 in our submission, it is a mystery why it was not.

11.35AM

9 MEMBER PETERING: Ms Richard, just on that point. If it is
10 the map that we are thinking of, with the colours on
11 it, if there could also be a legend provided, so what
12 does red mean, blue mean and green, so just an
13 explanation of the colours on the map would also be
14 greatly appreciated.

11.36AM

15 MS RICHARDS: It would have been very helpful if the
16 witnesses who generated that map had discussed its
17 significance with us when they gave their evidence at
18 the Inquiry, but we'll continue to make that enquiry of
19 those representing the State.

11.36AM

20 Moving to the area of communications. Although
21 community meetings were an integral and in large part
22 successful part of the Fire Services good
23 communications during the fire, the community meeting
24 held on 18 February was an exception. There had been
25 terrible conditions in Morwell over the weekend of 15
26 and 16 February and, in light of those conditions, more
27 care should have been taken in setting up the meeting,
28 ensuring that a skilled facilitator was available to
29 run the meeting and ensuring that there were
30 representatives at the meeting who were able to provide
31 authoritative information on behalf of the agencies

11.37AM

11.37AM

1 they represented.

2 There were guidelines in existence for setting up
3 and running community meetings that Mr Rozen took
4 Ms Tabain to last week; had those guidelines been
5 followed, the meeting on 18 February may not have been 11.37AM
6 such an angry and disappointing event.

7 Criticism in our submission should also be made of
8 the bushfire smoke advisories issued by the EPA and the
9 Chief Health Officer jointly throughout the fire.
10 These were repetitive, poorly focused and really quite 11.38AM
11 unhelpful, increasingly so as the fire went on. It was
12 of little use to a person who lived in Morwell to be
13 told that it was going to be smoky.

14 The advice should have, in our submission, been
15 better tailored to the actual conditions that were 11.38AM
16 prevailing and the prolonged nature of the fire, and
17 could have contained some more practical advice about
18 measures to be taken to avoid the impact of the smoke.

19 In similar vein, the health alerts and advisories
20 issued by the Chief Health Officer that were targeted 11.38AM
21 at health practitioners and service providers were also
22 repetitive and did not actually contain information
23 that assisted practitioners' advice to patients and
24 clinical decision-making. It's of little assistance to
25 tell a practitioner that someone with asthma should 11.39AM
26 follow their asthma plan, when the practitioner is the
27 person responsible for helping them device and
28 implement an asthma plan.

29 A good deal of information provided to the
30 community during the fire by the State and its agencies 11.39AM
31 didn't, in our submission, and in the opinion of the

1 two communications experts who gave evidence, meet best
2 practice in crisis communication which requires, to put
3 it simply, quick, consistent, open and empathetic
4 public communications during a crisis.

5 There are a couple of examples that I have drawn 11.39AM
6 out in paragraph 9 of information sheets issued by the
7 EPA and the Department of Health that pose questions -
8 for example, "The data on the EPA's website looks as
9 though we've exceeded air quality standards, is that
10 right? And, could the current smoke exposure affect my 11.40AM
11 long-term health or that of my family?" But then
12 failed to provide answers. The answers to those
13 questions are, "Yes" and, "We don't know for sure but
14 we think it's unlikely." Those are answers that could
15 be simply and clearly stated and, in our submission, it 11.40AM
16 created confusion and undid a lot of the good work that
17 had been done in the communications area to provide
18 information that was evasive and unhelpful and
19 inconsistent with the experiences of people living in
20 the community. 11.41AM

21 The temporary relocation advice of course was more
22 than just advice, it was a communication and it was
23 understandably seen by many in the community as
24 inconsistent with earlier advice and also inconsistent
25 with a bushfire smoke advisory issued by the EPA 11.41AM
26 quoting the Chief Health Officer that very day. In our
27 submission, advice that the best precaution to take was
28 to stay out of the smoke, including by leaving town,
29 could and should have been given from a much earlier
30 stage in the fire. 11.41AM

31 Finally on the subject of communications, in our

1 submission GDF Suez was conspicuous in its absence in
2 public communications throughout the fire, and in its
3 public utterances demonstrated little concern for the
4 community and the effect that the fire was having on
5 people living in the community. As Professor Macnamara 11.42AM
6 and Mr Drummond identified, this was contrary to best
7 practice crisis communications, which requires those
8 involved in a crisis to communicate quickly,
9 consistently, openly and empathetically with those
10 affected. 11.42AM

11 In relation to schools and children's services,
12 although the relocation of the Commercial Road Primary
13 School and the Sacred Heart Primary School was
14 relatively quick, and that's been commended, it remains
15 the case that it could have been quicker. It wasn't 11.42AM
16 necessary, in our submission, for those administering
17 those schools to obtain advice, which almost appears to
18 have been a sort of permission from the Chief Health
19 Officer before making that decision. As it transpired,
20 the advice that was given was advice during a 11.43AM
21 conversation, followed up by an email, that was not
22 based on air quality data or a decision-making protocol
23 but on a secondhand report of the impact on children at
24 a daycare centre close to these two schools.

25 In our submission, those administering those 11.43AM
26 schools should have, like the Latrobe City Council did,
27 assess the conditions in the southern part of Morwell
28 for themselves and made a call that they were plainly
29 untenable for children and for staff and not conducive
30 to quality education from the very beginning. 11.43AM

31 Finally, in relation to relief and recovery, the

1 eligibility criteria for the relocation and respite
2 payments were not well articulated or explained; they
3 appeared to be arbitrary and were inconsistently
4 applied. Of particular concern was the income
5 requirement, that was not clearly explained in public 11.44AM
6 information issued by the Department of Human Services,
7 also the geographic criterion which was a consequence
8 of the advice issued by the Chief Health Officer that,
9 as I've already submitted, was poorly explained.

10 Finally, a criticism needs to be made of the clean 11.44AM
11 up assistance package that was made available.

12 Acknowledging that clean up assistance of this sort is
13 not ordinarily made available in the event of a fire or
14 a flood, the self-clean package that was provided - a
15 bucket with a mask and some gloves and a car wash 11.45AM
16 voucher and a laundry voucher was wholly inadequate to
17 the scale of the cleaning task that faced members of
18 the community. The council knew this and explained
19 this to Local Government Victoria, including bringing
20 them here to Morwell and taking them on a tour of 11.45AM
21 various residences, but the clean up package was fixed
22 at State level and, as we have heard from community
23 witnesses, was perceived to be inadequate.

24 The clean up assistance package was not announced
25 until 18 March, more than a week after the fire had 11.45AM
26 been declared controlled, and there were then further
27 delays in implementing the assisted cleaning package
28 because council had been unable to put those contracts
29 out to tender until the package was announced. This
30 really meant that the assistance provided was too 11.46AM
31 little, too late; many people had already made their

1 own arrangements by the time the assistance package was
2 made available.

3 Moving then to the recommendations, and there are
4 a number of them under the heading of "Environment and
5 health". The first relates to the need for a national 11.46AM
6 compliance standard for PM 2.5. In our submission, the
7 Victorian Government should take the lead on this
8 issue. There is an indication of an intention to
9 develop a compliance standard in the gazettal notice
10 that Ms Richardson referred to during her evidence with 11.46AM
11 Dr Torre, and Counsel Assisting accept the desirability
12 of moving forward as a nation on this important issue.
13 But there are limits and, if it can't be achieved
14 within 12 months, then Victoria should take the lead
15 and should, in our submission, establish its own 11.47AM
16 state-based compliance standard, as indeed it did in
17 relation to food safety laws some years ago.

18 Additionally, in our submission the Board should
19 recommend that the EPA undertake monitoring of PM 2.5
20 at all of its permanent monitoring stations in 11.47AM
21 Victoria, which is something that it does not currently
22 do; it's only very recently commenced monitoring PM 2.5
23 here in Traralgon and it was not monitoring PM 2.5 in
24 Traralgon at the time of the fire.

25 One of the purposes for having an advisory 11.47AM
26 standard in the National Environment Protection
27 Standards was to start the monitoring so that more
28 information would be available for setting a compliance
29 standard and, in order for that to happen, the
30 monitoring must take place and it would appear it has 11.48AM
31 not.

1 There was evidence before the Board that there had
2 previously been some discussion with the EPA about the
3 need for air monitoring in Morwell as opposed to simply
4 in Traralgon for the entire Latrobe Valley. In our
5 submission, an appropriate recommendation arising out 11.48AM
6 of the experience of the fire this year is for the EPA
7 to establish an automatic monitoring station in
8 southern Morwell close to the mine to monitor a range
9 of substances, but in particular fine particulate
10 matter. Those readings should be available for the 11.49AM
11 public and that monitoring station should, in our
12 submission, remain in place for at least five years.
13 This is a project that the State could invite GDF Suez
14 to contribute to as part of its corporate social
15 responsibility plan. 11.49AM

16 Moving to the EPA's emergency response capacity:
17 In our submission, the EPA should equip itself to be
18 able to respond in an emergency rapidly with portable
19 equipment that will enable it to provide reliable data
20 for decision-making within 24-hours at most of an 11.49AM
21 incident occurring. This is a recommendation that was
22 put forward jointly by Dr Torre and Ms Richardson, and
23 it, in our submission, is a very sensible and
24 relatively low cost way for the EPA to be more prepared
25 to respond in an emergency in future. 11.50AM

26 Consistent also with suggestions made by Dr Torre
27 and Ms Richardson, in proposed Recommendation 5 we've
28 identified two research and development projects for
29 the EPA; one relating to development of low cost simple
30 ways for anyone in the community to measure and record 11.50AM
31 airborne particulate matter; and the second is to build

1 on the excellent Phoenix RapidFire prediction tool and
2 produce an equivalent air quality prediction tool that
3 can be used by Emergency Services in their
4 decision-making and planning and warnings.

5 CHAIRMAN: You have a mention there the matter of planned 11.51AM
6 burning which can of course be a matter of concern to a
7 variety of Victorian towns.

8 MS RICHARDS: Including here in the Latrobe Valley as we
9 heard from Mr Merritt, and of course that prediction
10 tool would have an application to planned burning as 11.51AM
11 well as to unplanned fires.

12 The long-term health study, while welcome, at the
13 moment is only proposed to be for an initial term of
14 10 years due to tendering requirements as we understood
15 the evidence. In our submission, that allows the tail 11.51AM
16 to wag the dog and the Department of Health should
17 commit to at least a 20-year health study, long-term
18 health study, and should put in place the contractual
19 arrangements to give effect to that commitment. The
20 study should, in our submission, have a governance 11.52AM
21 structure that includes both community representatives
22 and the Latrobe Valley health advocate who I'll come to
23 in a while which should publish regular progress
24 reports.

25 It was notable during the course of this fire that 11.52AM
26 very heavy reliance, and with it some pressure, was
27 placed on the Chief Health Officer as the sole source
28 of health advice during an emergency. In our
29 submission there is capacity for that pressure to be
30 alleviated by the establishment in advance of a public 11.53AM
31 health emergency expert panel who can be available as a

1 source of advice during an emergency on a range of
2 different areas; whether it be communicable diseases or
3 air quality issues or indeed anything else. This is a
4 panel that could be established by the Emergency
5 Management Commissioner and the Chief Health Officer in 11.53AM
6 combination, and could identify in advance of any
7 incident occurring a range of expertise, both local,
8 interstate and international.

9 The next recommendation that we propose builds on
10 the Bushfire Smoke Protocol in a way suggested by 11.53AM
11 Dr Torre and Ms Richardson in their joint report. In
12 light of the experience this February and March, in our
13 submission it should now be possible to develop a more
14 comprehensive Victorian Smoke Management Guide that
15 would comprise a suite of documents, including various 11.54AM
16 protocols that were developed and should be revised
17 following the fire, and information for employers to be
18 developed by WorkCover.

19 The next recommendation relates to the revision of
20 the Carbon Monoxide Protocol and the PM 2.5 Protocol 11.54AM
21 that were developed by the Department of Health and the
22 EPA during the fire, and in particular revising the
23 community Carbon Monoxide Protocol so that it is
24 consistent with the standard in place for firefighters.
25 This should, in our submission, be done by the 11.55AM
26 Emergency Management Commissioner and should be in
27 place by the beginning of the next fire season
28 in November this year and it should be reviewed by an
29 independent expert panel.

30 The next recommendation proposed is that the 11.55AM
31 Victorian WorkCover Authority should develop and

1 publish information for employers about occupational
2 air quality standards, including the compliance
3 standards that are set by reference to the Safe Work
4 Australia Hazardous Substances Information System. The
5 Board will recall that information was provided by 11.55AM
6 WorkSafe employers in extremely general terms, and
7 there are in fact occupational standards that are
8 referenced in the Occupational Health and Safety
9 Regulations, and it would be of assistance to tell
10 employers what those are and to give them some 11.56AM
11 practical advice about how to ensure that they're being
12 complied with.

13 The next recommendation arises from suggestions
14 made by Board members, and in particular Professor
15 Catford in discussion with Professor Brook and 11.56AM
16 Dr Lester. It is notorious that health outcomes in the
17 Latrobe Valley are worse than those for the remainder
18 of Victoria. The smoke from the mine fire in February
19 and March this year added insult to an already poor
20 situation. 11.56AM

21 In our submission, this is an opportunity to take
22 that insult and to turn it into a basis for improvement
23 of health outcomes in the Latrobe Valley and this could
24 be done by declaring the Latrobe Valley a health
25 conservation area and appointing a person in whom the 11.57AM
26 community has confidence as a health advocate for the
27 Latrobe Valley. That person would, as we have already
28 submitted, have a defined role in relation to the
29 long-term health study, but could act as a champion for
30 improved health in the Latrobe Valley more generally. 11.57AM

31 The next series of recommendations relate to

1 communications and I'll touch on these fairly quickly.
2 The first is that Emergency Management Victoria should
3 take the lead in ensuring that all agencies involved in
4 emergency response have the capability and the
5 resources that they need to respond with effective 11.58AM
6 public communications during an emergency. This can
7 include a range of matters. It should include training
8 in crisis communication. It should also include the
9 availability of specialist communications staff to
10 provide rapid assistance during a complex and prolonged 11.58AM
11 incident.

12 Members of the Board will recall that Ms Tabain
13 spoke about her assessment that it would have been
14 helpful to have a senior and more experienced
15 communications practitioner here on the ground in the 11.58AM
16 Latrobe Valley at a much earlier stage in the incident.

17 The third matter is the development of
18 communications capabilities in all media and all
19 forums; everything from facilitating community meetings
20 and having trained facilitators available for that kind 11.59AM
21 of communication, to effective use of social media to
22 inform the community during an incident.

23 The next recommendation that's proposed arises
24 from Mr Lapsley's evidence about the importance of a
25 community engagement model for Emergency Management 11.59AM
26 planning and is also consistent with what is written in
27 the Victorian Emergency Management formal White Paper
28 on community engagement. It should be an integral
29 component of Emergency Management planning so that, if
30 and when an incident occurs, trusted networks in a 11.59AM
31 community are already known and are already available

1 to Emergency Services as a means of communicating with
2 the community.

3 The next two recommendations relate to GDF Suez:
4 The first concerns the need to include a private
5 operator of essential infrastructure such as GDF Suez 12.00PM
6 in the co-ordination of public communications during an
7 incident. There was quite an elaborate co-ordination
8 process for communications by public sector agencies
9 and GDF Suez were not included in that, and Mr Harkins
10 accepted when I put it to him that that would have been 12.00PM
11 useful.

12 Then finally, arising out of the reports of
13 Professor Macnamara and Mr Drummond, in our submission
14 GDF Suez should review its own crisis management
15 communication strategy in line with international best 12.00PM
16 practice.

17 So, those are the recommendations proposed in
18 relation to environment and health. Unless there are
19 any questions, I propose to give Mr Rozen a turn now
20 and he will address the Board in relation to 12.00PM
21 firefighter safety and also in relation to the very
22 critical subject area of mitigation and prevention.

23 MR ROZEN: The present Inquiry is the third major Victorian
24 Inquiry in recent years to consider firefighter safety.
25 The Board may recall Mr Lapsley's evidence about the 12.01PM
26 challenges that confront emergency organisations in
27 relation to what can be sometimes conflicting legal
28 obligations; the duty on them to suppress fire and at
29 the same time the duty on them to protect the
30 firefighters who they are deliberately deploying into 12.01PM
31 harm's way. In that respect Emergency Services are

1 unusual as an employer in having to comply with their
2 obligations under legislation in those circumstances.

3 The evidence before the Inquiry indicates that a
4 very large number of firefighters were deployed to the
5 fire fight at the Hazelwood Mine. No lives were lost 12.02PM
6 amongst the firefighters, many of whom worked in very
7 hazardous and difficult circumstances, and further no
8 serious injuries were suffered other than by one MFB
9 firefighter who suffered complications from a cut to
10 his hand that necessitated a number of surgical 12.02PM
11 interventions.

12 It's pleasing to note, having regard to that
13 evidence, that a number of the recommendations from the
14 Inquiries - that is, the Linton Bushfire Inquiry in
15 2002 and the Royal Commission in 2009 into the Black 12.02PM
16 Saturday Bushfires - a number of the recommendations
17 from those early Inquiries were implemented at
18 Hazelwood. For example, the agencies made extensive
19 use of Safety Officers, a matter that I will return to.

20 The fire fight at the mine was complex and vast 12.03PM
21 and, as my learned friend Ms Richards has noted, the
22 fire was very difficult to extinguish. The fire
23 exposed both firefighters and employees to serious
24 health hazards, and first and foremost the focus of
25 these submissions will be the exposure of those 12.03PM
26 firefighters and mine employees to carbon monoxide.

27 The evidence before the Inquiry is that 14
28 firefighters presented to hospital for carbon monoxide
29 exposure. A number of those incidents, most of them,
30 were notified to the Victorian WorkCover Authority 12.03PM
31 under the Occupational Health and Safety Act. The

1 Inquiry will recall the evidence it heard from the two
2 volunteer firefighters, Mr Lalor and Mr Steley, who
3 were amongst the first firefighters to attend at
4 Hazelwood on 9 February.

5 Mr Steley, in particular, referred to the effect 12.04PM
6 of the fire on his health and the health of other
7 members of his local brigade, the Heyfield Brigade. He
8 thought that six members of that brigade alone had
9 suspected carbon monoxide poisoning. In addition,
10 there were 12 mine staff who were sent to hospital as a 12.04PM
11 result of high carbon monoxide readings.

12 None of this should have been a surprise, because
13 brown coal fires are notorious for emitting carbon
14 monoxide due to the incomplete combustion that occurs,
15 and the Board will remember Professor Cliff's detailed 12.04PM
16 examination of the way in which brown coal fires burn
17 and also a community witness, Mr Gaulton, gave evidence
18 about that too.

19 Equally well-known are the harmful effects of
20 carbon monoxide. The Board has evidence from Dr Torre 12.04PM
21 of the EPA and also Dr Lester and Professor Campbell.
22 Dr Torre explained that inhaling high levels of carbon
23 monoxide can cause headache, nausea, vomiting,
24 dizziness, blurred vision, confusion, chest pain,
25 weakness, heart failure and difficulty breathing. He 12.05PM
26 also noted that breathing lower levels of carbon
27 monoxide during pregnancy can lead to slower than
28 normal mental development of the child. Finally, he
29 noted that prolonged exposure at lower levels can cause
30 tissue damage and people suffering from cardiovascular 12.05PM
31 or lung diseases are more vulnerable to the toxic

1 effects of carbon monoxide.

2 There are also well-established workplace exposure
3 standards for carbon monoxide. These are promulgated
4 by Safe Work Australia and include an exposure standard
5 for carbon monoxide - that is, workplace exposure 12.05PM
6 standard, calculated on an 8-hour time weighted average
7 of 30 ppm. There are also short-term exposure limits
8 which are set out in paragraph 8 of the proposed
9 findings of our outline.

10 Given that the brown coal fires are notorious for 12.06PM
11 emitting carbon monoxide and that the deleterious
12 health effects of carbon monoxide exposure are
13 well-established, and that there was an established
14 exposure standard as at February 2014, it's somewhat
15 surprising that the Emergency Services had so much 12.06PM
16 difficulty, as the evidence indicates, in grappling
17 with this problem.

18 Reports into previous fires at the Hazelwood Mine
19 had referred to these dangers and to the need for there
20 to be in place appropriate procedures to deal with 12.06PM
21 carbon monoxide exposure. To pick just two of those
22 reports that are in evidence, there was a report
23 prepared for GDF Suez by its consultants GHD into the
24 2006 fire, and it recommended that a procedure for
25 dealing with carbon monoxide during firefighting, 12.07PM
26 including the use of carbon monoxide monitors, should
27 be developed since personnel safety is a major
28 responsibility and concern in fighting coal fires.

29 There was also a separate report prepared by the
30 CFA into that same fire, focusing on its firefighters 12.07PM
31 and, after noting at page 30 of the report that a

1 number of firefighters fighting the 2006 fire were
2 overcome by carbon monoxide exposure, the report
3 states, "Any similar fires in this environment in the
4 future will require the careful management of this now
5 known risk."

12.07PM

6 Unfortunately, as with much of what was learnt in
7 reports prepared in relation to previous fires - and
8 I'll return to this topic in relation to mitigation and
9 prevention - not all of the lessons that should have
10 been learnt from those earlier fires and earlier
11 reports were learnt.

12.08PM

12 Volunteer Firefighter Steley told the Inquiry that
13 he was provided with some basic advice about carbon
14 monoxide exposure when he was deployed to the mine on
15 the night of 9 February. He was given a carbon
16 monoxide monitor. He was told, if it beeps once you've
17 got 8 hours of time in the area before you'll have
18 ill-effects; if it beeps continuously, get out.

12.08PM

19 In the first Incident Action Plan that was the
20 hand-drawn document that the Board will recall hearing
21 evidence about, Station Officer Ross Mal from the
22 Morwell Station did address in broad terms the issue of
23 carbon monoxide exposure. He is to be commended for
24 recognising at that very early stage the need for there
25 to be appropriate protection provided to the
26 firefighters. The incident action plan noted that
27 health monitoring and HAZMAT detection team to monitor
28 carbon monoxide levels of personnel as required, but it
29 didn't identify exposure levels other than noting that
30 there should be total withdrawal at 200 ppm.

12.08PM

12.09PM

12.09PM

31 What the evidence reveals is that over the

1 following three or four days there were what could
2 probably best be described as faltering attempts to
3 come to grips with this issue which ultimately resulted
4 in a documented procedure or protocol that was in place
5 on 14 February, some five days into the fire fight at 12.09PM
6 the mine.

7 We've set out in the outline those developments
8 which started on 11 February with a reference to a peak
9 reading of 150 ppm, with that being a trigger for
10 withdrawal to what was referred to as a "clean area". 12.10PM
11 Then on the same day, following presentation at Sale
12 Hospital of a number of firefighters complaining of
13 exposure to carbon monoxide, the Incident Controller
14 ceased firefighting at the mine pending a review of
15 Safe Work arrangements. 12.10PM

16 On the following day there was implemented an
17 upgraded system of work to manage the risk of carbon
18 monoxide exposure and, as Mr Lapsley explains in his
19 second statement, the components of that protocol -
20 firstly, crew leaders were to wear personal carbon 12.10PM
21 monoxide monitoring devices and monitor carbon monoxide
22 levels in the surrounding atmosphere; the readings were
23 to be reported every 15 minutes; where atmospheric
24 carbon monoxide measured over 50 ppm firefighters were
25 to wear breathing apparatus for the maximum time 12.10PM
26 allowed. It will be recalled that the Safe Work
27 Australia exposure standard is 30 ppm. Finally,
28 where atmospheric monoxide measured over 75 ppm,
29 firefighters were to don breathing apparatus and leave
30 the area. 12.11PM

31 The Inquiry has heard that there were practical

1 difficulties associated with the use of breathing
2 apparatus in the context of this particular fire fight,
3 and those difficulties stemmed from the considerable
4 distances that firefighters had to travel from the
5 staging area to the places in the mine where they were 12.11PM
6 deployed and the limited amount of time that you can
7 actually work wearing breathing apparatus. That came
8 to the attention of the Fire Services on 13 February,
9 which was also the day that there was a HAZMAT
10 declaration made in relation to the fire by the State 12.11PM
11 controller.

12 On the following day, 14 February, a documented
13 Health Management and Decontamination Plan became
14 operational. There's already been some reference made
15 to that in the context of community carbon monoxide 12.12PM
16 exposure earlier today. At page 17 of the plan there
17 was a table that set out safety zones and action
18 levels, and the table stated that the levels were
19 designed to minimise the risk of personnel exceeding
20 the biological exposure limit of 5 per cent 12.12PM
21 carboxyhaemoglobin. It stated that carbon monoxide
22 concentrations below 30 ppm - that is the Safe Work
23 Australia exposure standard - firefighters could work
24 in what was referred to as standard personal protective
25 equipment or P2 respirators. Where there were readings 12.12PM
26 between 30-50 ppm the table states as per site,
27 self-contained breathing apparatus crew rotation
28 procedure. Where there were readings over 50 ppm the
29 document stated as per site procedure for essential
30 works. There was further explanation of this at 12.12PM
31 page 15 of that plan.

1 It will be recalled that the Inquiry heard from
2 Commander Katsikis of the Metropolitan Fire Brigade
3 HAZMAT unit. He gave evidence both about the issue of
4 firefighter safety and also, as Ms Richards has already
5 referred today, about community exposure to carbon
6 monoxide. 12.13PM

7 Commander Katsikis is a highly experienced fire
8 officer; it will be recall that he has been at the
9 brigade for many years, and in fact attended the Coode
10 Island incident in 1990, I think is the correct date. 12.13PM

11 He was deployed to the Hazelwood Incident
12 Management Team on 15 and 16 February as the Deputy
13 Incident Controller. He gave evidence, importantly, of
14 a Carbon Monoxide Protocol that he oversaw which
15 differed from the one described as operational by 12.13PM
16 Mr Lapsley. It will be recalled that Professor Catford
17 drew this to Mr Lapsley's attention and asked him if
18 there was "a potential for confusion amongst
19 firefighters in circumstances where there is apparently
20 conflicting advice and changing plans which seem a bit 12.14PM
21 on-the-run from our perspective", that is the Board's
22 perspective. Mr Lapsley agreed and recognised that
23 this was the result of the absence of what he referred
24 to as a solid plan.

25 That 14 February 2014 plan or protocol governed 12.14PM
26 the management of the carbon monoxide exposure at the
27 mine from the time it was promulgated right through to
28 the conclusion of the fire fight.

29 The Inquiry has before it in evidence a submission
30 from the United Firefighters Union. In the submission 12.14PM
31 the Union has raised a number of concerns with the

1 above developments. The submission points out that the
2 protocols were not consistently applied and were
3 difficult to apply in practice.

4 Importantly, the UFU submission draws to the
5 attention of the Inquiry some advice that was received 12.15PM
6 early on in the development of the exposure plan from
7 an Occupational Hygienist, Mr Robert Golec of AMCOSH
8 Pty Ltd. In a letter of advice provided to the
9 Metropolitan Fire Brigade on 13 February, Mr Golec
10 raised serious concerns about the way in which carbon 12.15PM
11 monoxide exposure was being managed at the mine. In
12 particular, he queried whether the 5 per cent
13 carboxyhaemoglobin level was an appropriate limit to
14 use. He suggested a limit of 2.5-3 per cent, in line
15 with the Safe Work Australia exposure standard. 12.15PM

16 Importantly, what Mr Golec said in that letter echoes
17 to some extent what was advised to the EPA and
18 Department of Health about the community protocol -
19 that is, about the standard being set too high for an
20 event of this duration. 12.16PM

21 Mr Lapsley's evidence before the Inquiry is that
22 Mr Golec's advice was not followed in its entirety by
23 the Emergency Services for the reasons explained in his
24 statement and expanded upon in evidence in the Inquiry.
25 But, from the perspective of Counsel Assisting, just as 12.16PM
26 the position with community exposure of carbon monoxide
27 was not explained satisfactorily to the Inquiry, nor
28 was this aspect of the evidence explained
29 satisfactorily either and I will return to that in the
30 recommendations that are proposed in this part of the 12.16PM
31 Inquiry.

1 Before leaving these issues, it's important to
2 note that the Firefighters Union has made a complaint
3 to the Victorian WorkCover Authority, the Regulator of
4 health and safety in this State, about these matters
5 and has asked the WorkCover Authority to investigate if
6 the CFA and the MFB complied with the Occupational
7 Health and Safety Act in relation to the management of
8 this issue. The Inquiry should note that, in response
9 to that letter, the Chief Executive of the WorkCover
10 Authority wrote to the Union and advised that the
11 Union's letter had been "referred to the enforcement
12 group for a comprehensive investigation to be
13 undertaken in relation to the allegations raised by the
14 Union to establish whether any contraventions of the
15 Occupational Health and Safety Act 2004 have occurred."

12.17PM

12.17PM

12.17PM

16 Another aspect of the evidence before the Inquiry
17 that is relevant to the issue of firefighter safety is
18 a draft Standard Operating Procedure, SOP, entitled,
19 "Latrobe Valley Open Coal Mines - Response to Fires."
20 This draft SOP was placed before the Inquiry by
21 Mr Lapsley, and an examination of it reveals that it
22 contains a detailed protocol for managing carbon
23 monoxide exposure, albeit that it was in draft form and
24 not formalised. It sets out the importance of bringing
25 to the attention of firefighters the dangers of carbon
26 monoxide and the adverse conditions likely to be
27 encountered, and it also makes reference to
28 pre-existing medical conditions that might mean that
29 particular firefighters are more vulnerable to carbon
30 monoxide exposure than others.

12.18PM

12.18PM

12.18PM

31 Disturbingly, the draft before the Inquiry bears

1 the date 29 April 2010. It was nearly four years old
2 at the time of the February 2014 fire and still in
3 draft form. Given the recognition in the CFA report
4 into the 2006 fire of the need to implement just such a
5 protocol for the management of this serious health and 12.19PM
6 safety risk, it is deeply concerning that the SOP had
7 not been finalised and implemented prior to 9 February
8 2014. It's clear that, had it been finalised and
9 implemented, the problems that were experienced
10 particularly during the first week of trying to have in 12.19PM
11 place appropriate procedures and developing them
12 on-the-run in the context of a very difficult fire
13 fight, could have been avoided.

14 Mr Lapsley was candid in his concession that the
15 best explanation for the failure to finalise that draft 12.19PM
16 SOP was that it hadn't been a priority of the CFA to
17 have it signed off. He accepted that on an issue of
18 such importance that was not good enough and that, in
19 light of the experience of earlier fires, the procedure
20 should have been in place ready to be rolled out 12.20PM
21 immediately the fire fight in the mine commenced.

22 Another aspect of the evidence before the Inquiry
23 is that there would appear to be inadequate, perhaps
24 non-existent, procedures in place for the fire
25 agencies, particularly the CFA, to be aware of whether 12.20PM
26 or not its volunteer firefighters may have pre-existing
27 conditions that mean that they should either not be
28 deployed to coal mine fires, or at least they should be
29 provided with information to enable a personal judgment
30 to be made about whether or not deployment is a good 12.20PM
31 idea.

1 It was noted earlier that there are categories of
2 people and, therefore, categories of firefighters that
3 are particularly susceptible to suffering ill-effects
4 from carbon monoxide; these include pregnant women or
5 women of child bearing age and those with pre-existing 12.21PM
6 heart or respiratory conditions, and there is also some
7 evidence before the Inquiry that smokers are a
8 vulnerable group as a result of their higher than
9 normal pre-existing carbon monoxide blood levels.

10 The evidence before the Inquiry is that the CFA 12.21PM
11 has no records of the pre-existing health of its
12 volunteers. The position is different in relation to
13 its career firefighters, where records of health
14 background are available. This is clearly a cause for
15 concern that the CFA deploys its volunteer firefighters 12.21PM
16 to mine fires where they are likely to be exposed to
17 carbon monoxide without any knowledge of any
18 pre-existing susceptibility those volunteers may have.

19 This matter was raised with Mr Lapsley, the Fire
20 Services Commissioner, and his response was that 12.21PM
21 historically the approach that had been taken was that
22 volunteers with such conditions were required to
23 self-manage. The evidence of the two volunteers the
24 Inquiry has heard from, Mr Lalor and Mr Steley, was
25 that they were provided with little, if any, 12.22PM
26 information in advance of their deployment to the mine.
27 It will be recalled that they were both from brigades
28 some distance from Morwell and that they had no
29 personal prior experience of fighting fires in mines
30 and knew little of what they were in for, if I can put 12.22PM
31 it that way.

1 It's clear that any decision to self-manage has to
2 be an informed decision - that is, for self-management
3 to work, the person who is self-managing must have a
4 full understanding of the risks involved.

5 Clearly, the deployment of firefighters in these
6 vulnerable groups to a fire fight where they're likely
7 to be exposed to carbon monoxide compromises
8 potentially the health and safety of those firefighters
9 but also of their colleagues who might have to attend
10 and evacuate an affected firefighter.

12.22PM

12.23PM

11 We also note that, in addition to carbon monoxide
12 exposure, there were other safety issues that arose in
13 the context of the fire fight for firefighters,
14 including batter stability and water contamination, and
15 there is evidence in Mr Lapsley's statement and also
16 the statement of Mr Kelly from WorkSafe about the way
17 in which those risks were managed.

12.23PM

18 Turning to the question of carbon monoxide
19 exposure, management of that risk by GDF Suez in
20 relation to its own employees: It was noted earlier
21 that a number of GDF Suez mine employees were also
22 hospitalised due to carbon monoxide exposure. It was
23 also noted that the recommendation from the 2006 fire
24 report squarely raised the need for the development of
25 a procedure for dealing with carbon monoxide for mine
26 workers, just as it did in relation to firefighters.

12.23PM

12.24PM

27 The 2008 report - that is, two years after that
28 fire - noted that the recommendation about the
29 development of a Carbon Monoxide Protocol within GDF
30 Suez had only been partly implemented. There's
31 evidence before the Inquiry from Mr Dugan that that was

12.24PM

1 a reference to a page in the mine fire instructions
2 that addressed this issue in general terms.
3 Mr Harkins, it will be recalled, said that in
4 accordance with those instructions mine workers were
5 provided with carbon monoxide monitors, canaries he 12.24PM
6 called them, during the fire fight and they were also
7 required to comply with the CFA's testing regimes which
8 have been discussed above.

9 Mr Harkins conceded that the instructions that
10 were in place for GDF Suez' employees in February of 12.25PM
11 this year were extremely general. He accepted that
12 there was definitely room for improvement in GDF Suez's
13 management of carbon monoxide exposure.

14 It is perhaps fortunate that GDF Suez was able to
15 provide protection to its own employees by piggybacking 12.25PM
16 in a sense on the CFA's procedures that were in place
17 from 14 February.

18 The final aspect of the factual findings that
19 Counsel Assisting submit ought be made in relation to
20 this topic concerns the attendance of the Victorian 12.25PM
21 WorkCover Authority at the mine in response to
22 notifications to it that mine workers had been
23 suffering from carbon monoxide exposure. Those
24 notifications are attached to Mr Kelly's statement and
25 it will be recalled that Mr Kelly, who heads-up the 12.26PM
26 Earth Resources Unit within WorkCover, that is the unit
27 that's responsible for the regulation of health and
28 safety in mines, told the Inquiry that there had been
29 visits to the mine on 14 February and also 21 February
30 where WorkCover Inspectors were dealing specifically 12.26PM
31 with this issue of carbon monoxide exposure.

1 On both of those occasions the Earth Resources
2 Unit Inspector was accompanied by an Occupational
3 Hygienist, Mr Grayson, who is also an employee of
4 WorkCover, albeit not part of that unit but part of
5 their general Inspectorate. Mr Kelly was not 12.26PM
6 personally involved in those inspections, and in those
7 circumstances was unable to advise the Inquiry about
8 what standards were being used by WorkCover Inspectors
9 in assessing whether the arrangements in place were
10 sufficient and adequate to meet the obligations of the 12.27PM
11 Occupational Health and Safety Act. The Inquiry was
12 subsequently provided with a letter which informed it
13 that the standards were the Safe Work Australia
14 exposure standards, the 30 ppm level that was referred
15 to earlier. 12.27PM

16 On each occasion that the WorkCover Inspectors
17 attended they were satisfied that what was in place
18 complied with the requirements of the Occupational
19 Health and Safety Act. It's already been noted that
20 there is an ongoing investigation by WorkCover's 12.27PM
21 enforcement group in relation to that matter.

22 Turning then to the commendations that Counsel
23 Assisting submit are appropriate in this matter: The
24 first is that the CFA, the MFB and GDF Suez are to be
25 commended for deploying air carbon monoxide and 12.28PM
26 carboxyhaemoglobin monitoring for firefighters once the
27 risk of the exposure of firefighters and mine employees
28 to carbon monoxide was detected. As with a number of
29 the commendations that we submit ought be made in
30 respect of environment monitoring and health matters, 12.28PM
31 it's important to recognise what was done, but at the

1 same time noting that it was in some respects too
2 little, too late, and it was done on the run. I'll
3 return to that in relation to the criticisms we say
4 ought be made.

5 The second commendation returns to the question of 12.29PM
6 Safety Officers. It is very pleasing to see,
7 especially after the evidence that was led at the Black
8 Saturday Royal Commission where so many Incident
9 Management Teams were set up without Safety Officers,
10 that having regard to the important role that Safety 12.29PM
11 Officers play under the AIIMS system, here at this fire
12 fight, with the possible exception of the first two
13 days, 9 and 10 February, all of the Incident Management
14 Teams made extensive use of Safety Officers and
15 advisors to assist in addressing these difficult issues 12.29PM
16 and for that the fire agencies are commended.

17 It will be recalled that Mr Lapsley gave evidence
18 at the end of the first week of the Inquiry that there
19 remains an issue about there being sufficient numbers
20 of properly trained Safety Officers within the fire 12.29PM
21 agencies, and he indicated to the Inquiry that that's a
22 matter that's firmly on his agenda and it's pleasing to
23 see that that's a matter that continues to be addressed
24 as it's obviously very important in this area.

25 Turning then to the criticisms that Counsel 12.30PM
26 Assisting submit ought be made: The first is that the
27 Country Fire Authority should have responded well
28 before February 2014 to the recommendations in its 2007
29 report into the 2006 fire at the Hazelwood Mine by
30 developing a procedure for dealing with exposure to 12.30PM
31 carbon monoxide during firefighting. It should not

1 have been the case that this procedure was being
2 developed alongside having to deal with a very
3 difficult and vast fire fight at the mine. Similarly,
4 GDF Suez should have had in place a comprehensive
5 procedure for managing the exposure of its employees to
6 carbon monoxide during a mine fire. 12.30PM

7 Finally, in responding to carbon monoxide exposure
8 at the Hazelwood Mine Fire, the fire agencies
9 demonstrated poor communication, confusion,
10 policy-on-the-run and sub-optimal responses and in the 12.31PM
11 proposed findings we have detailed the basis for that
12 criticism.

13 Turning then to the recommendations that Counsel
14 Assisting submit ought to be made in relation to
15 firefighter safety: The first is that the Emergency 12.31PM
16 Management Commissioner should, with the assistance of
17 the Chief Health Officer, the EPA and WorkCover,
18 develop a Firefighting Carbon Monoxide Protocol. The
19 protocol ought to be finalised by November 2014 and so
20 it would be in place for the forthcoming fire season. 12.31PM
21 Before being finalised, the protocol should be reviewed
22 by an independent panel appointed by the Emergency
23 Management Commissioner and the protocol should specify
24 the types of monitoring equipment to be used, frequency
25 and types of locations suitable for monitoring, how the 12.32PM
26 results will be assessed to provide information for
27 decision-making, the trigger levels for action for the
28 general community and those in specific risk
29 categories, and response actions according to each
30 trigger level. 12.32PM

31 Importantly, the Firefighting Carbon Monoxide

1 Protocol should be developed in tandem with the
2 Community Carbon Monoxide Protocol which is
3 Recommendation 9 in the Environmental and Health
4 section referred to earlier. Once finalised, it should
5 be widely disseminated in the Victorian coal mining 12.32PM
6 industry and other industries in which carbon monoxide
7 poisoning is likely to occur in a fire or similar
8 situation.

9 The second recommendation is that GDF Suez should
10 adopt and apply the Firefighting Carbon Monoxide 12.32PM
11 Protocol.

12 Finally, the CFA, MFB and GDF Suez should
13 highlight the risks of carbon monoxide poisoning to
14 firefighters with pre-existing respiratory or cardiac
15 conditions or who may be pregnant. This should occur 12.33PM
16 during recruitment, selection, training deployment of
17 both employed and volunteer firefighters at the start
18 of each fire season to address the knowledge gap
19 identified earlier. Firefighters should be encouraged
20 to self-disclose if they have a pre-existing 12.33PM
21 respiratory or cardiac condition or if they are a
22 female of child bearing age, whether they are or could
23 be pregnant.

24 Before deploying to an incident, firefighters
25 should again be reminded of these risks. A short 12.33PM
26 educational video should be developed and made
27 available, and it will be recalled there was evidence
28 that such a video could be played, for example, in the
29 staging area before firefighters are deployed onto the
30 fire ground. 12.34PM

31 Unless any Members of the Board have any questions

1 about those matters, I'll move on to the fourth topic
2 which is mitigation and prevention.

3 As Ms Richards has already indicated, mitigation
4 and prevention of fires in mines is obviously a
5 crucially important topic. The third of the terms of 12.34PM
6 reference that the Board has to consider is the
7 adequacy and effectiveness of the application and
8 administration of relevant regulatory regimes in
9 relation to the risk of and response to fire at the
10 Hazelwood Coal Mine. 12.34PM

11 The Board may recall the evidence of Professor
12 Cliff in relation to the difficulties associated with
13 putting out brown coal mine fires as if it was
14 necessary given all of the other evidence about the
15 difficulties faced by the fire agencies here. 12.35PM

16 Professor Cliff's response to those difficulties in his
17 report was quite a simple one, and that is, it's far
18 better to avoid brown coal mine fires than have to try
19 and work out how to put them out.

20 Ms Richards said earlier that the best way to 12.35PM
21 address a coal mine fire is to put it out early and of
22 course that's true, but without wanting to be seen to
23 disagree with my learned leader, the best way to deal
24 with a brown coal mine fire is not to have them in the
25 first place and that's why prevention is obviously so 12.35PM
26 important.

27 In this part of our submissions we set out in the
28 same manner the proposed findings that ought be made as
29 well as commendations, criticisms and recommendations.
30 Because of the complexity of the regulatory regime that 12.36PM
31 exists in Victoria, the proposed findings are quite

1 lengthy, but it is important to have a proper
2 understanding of the regulatory framework.

3 If I can start then with the regulatory framework
4 in relation to the regulation of mines: As we know,
5 mining in Victoria is regulated under the Mineral 12.36PM
6 Resources (Sustainable Development) Act. One of the
7 purposes of that Act is to establish a legal framework
8 aimed at ensuring that the health and safety of the
9 public is protected in relation to work being done
10 under a licence. The Board will have noted that there 12.36PM
11 was a deal of evidence given by Ms White from the Mine
12 Regulator and Mr Niest from the WorkCover Authority
13 about their attitudes to regulation of the risk of mine
14 fires, and will return to that, but it's important not
15 to lose sight of that basic starting point, that the 12.36PM
16 legislation that regulates mining has as one of its
17 objects the protection of the health and safety of the
18 public in relation to work being done under a mining
19 licence.

20 The principal form of regulation under that Act is 12.37PM
21 a licensing regime, and we know that GDF Suez has held
22 a licence since 1996, a 30-year licence. The Act is
23 regulated by the Earth Resources Regulation Branch of
24 the Department of State Development, Business and
25 Innovation, DSDBI, and in accordance with the manner 12.37PM
26 that the issue was approached earlier in the Inquiry,
27 I'll refer to that branch as "the Mine Regulator",
28 whilst noting that since 1 January 2008 the Victorian
29 WorkCover Authority has also had a role as Regulator
30 for occupational health and safety in mines. 12.37PM

31 In addition for the requirement to be the

1 licensed, the Act under s.40, the Mineral Resources
2 (Sustainable Development) Act, requires the licensee to
3 have an approved work plan to undertake mining work.
4 The head of the department approves a work plan which
5 may be varied and conditions may be imposed about the 12.38PM
6 way in which work is carried out.

7 The evidence indicates that until 2010 there was a
8 requirement for a work plan to address occupational
9 health and safety. That requirement was removed from
10 the relevant regulations in that year as part of the 12.38PM
11 transfer of responsibility for regulating occupational
12 health and safety in mines from the Mine Regulator to
13 WorkCover and I will return to that issue.

14 The Mine Regulator was asked what its
15 responsibility was in relation to mitigating the risk 12.38PM
16 of fire in open cut mines. The answer given by
17 Ms White on behalf of the Mine Regulator was very
18 clear; it has none, she told the Inquiry. According to
19 Ms White the lead agency for managing fire risk in the
20 worked out batters of the mine is the WorkCover 12.39PM
21 Authority.

22 Turning then to the role the WorkCover Authority
23 plays under the regulations in operation in Victoria,
24 it's fair to say that the regulation of occupational
25 health and safety in mines in Victoria, the history of 12.39PM
26 that regulation is complex. Ms White's statement sets
27 it in out in some detail.

28 Of particular significance to this Inquiry is a
29 report commissioned by the Victorian Government in 2006
30 which recommended the transfer of regulatory 12.39PM
31 responsibility for OH&S in mines from the Mine

1 Regulator where it sat at the time to the WorkCover
2 Authority. The Inquiry has before it a copy of that
3 report from Neil Pope. In the report, the
4 recommendations of which were accepted by the
5 government, Mr Pope recommended that transfer and it
6 did took effect on 1 January 2008.

12.39PM

7 It's important to note that the principal piece of
8 legislation administered by WorkCover, the Occupational
9 Health and Safety Act 2004, includes a very different
10 regulatory model from that which exists under the
11 Mining Act. It's not predicated on licensing and
12 approval of work plans.

12.40PM

13 As Mr Niest explained to the Inquiry, the
14 Executive Director of Health and Safety at the
15 WorkCover Authority, the Act is based on what he called
16 the "Robens Model" of regulation, a reference to an
17 English report from 1970. The adoption of this model,
18 Mr Niest told us, involved a shift from detailed
19 prescriptive standards to a more self-regulatory and
20 performance based approach.

12.40PM

12.40PM

21 As he explained it, instead of describing how to
22 do or not to do something, the Act requires the owner
23 of the risk, referred to as the duty holder, to take
24 responsibility to achieve the desired outcome. It will
25 be recalled that Mr Niest in his evidence referred to
26 the owner of the risk being required to manage it in
27 accordance with the regulatory scheme.

12.41PM

28 For present purposes the main provision of the
29 Occupational Health and Safety Act is s.23 and, because
30 there has been a deal of evidence about it, it's
31 probably worth reminding ourselves of its contents. It

12.41PM

1 provides that, "An employer must ensure, so far as is
2 reasonably practicable, that persons other than
3 employees of the employer are not exposed to risks to
4 their health or safety arising from the conduct of the
5 undertaking of the employer."

12.41PM

6 It's necessary to briefly refer to two other
7 provisions of the Act to better understand that. The
8 first is s.20 which addresses the concept of
9 "reasonably practicable", and it provides that, "Where
10 a duty such as s.23 requires a person to ensure, so far
11 as is reasonably practicable, health and safety, that
12 requires the person to eliminate risks to health and
13 safety so far as is reasonably practicable and, if it's
14 not reasonably practicable, to eliminate risks to
15 health and safety to reduce those risks so far as is
16 reasonably practicable."

12.41PM

12.42PM

17 Finally, there is a principle of health and safety
18 protection in s.4 to which reference should briefly be
19 made which is as follows, "The importance of health and
20 safety requires that employees, other persons at work
21 and members of the public be given the highest level of
22 protection against risk to their health and safety that
23 is reasonably practicable in the circumstances."

12.42PM

24 With that brief understanding of the Act in mind,
25 it is necessary to look briefly at the evidence before
26 the Inquiry about how WorkCover sees those provisions
27 applying in the circumstances of the subject matter of
28 the Inquiry, a fire in the worked out part of the
29 Hazelwood Mine.

12.42PM

30 Mr Niest was asked about the application of s.23
31 to the fire before the Inquiry. His evidence on the

12.43PM

1 issue, it is submitted, is difficult to follow and
2 appears to be internally contradictory. He was asked a
3 direct question about WorkCover's view about whether
4 the 2014 mine fire arose from the conduct of the
5 undertaking of the operator of the mine. His 12.43PM
6 unambiguous answer was, "No". He explained that that
7 view is because, "The undertaking is to extract brown
8 coal from the earth and transport the brown coal to a
9 power station. There is nothing in that conduct that
10 caused the fire." 12.43PM

11 Counsel Assisting submits that this seems to be an
12 unduly narrow approach to the operation of s.23 of the
13 Occupational Health and Safety Act. Surprisingly, it
14 also seems to be inconsistent with what the Inquiry has
15 been told is an ongoing investigation into the fire 12.44PM
16 that is being conducted by the Victorian WorkCover
17 Authority itself. There is before the Inquiry a
18 statement from Mr Watson, who's the Manager,
19 Investigations of the Victorian WorkCover Authority and
20 he's advised the Inquiry that WorkCover has commenced 12.44PM
21 an investigation into the fires that burned at the
22 mine.

23 It seems that there are two parallel
24 investigations being carried out by WorkCover; the one
25 relating to carbon monoxide exposure and focusing on 12.44PM
26 whether or not the fire agencies met their duty under
27 the Act, and also an investigation into the fire
28 itself, presumably to determine if GDF Suez met its
29 obligations under the Occupational Health and Safety
30 Act. 12.44PM

31 These matters are certainly of far more than

1 passing interest to the Inquiry because the application
2 of s.23 is highly significant as it defines the
3 regulatory reach of the Victorian WorkCover Authority
4 in relation to risks to public safety as a result of
5 mine fires. It's recognised that WorkCover's role must 12.45PM
6 necessarily be limited by s.23 of the Act.

7 If Mr Niest's narrow view, what Counsel Assisting
8 say is a narrow view of s.23, is accepted, that the Act
9 does not apply to fires in worked out parts of mine,
10 then it follows that there may well be a gap in the 12.45PM
11 regulatory framework. That is because of the clear
12 evidence given to the Inquiry by Ms White from the Mine
13 Regulator about the Mine Regulator's attitude to the
14 regulation of mine fires - that is, that it's the
15 province of the Victorian WorkCover Authority. 12.45PM

16 It seems to Counsel Assisting that there are two
17 issues here that need to be grappled with: There's a
18 legal issue about the construction of s.23 and there's
19 a factual issue about whether, having regard to that
20 construction, the evidence before the Inquiry indicates 12.46PM
21 that a fire in the worked out batters of the mine falls
22 within s.23.

23 We submit the legal issue is relatively
24 straightforward. Without going into the detail of the
25 cases that have interpreted s.23, those cases indicate, 12.46PM
26 we submit, that s.23 and also equivalent provisions in
27 other similar statutes have been interpreted broadly
28 and in a matter that is consistent with the objects of
29 the Occupational Health and Safety Act. They also
30 indicate, we submit, that generally speaking where an 12.46PM
31 activity or an event occurs at the place at which the

1 undertaking is carried out, it will be considered to
2 arise from the conduct of the undertaking. We have
3 referred in our submissions at footnote 27 to the
4 relevant cases as we see them.

5 We also submit that the factual issue identified 12.46PM
6 is not particularly complex. The northern batters of
7 the mine, as the extensive evidence before the Inquiry
8 shows, are in no sense non-operational. It's been
9 explained by witnesses such as Mr Faithfull of GDF
10 Suez, the extensive infrastructure on and around the 12.47PM
11 northern batters, for example high voltage powerlines,
12 pipes, watering systems and geotechnical monitoring
13 equipment, is integral to the mine's operations. The
14 presence of this infrastructure is said to be one of
15 the main reasons why the area cannot be rehabilitated 12.47PM
16 prior to the end of mining operations.

17 Counsel Assisting submit that, despite the
18 evidence of Mr Niest, the Inquiry should conclude that
19 the risks to public safety that arose from the fire in
20 the worked out northern batters of the Hazelwood Mine 12.47PM
21 are risks that arose from the conduct of the
22 undertaking of GDF Suez. However, even if that
23 submission were to be accepted by the Inquiry, in the
24 light of the evidence of Mr Niest of the WorkCover
25 Authority and Ms White of the Mine Regulator, it is 12.48PM
26 still necessary to consider the important question of
27 whether there is a gap in the regulation of mines in
28 Victoria.

29 Mr Niest was asked directly if he thought there is
30 a regulatory gap and he said, "Yes, there may be." In 12.48PM
31 fairness, he subsequently gave evidence which seemed to

1 suggest that he thought there may not be a gap, but
2 ultimately he recognised that any such gap needed to be
3 filled.

4 He was asked directly who the Regulator was in
5 respect of public safety that was unrelated to the
6 conduct of the mine's undertaking, and he told the
7 Inquiry that he was unaware of the identity of the
8 Regulator in relation to that matter.

12.48PM

9 Counsel Assisting submit that, on the basis of the
10 evidence before the Inquiry and a proper understanding
11 of the regulatory regime that there is a gap in the
12 regulatory regime, although it's perhaps not as wide as
13 would be the case if one accepted Mr Niest's narrow
14 interpretation of the operation of s.23. We will
15 return to what should be done about filling the gap in
16 the recommendations that we propose ought be made.

12.48PM

12.49PM

17 Before doing that, it's necessary to say a little
18 about Part 5.3 of the Occupational Health and Safety
19 Regulations 2007. It's been noted that the
20 Occupational Health and Safety Act imposes duties on
21 employers, including of course GDF Suez, but there are
22 also duties imposed by the regulations and they are
23 important in the context of this Inquiry.

12.49PM

24 The starting point is a recognition that the mine
25 is a prescribed mine for the purposes of the
26 regulations. What that means is that it must comply
27 both with the general requirements set out in Part 5.3,
28 which apply to all mines whether prescribed or not, as
29 well as the more onerous obligations that are imposed
30 only on prescribed mines.

12.49PM

12.50PM

31 Under those provisions GDF Suez was and is

1 required to identify all mining hazards at the mine and
2 to assess the risks to health or safety of any person
3 associated with those hazards, to adopt risk control
4 measures that eliminate, so far as is reasonably
5 practicable, any risks to health and safety or, if it's 12.50PM
6 not reasonably practicable to eliminate such risks, is
7 required to reduce those risks so far as is reasonably
8 practicable. It is also required to review and, if
9 necessary, revise each of - and that should read
10 (a)-(d) there in paragraph (e) above, after any 12.50PM
11 incident involving a mining hazard occurs at the mine.
12 Finally, it's required to conduct a comprehensive and
13 systematic safety assessment of all major mining
14 hazards. The Inquiry heard evidence about major mining
15 hazards. 12.51PM

16 What is clear is that a fire explosion that could
17 cause a risk to health or safety is included in the
18 definition of a mining hazard under the regulations.
19 It is submitted that this clearly included and includes
20 a fire in the worked out parts of mine. Such fires may 12.51PM
21 also be major mining hazards in that they have the
22 potential to cause an incident that would cause or pose
23 a significant risk of it causing more than one death.

24 As the evidence before the Inquiry indicates, the
25 difference between a major mining hazard and a mining 12.51PM
26 hazard is not always an easy distinction to apply in
27 practice.

28 The evidence before the Inquiry is that the
29 WorkCover Authority has concentrated its regulatory
30 approach on compliance by GDF Suez with 12.51PM
31 Regulation 5.3.23 in relation to mine fires that meet

1 the definition of major mining hazards. The Inquiry
2 will recall that Inspector Hayes of WorkCover was one
3 of a team of three who carried out an audit at the mine
4 in 2012 in relation to this matter. He issued an
5 Improvement Notice as a result of the findings of the 12.52PM
6 audit, requiring GDF Suez to comply with
7 Regulation 5.3.23, and some months later when he
8 returned to the mine, in October 2012, he concluded
9 that there had been compliance.

10 In his evidence before this Inquiry he conceded 12.52PM
11 that he may not have checked on compliance with all
12 aspects of Regulation 5.3.23, and in particular an
13 examination of the documents produced in response to
14 the Improvement Notice suggests that the matters set
15 out in Regulation 5.3.23(4) (c)-(e) about the process by 12.53PM
16 which risk controls were determined is not addressed in
17 that material.

18 In his report to the Inquiry, Professor Cliff, a
19 health and safety in mining expert from the University
20 of Queensland, questioned whether GDF Suez had complied 12.53PM
21 with the regulation. However, it is noted that he
22 modified his view on this matter in light of further
23 information provided to him after his report was
24 completed.

25 Crucially for this Inquiry, Counsel Assisting 12.53PM
26 submit that there is no evidence that, as part of its
27 attempt to comply with Part 5.3 of the regulations, GDF
28 Suez assessed the risk of a fire in the worked out
29 batters of the mine as required by Regulation 5.3.7.

30 Whatever may be the position in relation to 12.54PM
31 compliance with Regulation 5.3.23 concerning major

1 mining hazards, Counsel Assisting submit that there is
2 a question about compliance with Regulation 5.3.7 in
3 relation to the assessment of risks and appropriate
4 controls being put in place to deal with the risk of
5 fires in the worked out batters or worked out parts of
6 the mine. 12.54PM

7 As Professor Cliff explained, the failure to
8 address this issue seems to be because the focus of GDF
9 Suez was on multiple fatality under the major mining
10 hazard definition. Professor Cliff's attention was 12.54PM
11 drawn to the evidence of Mr Polmear of GDF Suez about
12 minimum compliance with the Fire Service Code, a matter
13 to which I'll return. Professor Cliff's response to
14 that was, "Compliance with the code is not thinking,
15 you just follow the recipe. It doesn't evaluate the 12.55PM
16 risk or the effectiveness of anything, it's just, do as
17 you're told."

18 Counsel Assisting submit that the evidence before
19 the Inquiry suggests that GDF Suez did not assess the
20 risks associated with fire in the worked out batters of 12.55PM
21 mine in accordance with Regulation 5.3.7(1), did not
22 control those risks in accordance with
23 Regulation 5.3.7(3) and, as a result, failed to review
24 those measures after the fire in a non-operational part
25 of the mine in September 2008 as it was required to do 12.55PM
26 by Regulation 5.3.9(2) (b).

27 What is particularly concerning is that the
28 internal investigation into the September 2008 fire
29 conducted for GDF Suez by consultants GHD highlighted
30 the need for this very risk to be addressed. At page 4 12.55PM
31 of that report its authors, GHD, noted that, "The

1 significant factor in this fire [the 2008 fire] was the
2 escalation to an uncontrollable fire within a short
3 time due to mine personnel being unable to mount an
4 effective initial response as the non-operational areas
5 have very difficult access and there were insufficient 12.56PM
6 firefighting facilities available."

7 That finding informed a recommendation that was
8 made to GDF Suez, Recommendation 6, which was, "A risk
9 assessment should be undertaken on the non-operational
10 areas to determine if further prevention work is 12.56PM
11 required. The risk assessment should include a
12 cost-benefit analysis."

13 Given that on the evidence before the Inquiry
14 there are some obvious similarities between the 2008
15 fire and the 2014 fires, it is of considerable concern 12.56PM
16 that GDF Suez did not conduct such a risk assessment as
17 was recommended. Had it been done and appropriate
18 control measures implemented in accordance with the
19 outcome of the assessment and the requirements of the
20 regulations, to which reference has been made, the 2014 12.57PM
21 fires in the worked out areas of the mine may not have
22 occurred. Even if they had occurred, they may not have
23 had the catastrophic impact that they in fact had.

24 The evidence before the Inquiry, we submit,
25 establishes that a risk assessment of the 12.57PM
26 non-operational areas of the mine was not undertaken
27 between December 2008 and 9 February this year. This
28 is notwithstanding the recommendation to do it that
29 I've referred to, but also an internal audit that was
30 conducted by GDF Suez's Mine Technical Compliance 12.57PM
31 Manager, Mr Kemsley, in 2012. Mr Kemsley in his audit

1 in 2012 concluded that Recommendation 6, the one that's
2 just been referred to from the 2008 report, had not
3 been implemented - that is, that the risk assessment
4 recommended had not been completed.

5 The Inquiry has before it a statement from 12.58PM
6 Mr Prezioso and it will be recalled that Mr Prezioso
7 gave evidence towards the end of last week on this
8 topic. In his statement he identifies a number of
9 steps that were taken subsequent to the 2008 fire to
10 identify hot spots and some other relevant matters. 12.58PM
11 However, he ultimately conceded that no risk assessment
12 had been conducted as recommended and he was unable to
13 advise the Inquiry if the issues identified in
14 Mr Kemsley's 2012 audit had been revisited since that
15 time. 12.59PM

16 It's noted that Mr Kemsley remains employed by GDF
17 Suez - that's the evidence before the Inquiry - and
18 there's been no reason advanced for why he hasn't given
19 evidence. Given the focus of the Inquiry on the
20 failure by GDF Suez to implement this vital 12.59PM
21 recommendation from its 2008 report, it is surprising
22 that the Inquiry has not had heard from Mr Kemsley.

23 Before leaving the topic of this 2008 report, it
24 is necessary to refer briefly to the evidence before
25 the Inquiry about the Regulator's awareness of the 12.59PM
26 report - that is, the VWA. It is to be recalled that
27 the VWA assumed responsibility for regulating health
28 and safety in mines on 1 January 2008 and this fire
29 occurred on 14 September 2008. The evidence before the
30 Inquiry is that a VWA Inspector attended at the mine on 01.00PM
31 both 16 and 22 September in response to being notified

1 of the fire.

2 On the second of those visits the Inspector was
3 informed that an environmental and engineering
4 consultancy firm, GHD, had been contracted to
5 investigate the fire incident. The evidence is that 01.00PM
6 WorkCover never asked for a copy of the report and, as
7 a result, obviously they are in no position to monitor
8 the implementation by GDF Suez with the
9 recommendations. It is most unfortunate that that
10 opportunity was not taken up by the Regulator. 01.00PM

11 The approach of WorkCover in relation to that
12 report stands in stark contrast with the evidence of
13 what the Mine Regulator did in a similar situation some
14 two years earlier in relation to a report into the 2006
15 fire. Ms White explained to the Inquiry that an 01.01PM
16 Inspector of her Department issued an Improvement
17 Notice to GDF Suez in February 2007 requiring it to
18 comply with the recommendations made by GHD in its 2006
19 report, and the Inquiry was advised that this led to a
20 review by GDF Suez of its Fire Policy and Code of 01.01PM
21 Practice which was one of the recommendations made.

22 I note the time, I'm about to go on to another
23 topic.

24 CHAIRMAN: All right, we'll resume at 2.

25 LUNCHEON ADJOURNMENT

01.44PM

26
27
28
29
30
31

1 UPON RESUMING AT 2.20 P.M.:

2 MR ROZEN: If the Board pleases. We'd reached a point
3 before the luncheon adjournment where I think I'd got
4 to paragraph 43 of the findings in our outline in
5 respect of the fourth topic. I've been considering the 02.03PM
6 regulatory structure in Victoria in relation to mines
7 and health and safety, and then I had discussed the
8 issue of compliance, GDF Suez with the regulations and
9 the implementation by it of recommendations from
10 previous fires. 02.04PM

11 If I could turn then to the issue of fire
12 mitigation practices by GDF Suez itself which is a
13 matter raised for the Inquiry by the second of its
14 terms of reference.

15 Although there's been a good deal of concentration 02.04PM
16 on the regulatory structure and the implementation of
17 the regulatory structure by the regulators, it is
18 important to bear in mind Professor Cliff's observation
19 from his report that a focus on any failures of
20 regulation should not obscure that the primary 02.04PM
21 responsibility for the management of risk rests with
22 GDF Suez's and not the Inspectorate.

23 The evidence before the Inquiry is that a work
24 plan for the Hazelwood Mine was approved by the Mine
25 Regulator in September 1996 and it's been varied 02.04PM
26 several times with the most recent variation taking
27 place in 2009. The approved work plan for the mine
28 reflected the work plan submission which had been
29 submitted by the Hazelwood Power Corporation in June
30 1995. There are two clauses in that submission, and 02.05PM
31 the submission of course ultimately became the approved

1 work plan which are relevant to fire mitigation.
2 Clause 7.4 deals with the Bushfire Mitigation Program
3 which I won't read out, and 7.7 deals with the Fire
4 Protection Policy.

5 Under the heading "Fire Protection Policy", the 02.05PM
6 submission and therefore the approved work plan states
7 as follows, "HBC adheres to the Latrobe Valley Open Cut
8 Mines - Fire Service Policy and Code of Practice
9 issued April 1994. The Fire Service Policy and Code of
10 Practice contains the essential requirements and 02.05PM
11 operating procedures for fire protection services for
12 the mine and its surrounding area. An extensive
13 network of water reticulation and sprays has been
14 established in the mine for fire protection." Then
15 there's a reference to figure 13A, "Fire Service 02.06PM
16 network schematic." This has been referred to in
17 evidence before the Inquiry, it's a schematic that
18 depicted the fire reticulation pipe network in place in
19 the mine at the time; that is, at the time of the
20 approval in 1996 and it depicted a network that 02.06PM
21 surrounded the mine.

22 This has already been referred to today by my
23 learned friend, Ms Richards, but the evidence before
24 the Inquiry establishes that the reticulated water
25 network at the mine was extensively altered from about 02.06PM
26 1995 onwards, extensive particularly in the area of the
27 northern batters.

28 The evidence of Mr Polmear from GDF Suez is to the
29 effect that the pipes that were removed were in the
30 northern batters part of the mine. Mr Polmear 02.06PM
31 explained that the pipes which were removed were

1 corroded and unserviceable, and Counsel Assisting
2 submit that it ought be accepted that that was a
3 legitimate basis for their removal. However, the more
4 important question is why the pipes were not replaced
5 once they were removed.

02.07PM

6 It will be recalled that Mr Polmear was asked this
7 and his answer is, "They didn't need to be in
8 accordance with the policy." The policy referred to by
9 Mr Polmear is the Fire Service Policy and Code of
10 Practice issued in April 1994.

02.07PM

11 The Inquiry heard from a bushfire fire expert,
12 Mr Incoll, and he explained, "The effective cover of
13 exposed coal surfaces with water sprays requires a
14 reticulation system capable of delivering water in the
15 volumes required for dampening down of exposed coal in
16 all sectors of the mine."

02.07PM

17 It's important to appreciate that the reticulated
18 water supply in a mine such as the open coal mine at
19 Hazelwood serves at least two purposes; firstly, it
20 serves the purpose of being able to prevent fires, that
21 is the wetting down of the coal surfaces on high fire
22 danger days reduces the risk of a fire starting in the
23 first place. The Inquiry's heard from a number of
24 witnesses right back to Mr Brown on day one, about the
25 historical wetting down of the coal surfaces so as to
26 prevent fires. Of course, the piped water also assists
27 in the suppression of fires once they are started, so
28 the pipe network clearly serves a dual purpose both in
29 relation to prevention and suppression.

02.08PM

02.08PM

30 Returning to Mr Incoll's evidence, he noted that
31 the difference between the pipe work in 1996 and that

02.08PM

1 in 2014 indicated that the northern batters supply is
2 no longer in place. It is of course recognised that
3 during the fire fight itself considerable additional
4 pipe work was placed in the northern batters area,
5 which an examination of the maps before the Inquiry
6 shows that the pipe work that was reinstated was in
7 much the same area as where the pipe work had been
8 removed.

02.09PM

9 Returning to the policy that Mr Polmear referred
10 to, it has, since 1994, set out minimum requirements
11 for fire protection in the worked out batters. The
12 words "minimum requirements" are important because that
13 is just what the code stated, they are the minimum for
14 fire protection. The current requirements are in s.3.4
15 of the most recent iteration of the document, the 2013
16 Code which is before the Inquiry. The principal
17 requirement is to have tanker filling points located in
18 positions such that a tanker on any part of the worked
19 out batters is within five minutes travel of a tanker
20 filling point.

02.09PM

02.09PM

02.09PM

21 On the evidence before the Inquiry, it is unclear
22 if even this minimum requirement was met by GDF Suez.
23 Mr Polmear believed it had when he was asked. He
24 assumed that some testing had been done to confirm
25 compliance but no document evidencing such testing has
26 been placed before the Inquiry.

02.10PM

27 In any event, tanker fill points are only relevant
28 to fire suppression, not its prevention. What is
29 needed for prevention, as Mr Incoll explained, is
30 either covering of the batters with soil or some form
31 of fire retardant or water to wet down the worked out

02.10PM

1 batters on days of high fire danger.

2 Perhaps of greater significance is what

3 Mr Polmear's evidence reveals about the historical

4 approach of GDF Suez to its responsibilities to manage

5 the risk of fire in the worked out parts of the mine. 02.10PM

6 The Inquiry has heard that Suez is certified to

7 Australian and New Zealand Standard 4801 concerning

8 occupational health and safety systems. Despite that,

9 there's no evidence that GDF Suez conducted any risk

10 assessment to examine whether the removal of the 02.11PM

11 pipes - that is the evidence of Mr Polmear -

12 contributed to a reduction in the level of fire

13 preparedness or mitigation and hence of safety.

14 As Professor Cliff explained in his evidence to

15 the Inquiry, the failure of GDF Suez to assess the 02.11PM

16 risks associated with the removal of pipework is both

17 unacceptable and inconsistent with the approach to be

18 expected of a company certified under Australian

19 Standard 4801. As Professor Cliff said, "To say we

20 don't do it because we don't have to is not a 02.11PM

21 management technique."

22 The evidence is that the policy was updated by GDF

23 Suez in the years after privatisation. The Mine

24 Production Manager, Mr Dugan, explained that the 2013

25 iteration of the Mine Fire Service Policy and Code of 02.11PM

26 Practice is based on the 1994 document which in turn is

27 based on the 1984 SEC Latrobe Valley Open Cuts Fire

28 Service Policy. Mr Lapsley's attention was drawn to

29 this evidence - that is, that the present code dates

30 back to a 30-year-old document and he described that as 02.11PM

31 "amazing".

1 From Counsel Assisting's perspective, it is at the
2 very least concerning that what's in place currently is
3 really no more than an updated version of a document
4 that was produced 30 years ago in circumstances where
5 it applied to all three of the open cut mines which 02.12PM
6 were then of course being run by the SEC. I will
7 return to this issue in our recommendations.

8 Surprisingly, the removal of the pipe network on
9 the northern batters was not the subject of an
10 application to vary the work plan. It will be recalled 02.12PM
11 that the work plan includes a schematic of the pipe
12 work as it existed in 1995.

13 Ms White of the Mine Regulator gave evidence that
14 such work would have to be by way of a variation to the
15 work plan. However, she also agreed with the 02.12PM
16 proposition advanced by counsel for GDF Suez that, as
17 long as the standards in the 1994 code continued to be
18 met, that would constitute compliance with the
19 requirements of Clause 7.7 of the approved work plan.
20 Ms White also told the Inquiry that, as far as the Mine 02.13PM
21 Regulator was concerned, GDF Suez had not breached any
22 of the provisions of the Mineral Resources (Sustainable
23 Development) Act. Counsel Assisting submits that, on
24 the basis of the evidence before the Inquiry, that
25 conclusion would appear to be correct. 02.13PM

26 Turning then to some recent amendments to the
27 Mineral Resources (Sustainable Development) Act which
28 are of significance as far as future management of
29 these risks is concerned. The Act is the subject of
30 recent amendments of significance for the Inquiry. The 02.13PM
31 Mineral Resources (Sustainable Development) Amendment

1 Act 2014 amends the Mineral Resources (Sustainable
2 Development) Act by inserting a new s.40. S.40 is the
3 provision concerned with the requirements for there to
4 be a work plan.

5 This is a complicated set of amendments to 02.14PM
6 understand. Summarising them the best we can, there is
7 essentially two sequential amendments to s.40 that are
8 affected by the Amendment Act. The first is affected
9 by s.16 and it need not concern us, but that amendment
10 takes effect on 1 November this year. More importantly 02.14PM
11 is s.16 which further amends s.40 by inserting a new
12 subsection (3). This further amendment will not be
13 operative until 31 December 2016 unless it is earlier
14 proclaimed. The Inquiry will recall the evidence given
15 by Ms White about the need for there to be regulations 02.14PM
16 in place before those amendments take effect.

17 Importantly, once s.16 of the Amendment Act is
18 proclaimed a work plan will be required, among other
19 things, to identify the risks that the work may pose to
20 the environment, to any member of the public or to land 02.15PM
21 or property in the vicinity of the work, and specify
22 what the licensee will do to eliminate or minimise
23 those risks as far as reasonably practicable. I will
24 return to the significance of those amendments in terms
25 of the recommendations that Counsel Assisting submits 02.15PM
26 ought to be made to ensure that in the future these
27 risks are appropriately managed.

28 Before doing that I need briefly to refer to the
29 topic of Integrated Fire Management Planning which has
30 been the subject of some evidence before the Inquiry 02.15PM
31 and is obviously an important part of the fire

1 prevention and mitigation puzzle.

2 The evidence before the Inquiry is that integrated
3 Fire Management Planning occurs relevantly at both
4 regional and local level. Mr King, the Coordinator of
5 Emergency Management at Latrobe City Council gave 02.16PM
6 evidence that Integrated Fire Management Planning
7 involves looking in more depth at risks associated with
8 fire on an all-agencies approach and including the
9 owners of the critical infrastructure.

10 The Inquiry has before it the Gippsland Regional 02.16PM
11 Strategic Fire Management Plan and also at the local
12 level the 2011 and 2013 Latrobe Municipal Fire
13 Prevention Plans. Of significance to the Inquiry is
14 the question of effective implementation of these
15 plans. The evidence suggests the plans are not 02.16PM
16 implemented at all, nor have they been reviewed by the
17 affected agencies to check that the suggested
18 treatments are possible or within the jurisdiction of
19 the agencies referred to.

20 Mr Incoll dealt with the issue in his standard 02.16PM
21 common-sense way, he said, "There's no enabling
22 legislation that says, "Once you've made that plan,
23 here's how it's going to be implemented." Mr Lapsley
24 gave similar evidence and so did Mr King from the
25 council. 02.17PM

26 Mr Lapsley was asked if he could assist in
27 relation to providing an answer and he suggested the
28 first step was to modernise the legislative basis for
29 Fire Management Planning, and Counsel Assisting accepts
30 Mr Lapsley's characterisation of Integrated Fire 02.17PM
31 Management Planning as a necessity. The Inquiry ought

1 note his commitment in his new role as Emergency
2 Management Commissioner to continue to drive the
3 process.

4 The evidence before the Inquiry was that the Mine
5 Regulator plays no role in Integrated Fire Management 02.17PM
6 Planning at any level. Ms White of the Mine Regulator
7 said it was the responsibility of the VWA. Mr Niest of
8 the VWA saw no problem with the VWA not being referred
9 to as one of the existing treatments in the regional
10 plan. His evidence was, the plan was concerned with 02.18PM
11 the protection of infrastructure and was not concerned
12 with health and safety in the workplace. It is
13 submitted that this response demonstrates the gap in a
14 practical sense that exists in Integrated Fire
15 Management Planning. 02.18PM

16 On a related topic, there is some evidence before
17 the Inquiry about s.43 of the Country Fire Authority
18 Act and it will be recalled that it imposes a general
19 duty on councils and public authorities to take all
20 practicable steps to prevent the occurrence of fire and 02.18PM
21 minimise the danger of the spread of fire. It's an
22 historical anomaly that before privatisation that
23 provision applied to the Hazelwood fire. Subsequent to
24 privatisation it does not. It is submitted that the
25 position is anomalous; that the only reason the 02.18PM
26 provision has no application to a piece of critical
27 infrastructure like the Hazelwood Mine and Power
28 Station is because they're not publicly owned. This is
29 the subject of a recommendation which I will come to.

30 I note that Mr Lapsley agreed with the suggestion that 02.19PM
31 consideration should be given to extending the reach of

1 s.43 along the lines suggested, which is that it ought
2 to apply to critical state infrastructure regardless of
3 whether it's publicly or privately owned.

4 If I could turn to the important topic of filling
5 the regulatory gap. It will be recalled that Counsel 02.19PM
6 Assisting's submissions is based on the evidence before
7 the Inquiry that there is a regulatory gap in relation
8 to the impact on public safety of fires that do not
9 arise from the conduct of the undertaking of the mine
10 operator. The evidence in the Inquiry has raised a 02.19PM
11 number of concerns about the manner in which the
12 WorkCover Authority has exercised its regulatory powers
13 in relation to OHS at the mine, particularly concerning
14 the risk of fires in the worked out parts of the mine.

15 We've listed some of those concerns and they do 02.20PM
16 call to mind Professor Cliff's reference in his report
17 to the difficult position a generalist OHS Regulator is
18 in where it's regulating a small mining industry. It
19 will be recalled that Professor Cliff's evidence is
20 that in what he calls the mining states in New South 02.20PM
21 Wales, Queensland and Western Australia there is a
22 dedicated Mines Inspectorate that is concerned with OHS
23 as well as other aspects of regulation of mines.

24 Victoria, like the position in New Zealand, has a
25 generalist OHS Regulator that is responsible for a 02.20PM
26 small number of mines. The reference to New Zealand is
27 significant because Professor Cliff, based on his
28 experience of the Pike River disaster in New Zealand,
29 was able to refer the Inquiry to the difficulties faced
30 there by a very small Department of Labour Inspectorate 02.20PM
31 dealing with a relatively small mining industry.

1 Aspects of the evidence that are concerning in
2 this regard are listed in paragraph 72 of the findings
3 and they include that the large-scale transfer of staff
4 from the Mine Regulator to the VWA that was recommended
5 in the Pope Report didn't occur. No explanation was 02.21PM
6 provided to the Inquiry of why the staff that were
7 recommended to transfer across to VWA, bringing with
8 them obviously the experience and knowledge of the
9 mining industry - with one exception, I think one of
10 the Inspectors did transfer across - but otherwise it 02.21PM
11 seems that didn't happen.

12 Similarly, it seems, the transfer of files.
13 There's a recommendation in the Pope Report that there
14 be electronic access to the Mine Regulator's files.
15 The evidence of Inspector Hayes was that he did not 02.21PM
16 have access to pre 1 January 2008 files. There is also
17 the evidence of the failure to monitor the
18 implementation of the recommendations in the 2008 GHD
19 Report that were referred to earlier, and finally,
20 there is the less than thorough manner in which the 02.22PM
21 question of compliance with Regulation 5.2.23 by GDF
22 Suez was examined or overseen in that process referred
23 to earlier.

24 Both Mr Niest and Ms White were asked about the
25 future of the regulation of fire in the mine. Mr Niest 02.22PM
26 accepted that his Earth Resources team at the VWA
27 needed to be supported with systems safety specialists
28 to assist them in judging whether the risks are being
29 properly controlled. He's committed to addressing this
30 deficiency, as he perceives it, in the WorkCover 02.22PM
31 Authority and that is a matter that is to be commended.

1 Ms White suggested the Mine Regulator, the VWA and
2 the fire agencies could come together to discuss what
3 possible changes were needed. She also made a number
4 of suggestions concerning the rehabilitation timetable,
5 while noting that rehabilitation can have an indirect
6 effect on mitigating fire risk. 02.23PM

7 Ms White also accepted that the amendments to s.40
8 of the Act she administers that were discussed above
9 will require a licensee to engage in, "A much broader
10 assessment of risks than we currently have now with the
11 work plan that I have to currently oversight." 02.23PM

12 Counsel Assisting submits that the amendments to
13 s.40 of the Mineral Resources (Sustainable Development)
14 Act provide an opportunity for the Mine Regulator to
15 re-engage with regulation of the risk of fire in the
16 mine generally and in the worked out areas of the mine
17 specifically. 02.23PM

18 It is our submission that it has been an
19 unfortunate and perhaps unforeseen side effect of the
20 transfer of occupational health and safety regulation
21 to the VWA that the issue of public health and safety
22 has been given far less priority than it should have
23 been. The inclusion of risk management in approved
24 work plans provides an opportunity for this to be
25 addressed. 02.24PM

26 It's relevant in this regard that the test in the
27 new s.40(3)(c) is consistent with that used in the
28 Occupational Health and Safety Act and the regulations;
29 that is, risks will be required to be controlled so far
30 as is reasonably practicable. This should enable the
31 Mine Regulator and the VWA to approach their respective 02.24PM

1 regulatory tasks consistently.

2 It may be said that, if this approach is followed
3 through, that there will and an overlap between the
4 areas of responsibility of the Mine Regulator and the
5 VWA in this regard. To that observation Counsel
6 Assisting make the simple response that it was
7 preferable to have an overlap than for there to be a
8 gap.

02.24PM

9 One thing that is of concern is the timeframe for
10 the implementation or the coming into operation of the
11 new provision. The evidence before the Inquiry is that
12 the amendment may not be operational until December
13 2016. The people of the Latrobe Valley, and Morwell in
14 particular, are entitled to see any regulatory gap
15 closed at the earliest opportunity. It is unclear if
16 existing work plans, such as GDF Suez's, will need to
17 be revised to meet the new requirements.

02.25PM

02.25PM

18 Ms White was asked about this and informed the
19 Inquiry that there will be a transitional phase but it
20 is not entirely clear what is envisaged. The Amendment
21 Act at the moment does not provide any detailed answer
22 to that question.

02.25PM

23 Significantly, Ms White also noted that the
24 changes will, "Flag a very strong intention to change
25 the approach to work plans, and given that this is
26 already in the public domain I would consider that a
27 mine operator would consider this in light of what they
28 are doing today."

02.25PM

29 Counsel Assisting submit that the impending change
30 to s.40 and the requirement to address risk in a
31 broader way in work plans presents a real practical

02.26PM

1 opportunity for the industry, and GDF Suez in
2 particular, to seize this opportunity to put into
3 effect some of the things that Mr Graham said were
4 being examined in the evidence that he gave to the
5 Inquiry. To use a colloquial expression, it's an
6 opportunity for GDF Suez to put its money where
7 Mr Graham's mouth is. It is to be hoped that GDF Suez
8 grasp that opportunity.

02.26PM

9 We also submit that the Inquiry should ask the
10 Victorian Government to bring forward the commencement
11 date of s.16 so that it commences as soon as possible.
12 If work on regulations has to be done, it's difficult
13 to see why that should take two and a half years given
14 the significant risks that this Inquiry has been
15 examining.

02.26PM

02.27PM

16 We also consider that the changes present an
17 opportunity for GDS to give effect, as I have said, to
18 the commitments made by Mr Graham; that is, to embrace
19 a best practice, continuous improvement approach
20 throughout the mine, including the worked out areas,
21 rather than the minimum compliance approach about which
22 evidence has been given.

02.27PM

23 Before turning to the proposed commendations and
24 criticisms, I'll refer briefly to land use planning; it
25 is an area about which evidence has been given to the
26 Inquiry and Counsel Assisting note that there's a large
27 gap between the fire protection policies outlined in
28 the Latrobe planning scheme and the reality of land use
29 in the vicinity of the mine as the Inquiry has heard
30 about. It is trite to say there's no buffer zone
31 between the mine and the town of Morwell despite the

02.27PM

02.27PM

1 provisions of the planning scheme requiring a buffer
2 zone of up to 1,000 metres. It's also noteworthy that
3 there are at least three timber plantations within
4 a kilometre of the mine licence area, and disturbingly,
5 as Mr Incoll emphasised, they're all to the west of the 02.28PM
6 mine, perfectly located to enable them to catch fire
7 and potentially throw embers into the mine.

8 Although the scheme currently provides that a
9 permit is required for timber plantations in the
10 Special Use Zone and the Public Use Zone, the council 02.28PM
11 has no records of permits being issued in respect of
12 the plantations.

13 Land use planning can be an effective means of
14 reducing fire risk, but it's a long-term measure and
15 can only operate prospectively. It should at least be 02.28PM
16 possible to ensure that no further timber plantations
17 are established in close proximity to open cut coal
18 mines, particularly in the vicinity of their western
19 perimeter.

20 Turning then to the commendations that Counsel 02.29PM
21 Assisting submit ought be made. Firstly, GDF Suez is
22 commended for recognising, through the evidence of
23 Mr Graham, that it needs to adopt a new approach to the
24 management of risk of fire in the worked out batters of
25 its Hazelwood Mine. The Inquiry has before it a 02.29PM
26 document prepared by Mr Graham which he spoke to, and
27 it will be recalled that it was a document of
28 relatively recent origin and it's apparent that a great
29 deal more work needs done, particularly in relation to
30 internal discussion of that within GDF Suez and 02.29PM
31 external communication with regulatory agencies and

1 others, but it is a commendable start.

2 Secondly, the VWA is commended for recognising
3 that its Earth Resources Unit needs additional
4 resources to fulfil its functions under the regulations
5 in the Act that it administers. 02.29PM

6 Turning to criticisms: Firstly, GDF Suez is
7 criticised for not meeting its obligations under the
8 Occupational Health and Safety Regulations to assess
9 the risks associated with fire in the worked out
10 batters of the mine in accordance with 02.30PM
11 Regulation 5.3.7, to control those risks in accordance
12 with Regulation 5.3.7, and to review those measures
13 after the fire in a non-operational part of the mine in
14 September 2008 as required by Regulation 5.3.9(2)(b).

15 GDF Suez should have implemented Recommendation 6 02.30PM
16 of the GHD Report into the September 2008 fire by
17 conducting a risk assessment into the risk of fire in
18 the non-operational parts of the Hazelwood Mine.

19 Thirdly, GDF Suez, as an international company
20 accredited to Australian Standard 4810, should not have 02.30PM
21 adopted the approach of minimum compliance to the risk
22 of fire in the worked out batters of its Hazelwood
23 Mine, but rather, should have taken a full risk
24 assessment of key risks to the mine and possible
25 controls to minimise the likelihood or consequence of 02.31PM
26 the various risks occurring.

27 Turning then to the proposed recommendations and
28 there are seven: The first is that GDF Suez should
29 ensure that it embraces a sound enterprise risk
30 management framework that considerably enhances a more 02.31PM
31 sophisticated corporate culture in respect of the

1 management of risks. And, as has been noted,
2 Mr Graham's evidence to the Inquiry would seem to
3 suggest that there is a recognition that that is
4 desirable.

5 2. GDF Suez should engage reputable external 02.31PM
6 consultants to conduct a thorough risk assessment of
7 the likelihood and consequences of the risk of fires in
8 the worked out batters of the Hazelwood Mine. The
9 assessment must considerate the most effective fire
10 protection for the exposed coal surfaces, including 02.31PM
11 final rehabilitation, water coverage, coverage by earth
12 or some other substance, treatment with a fire
13 retardant or a combination of these or other
14 approaches. GDF Suez should implement the suggestions
15 in the report concerning the controls and treatments to 02.32PM
16 minimise the impact of the risk.

17 3. GDF Suez should thoroughly review its Mine
18 Service Policy and Code of Practice to ensure that,
19 taking a risk assessment approach, it is suitable for
20 mitigation, prevention and suppression of fires in all 02.32PM
21 parts of the mine. The reviewed policy should as a
22 minimum address the regular removal of vegetation - a
23 matter discussed by Mr Incoll - the ability to prevent
24 and suppress any fires that commence or burn into the
25 worked out parts of the mine; the use of thermal 02.32PM
26 detection and other imaging technologies by which fires
27 can be spotted as soon as they commence, and the ready
28 availability of compressed air foams that are capable
29 of operating in an open cut mine environment supported
30 by camera and other technologies. The review document 02.32PM
31 ought to be incorporated into the approved work plan

1 for the mine.

2 Turning to the regulatory structure: From the
3 date upon which s.16 of the Mineral Resources
4 (Sustainable Development) Amendment Act 2014 commences,
5 the issues of fire pretension, mitigation and 02.33PM
6 suppression should again be addressed in approved
7 plains under the Mineral Resources (Sustainable
8 Development) Act 1990. This will mean, importantly,
9 that from that time both the DSDBI and the VWA are
10 responsible for regulating the risk of fire in mines, 02.33PM
11 the DSDBI being able to bring its extensive mines
12 expertise and the VWA drawing on its occupational
13 health and safety management expertise.

14 5. The Emergency Management Commissioner should
15 assume responsibility for Integrated Fire Management 02.33PM
16 Planning in Victoria from 1 July 2014 and should
17 sponsor legislation that will underpin Integrated Fire
18 Management Planning and provide legislative authority
19 for the development and implementation of regional and
20 municipal Fire Management Plans. 02.34PM

21 6. Section 43 of the Country Fire Authority Act
22 should be amended so that it applies to essential State
23 infrastructure such as the Hazelwood Mine and Power
24 Station, whether they're in private or public
25 ownership. 02.34PM

26 7. The final recommendation we submit ought to be
27 made is that the Department of Transport, Planning and
28 Local Infrastructure and the Latrobe City Council
29 should review the Latrobe planning scheme to ensure
30 that, so far as is reasonably practicable, it minimises 02.34PM
31 the risk of embers from external rural fires, in

1 particular timber plantations, from flying into open
2 cut coal mines in the Latrobe Valley.

3 They're the submissions that we make in relation
4 to this matter and, unless there are any questions that
5 Members of the Board have about the topics that I've
6 addressed, it's probably time to give the parties a
7 chance to say something.

02.34PM

8 MEMBER CATFORD: I just had one question, Mr Rozen, about
9 again this sense of urgency, whether you have a view
10 about timelines or speed of action?

02.35PM

11 MR ROZEN: I anticipated you might ask that question,
12 Professor Catford. Most of the recommendations that we
13 make in the two topics that I've addressed - that is,
14 firefighter safety and the regulatory arrangements -
15 are recommendations really which ought to be addressed
16 as a matter of urgency.

02.35PM

17 The one recommendation where that may not be
18 possible concerns the coming into operation of the
19 Amendment Act and including in approved work plans the
20 matters of fire risk and other risk management. It
21 would be hoped that that could be addressed, if there's
22 some flexibility about the commencement timeframe for
23 those amendments. Thank you. If the Board pleases.

02.35PM

24 MS NICHOLS: If the Board pleases. May I start by making
25 some general observations about Environment Victoria's
26 position and the approach I intend to make to these
27 submissions. Environment Victoria submits that the
28 fire itself, or at least the extreme extent of it, was
29 avoidable. It was avoidable by the adoption of
30 mitigation measures, and by the adoption of those same
31 mitigation measures a repetition of the event in the

02.36PM

02.36PM

1 future can be greatly reduced, or the prospect of that
2 can be greatly reduced.

3 Environment Victoria has a limited remit in terms
4 of its grant of leave. We are granted leave in
5 relation to the question of mitigation and we do not
6 intend to repeat what has been submitted by Counsel
7 Assisting. On the question of mitigation and the
8 regulatory issues associated with mitigation,
9 Environment Victoria adopts and supports the
10 submissions of Counsel Assisting.

02.37PM

02.37PM

11 I will focus in these submissions on the question
12 of rehabilitation of the mine. It's Environment
13 Victoria's submission that rehabilitation of the mine
14 is a powerfully effective tool to protect the community
15 against the risk that happened in February 2014 from
16 ever happening again. There is no doubt the obligation
17 of GDF Suez, that it had to progressively rehabilitate
18 the mine, can be accelerated and there is no good
19 reason why it should not be accelerated for the purposes
20 of mitigating fire risk.

02.37PM

02.37PM

21 A sensible question and a necessary one is, what
22 is a good and practicable way to de-risk a brown coal
23 mine against fire risk? In our submission
24 rehabilitation, meaning accelerated progressive
25 rehabilitation, is a solution which must be given
26 considerable weight when answering that question, in
27 short for these reasons: Its risk mitigation potential
28 is both powerful and well known, and once it's done,
29 it's done in the parts of the mine in which it occurs.

02.38PM

30 Second, it's a tried and true method in which the
31 operator of the mine has undoubted expertise; it's not

02.38PM

1 new, it's known.

2 Third, it's already the subject of a statutory
3 obligation. That obligation, as has been acknowledged
4 by GDF Suez in its evidence, is the quid pro quo for
5 the licensee's right to dig coal out of the ground and 02.39PM
6 it do it in such close proximity to the township of
7 Morwell. It's a core obligation under the Act to
8 progressively rehabilitate in the course of doing the
9 work. Mr Faithfull accepted that that obligation was,
10 in his words, "Part and parcel of being a community 02.39PM
11 wise and environmentally wise mining business."

12 Rehabilitation costs money and it's complex, like
13 every other aspect of mining. A lot has been said
14 about cost and it's really cost that's implicitly
15 behind the resistance of GDF Suez and aspects of the 02.39PM
16 regulatory regime to accelerate rehabilitation. It's
17 not suggested that cost is irrelevant, it's not
18 suggested for a moment, but in basic terms there are
19 some fundamental economic relationships that need to be
20 observed, in our submission. 02.40PM

21 First, what happened in February of this year was
22 one of the worst public health and environmental
23 disasters in the State's history. The costs to the
24 community were vast and there is, of course, if
25 mitigation measures are not taken, a risk of repetition 02.40PM
26 carrying with it risks of very significant costs.

27 On the question of costs, the costs of
28 rehabilitation is a cost that the mining company must
29 already incur. Of course, there are incremental costs
30 attached with doing it sooner, accelerating it, but 02.40PM
31 those have not been quantified. There's not been a

1 scintilla of evidence from GDF Suez about how much more
2 it will cost to do it more quickly.

3 The third element of cost is that there is
4 presently much less financial incentive on GDF to
5 accelerate remediation than there could be, and there 02.41PM
6 is much less financial incentive on it to get the job
7 done in its entirety before the mining licence
8 finishes, and that's the issue of the rehabilitation
9 bond. Rehabilitation as a fire mitigation measures has
10 affirmative support from some important witnesses. 02.41PM

11 Mr Lapsley said that, "To improve the efficacy of
12 the current fire risk mitigation measures there should
13 be a review of the rehabilitation regimes in and
14 adjacent to the mine for mitigating entering and
15 leaving the fire mine site." That is an important 02.41PM
16 piece of evidence before the Board, it is submitted.

17 Mr Niest accepted, after being cross-examined,
18 that the question of reasonable practicability was not
19 off the table when it came to rehabilitation for the
20 purposes of mitigating fire risk. 02.42PM

21 Ms White from DSDBI accepted and welcomed the
22 potential enhancement of the powers under which her
23 Department operates to include rehabilitation
24 specifically for the purposes of fire risk. It's
25 really GDF alone who is not really offering anything 02.42PM
26 more than what it was previously doing.

27 In these submissions it is accepted that the Board
28 must necessarily focus on solutions for the future and
29 it's in that context that we do make some criticisms
30 and do submit that the Board make some criticisms about 02.42PM
31 events that have happened in the past, but that is for

1 the purpose of improvement rather than for blame.

2 The question of rehabilitation and its role in
3 things is necessarily tied to aspects of the regulatory
4 regimes, and for that reason we make some submissions
5 about parts of those regimes. 02.43PM

6 We submit that the Board needs to take a
7 multi-pronged approach. It's not really a question of
8 whether there is one single right way of fixing fire
9 risk. Rather, amendments to the regulatory regime and
10 recommendations attaching to GDF need to be as fulsome 02.43PM
11 and multi-faceted as is possible. We say this for
12 these reasons: Both the mine operator and the
13 regulators have evidenced a tendency to too readily
14 draw demarcation lines around their particular area of
15 operation and to ignore the question of fire risk. 02.43PM

16 The other reason is that, on the question of
17 rehabilitation, if we may say so with respect, the
18 attitude of the mining company is that it's all too
19 hard, it's too difficult, it's very costly and we would
20 prefer to stick to our plan. 02.44PM

21 It's necessary that some of the recommendations
22 that the Board will ultimately make will need to
23 provide for further reviews and Inquiries. An
24 important theme of the evidence in our submission is
25 that in the past reviews Inquiries and processes have 02.44PM
26 really been exactly that - reviews, Inquiries and
27 processes and they have not really led in many cases to
28 practical outcomes. For that reason, Environment
29 Victoria goes further than Counsel Assisting do on the
30 question of recommendations concerning rehabilitation 02.44PM
31 of the mine. In our submission the Board ought insofar

1 as it can be pointed, practical and specific in its
2 recommendations.

3 We've indicated to Ms Richards that we will
4 supplement our oral submissions in writing. Given
5 that, I will just refer in fairly general terms to the 02.45PM
6 evidence so as not to take too much time. We will also
7 in our written submissions set out the precise
8 recommendations that we propose, however I will address
9 those orally as well.

10 Having made those general remarks, there are 10 02.45PM
11 propositions that in our submission support a very
12 serious consideration in relation to rehabilitation of
13 the mine for the purpose of preventing fire risk. I
14 hope that you're not alarmed by the No.10 because I can
15 go through them quite quickly. 02.45PM

16 The first proposition is this: Fire was a
17 reasonably foreseeable consequence of unrehabilitated
18 batters. I don't need to go into the evidence
19 supporting that proposition because it has been done by
20 Counsel Assisting. Suffice it to say that, in our 02.45PM
21 submission, there appears to have been significant
22 institutional knowledge failure on behalf of the
23 operators of the mine. The risks to the community of
24 Morwell were never taken seriously.

25 A statement from Mr Graham exemplified that 02.46PM
26 attitude when he said in giving evidence, "Now it has
27 been proved that this thing can happen." That sort of
28 attitude, we say with respect, completely
29 misunderstands the role of risk management. Both DSDBI
30 and the Victorian WorkCover Authority were also 02.46PM
31 sufficiently aware of the relevant risks.

1 The second proposition is that there is a very
2 clear link on the evidence between rehabilitation of
3 the mine and mitigation of fire risk. The evidence,
4 and I mention it only briefly, comes from Mr Incoll who
5 said that "exposed earth needs to be covered by earth";
6 Mr Cliffe/Mr Niest, who accepted that covering coal is
7 good for fire risk mitigation; Mr Faithfull and,
8 importantly in the work plans of 1996, 2009 and
9 passingly in the work plan of 2013.

02.47PM

10 It's really quite unsurprising that in the work
11 plan of 2009 there's a very clear link drawn between
12 rehabilitation of batters by covering them with
13 overburden and fire risk. It's because that's a very
14 natural connection. The risk is caused by stripping
15 away earth from coal batters, it's fixed by
16 rehabilitating the mine. The alacrity with which both
17 GDF Suez and the regulators thought to step away from
18 s.6.5 of the work plan was breathtaking.

02.47PM

02.47PM

19 The third proposition is that there is a
20 fundamental obligation to progressively rehabilitate on
21 the mining operator, but that obligation has in
22 practical terms been attenuated by a very weak
23 rehabilitation plan that contains no real milestones.
24 The obligation to progressively rehabilitate is a core
25 obligation under the Act. It finds its effect in the
26 mining licence. But in that context what has happened
27 is that the substance and effect of the obligation
28 necessarily depends on the quality of the work plan.
29 The licence ties progressive rehabilitation, of course,
30 to an approved work plan.

02.48PM

02.48PM

02.48PM

31 The 2009 work plan, in short, allows four stages

1 of overburden rehabilitation and it's tied to the
2 availability of overburden within the mine. That is
3 one important consideration, but in our submission it
4 ought not be the only consideration. What it means is
5 that progressive rehabilitation is not required to be 02.49PM
6 done until, on the most optimistic view, overburden
7 becomes available as a by-product for mining
8 operations. That document is a key regulatory
9 document.

10 The most stunning example of there being no clear 02.49PM
11 milestones in that plan was exhibited in the difference
12 of view between Ms White of DSDBI and GDF Suez when, on
13 the very important question of when the next phase of
14 rehabilitation would be done, there were diametrically
15 opposed views and, according to Mr Faithfull, the 02.50PM
16 Regulator's expectation had never been discussed. If
17 ever there was an example of the cooperative form of
18 regulation breaking down, that is it, and it needs to
19 change, in our submission.

20 The fourth proposition is that the attitude of GDF 02.50PM
21 Suez on the question of rehabilitation has been one of
22 blindness to the obvious link between rehabilitation
23 and fire risk mitigation. Mr Faithfull's evidence was
24 important on this score. He is the person practically
25 in charge of rehabilitation, and rehabilitation very 02.50PM
26 obviously is the most major practical significantly
27 effective means of mitigating fire risk. When he was
28 asked about the 2009 plan, he didn't recognise it,
29 barely. He had not turned his mind to the link between
30 fire and rehabilitation. When he was asked about the 02.51PM
31 alternatives for fire risk mitigation he accepted that

1 there were two; extinguishment or insulation. His
2 working assumption was that, where batters are not
3 covered, they will be covered by the Fire Service, but
4 he had made no enquiry about whether the Fire Service
5 would operate effectively.

02.51PM

6 Proposition 5 is that the complexities and costs
7 described as impediments to rehabilitation are not
8 really impediments, they're simply complexities and
9 costs that occur in the nature of a mining enterprise
10 and are intrinsic to rehabilitation. They are not such
11 as should, in my respectful submission, encourage you
12 not to make strong recommendations about
13 rehabilitation.

02.51PM

14 Mr Faithfull agreed that the stages in progressive
15 rehabilitation that he identified in his witness
16 statement must occur ordinarily regardless of when
17 remediation is done. He said that none of the steps
18 identified could not be done in a progressive sense, he
19 simply said that it was costly and complicated. He
20 asserted in very general terms that there would be
21 increased costs if the progress of rehabilitation was
22 taken out of synch with the existing mining plan.

02.52PM

02.52PM

23 Now, it doesn't take long to imagine why it is
24 important that the progress of winning coal needs to
25 have a good relationship with rehabilitation. It
26 doesn't follow however, in my submission, that one can
27 never change a plan for rehabilitation, including by
28 looking at the plan for mining coal itself.

02.52PM

29 There were no particulars provided about the
30 incremental cost, and on so-called practical
31 constraints, when Mr Faithfull was asked about whether

02.53PM

1 or not he could or couldn't move infrastructure, which
2 was a major reason apparently for not accelerating
3 rehabilitation, he said, "I haven't checked."

4 One of the issues was the availability of
5 overburden. There is a high proportion of coal to 02.53PM
6 overburden in the Hazelwood Mine. Ideally GDF Suez
7 position is that it would want to use the overburden
8 that is close to the areas that it is rehabilitating.
9 That is an understandable preference, but in our
10 submission preferences cannot always be met, and that 02.53PM
11 preference is not a reason to assume that, because of
12 the availability of overburden, rehabilitation cannot
13 be accelerated or the sequence in which it be done
14 changed.

15 Proposition 6 is that there is in fact a clear 02.54PM
16 opportunity to change the rehabilitation plan and to
17 accelerate it. Just pausing on the question of
18 overburden. Ms White said, interestingly, that DSDBI
19 had been discussing, I think with VWA, whether it would
20 be possible to get overburden from the overburden dump 02.54PM
21 within the mine. The Board is not in a position
22 presently to know the results of those conversations
23 and they did sound rather preliminary, but that is a
24 question that is being asked and in our submission
25 should be asked. It is clearly possible to investigate 02.54PM
26 whether there are other sources of overburden, whether
27 overburden for example can be obtained from parts of
28 the mine and used to rehabilitate other than simply in
29 the way it is done now, which is that overburden is
30 only obtained in the course of extracting coal and used 02.55PM
31 close to the area in which the coal extraction occurs.

1 Ms White said that she would welcome the
2 opportunity to consider whether the rehabilitation plan
3 can be amended so that rehabilitation can be brought
4 forward. She also said, however, that there are a
5 number of issues to consider, and that GDF are 02.55PM
6 responsible for determining whether and to what extent
7 the program can be brought forward. She made the point
8 that it was GDF who has the technical expertise rather
9 than the Mine Regulator. That's a point that is of
10 real concern. 02.56PM

11 It's not suggested that Ms White's concerns about
12 resources were not valid or genuine. However, if the
13 Mining Regulator does not possess sufficient expertise
14 to keep ahead of the mine operator, the end result is
15 that from a regulatory perspective no-one is leading 02.56PM
16 and the mine operator has the opportunity really to run
17 its own race. It will necessarily, and on one view
18 quite properly, have at the forefront of its mind its
19 own commercial considerations. But in a context such
20 as this, it is absolutely important in our submission 02.56PM
21 that the Regulator play a leading role.

22 When the Mining Regulator has expressed the view
23 that change is welcome but there is a concern about
24 expertise, and that ultimately the question of whether
25 rehabilitation is brought forward is a question for the 02.57PM
26 mine, that is not in our submission an appropriate
27 state of affairs.

28 On the question of timing, we make two
29 submissions. One is that the schedule for
30 rehabilitation should be the subject of a major review 02.57PM
31 to see what areas of the mine can be rehabilitated

1 sooner, specifically with a view to fire mitigation,
2 and the question about sequencing and the structure of
3 the plan itself be reviewed.

4 On this count it should be noted that what's been
5 offered by GDF in the document put forward by Mr Graham 02.57PM
6 the other day is in fact nothing new. The nine
7 hectares identified to be rehabilitated are those that
8 were already identified for work in January 2014.

9 The second submission we make is that, even if and
10 to the extent that for the time being the existing plan 02.58PM
11 stays in place, there are a number of things that can
12 happen to assist the timing of rehabilitation. First,
13 it's been made pretty clear that the Department expects
14 that, for example, the 2019 phase of remediation should
15 be completed by 2019 subject to the progress of the 02.58PM
16 mining works themselves. GDF has a different
17 understanding. It is preferable in our submission,
18 clearly, that the Department apply a requirement that
19 the works be completed rather than commenced by that
20 date. Within that rubric it is important that the 02.59PM
21 Department impose upon GDF some clear time milestones.

22 It was plain from the evidence of Mr Faithfull
23 that very little has been done, if anything, to
24 progress the next phase of rehabilitation. The four
25 stages of rehabilitation do not all require overburden. 02.59PM
26 Stage 1, for example, involves assessment of stability.
27 That could be done, no reason why it could not. It has
28 not been started and there was no reason why it has not
29 been started. That example illustrates why it is
30 necessary and appropriate in our submission for the 02.59PM
31 Department to start imposing some real milestones that

1 are concrete, that are tied to specific activities, and
2 are based on time.

3 That kind of regulation may not suit the preferred
4 regulatory style of DSDBI, but in our submission it's
5 not appropriate at all for a general preference for a 03.00PM
6 regulatory style to prevent proactive regulation in
7 these circumstances.

8 Proposition 7 is that, there are certainly
9 alternatives to rehabilitation as a fire mitigation
10 measure. Presently these are untested, and the 03.00PM
11 evidence about them before the Inquiry when taken in
12 the context of the evidence about rehabilitation,
13 should lead to the conclusion that a major emphasis on
14 rehabilitation should be made in the Board's findings
15 and recommendations. 03.00PM

16 You will recall the evidence of Mr Faithfull when
17 he was re-examined by Ms Doyle, and he identified in
18 series a number of practical objections and concerns
19 about temporary rehabilitation measures. We don't
20 suggest or submit that those concerns ought be taken at 03.01PM
21 face value at all. However, in contrast to
22 rehabilitation, those measures were said to raise a
23 number of specific issues: Clay capping was said to
24 potentially interfere with access to roads, drains and
25 horizontal bores on the batters. 03.01PM

26 On the question of the system to wet down batters,
27 reticulated water systems are obviously an important
28 consideration. We are not in a position, and I don't
29 think Counsel Assisting are either, to make detailed
30 submissions on what a reticulated water system would 03.02PM
31 look like and how effective it would be to mitigate

1 risk. We do note, however, that considerations might
2 arise to do with electricity supplies to that water
3 system.

4 It is true that technology requires power that can
5 fail at critical times. Rehabilitation, however, 03.02PM
6 although it is complex, although it involves a process,
7 once it is done, it is done.

8 I commenced these submissions by saying the Board
9 should embrace and make recommendations in a
10 multi-pronged approach. It's not our submission that 03.02PM
11 one should make recommendations only about
12 rehabilitation of the mine, but not to make strong
13 recommendations about rehabilitation of the mine would
14 be remiss, and certainly there is no evidence that any
15 alternatives to rehabilitation would be as powerful or 03.03PM
16 as effective as a fire mitigation measure.

17 The eighth proposition we have is that, there have
18 been significant failures or limitations in the
19 regulatory regime which fracture the natural
20 relationship between rehabilitation and mitigation, the 03.03PM
21 effect of which is to effectively allow the mine to run
22 its own race. By failures we mean either limitations
23 in the regime itself or in the way the regime is
24 applied.

25 For the purposes of making recommendations for 03.03PM
26 change, it matters not, however a close analysis of
27 those limitations is important in order to guard
28 against the same kind of errors that have happened in
29 the past. As I said in the beginning, we adopt Counsel
30 Assisting's submissions on the regulatory regime but we 03.04PM
31 do want to make some observations.

1 Prior to the fire neither DSDBI nor VWA considered
2 it was their responsibility to ensure that appropriate
3 fire risk assessment and management was undertaken
4 specifically in the context of the worked out areas of
5 the mine in order to protect the population of Morwell. 03.04PM
6 There is a slight caveat to that in the case of the VWA
7 in that, if it considered that s.23 applied to the
8 operations of the mine in the particular context of the
9 relevant cause of fire, then it would regard itself as
10 having an obligation. 03.08PM

11 The position of DSDBI and Ms White has been
12 summarised by Mr Rozen. The Mining Regulator's
13 position was indeed very stark and perhaps surprising.
14 The position was taken notwithstanding that the
15 objectives listed in s.2 of the Mining Resources 03.08PM
16 (Sustainable Development) Act are, amongst other
17 things, to establish a legal framework aimed at
18 ensuring that mineral and stone resources are developed
19 in ways that minimise adverse impacts on the
20 environment and the community and that the health and 03.08PM
21 safety of the public is protected in relation to work
22 being done under a licence.

23 There was quite concrete examples of risks being
24 made quite plain to the department that appeared in
25 Ms White's witness statement, and that was when the 03.08PM
26 2009 plan was being changed and there were amendments
27 to the Latrobe Planning Scheme. The panel convened to
28 consider the EES, gave great attention to the question
29 of fire risk and it was said that DSE itself had
30 recommended during the course of that Inquiry that 03.09PM
31 batters be flattened and capped for rehabilitation

1 purposes, but also, and I quote from an extract in
2 Ms White's statement, "To achieve the not insubstantial
3 benefit of mitigating the risk of fire."

4 Whilst it is understood that those who have
5 regulated have done so because they take properly a 03.09PM
6 conscientious view about the limitations of the field
7 in which they operate, it is nevertheless quite
8 extraordinary that this kind of risk can be sidelined
9 and effectively ignored because a view is taken about
10 the parameters of the field in which the regulator 03.10PM
11 operates.

12 It is important however, in the context of
13 recommendations, that DSDBI recognise that change could
14 occur and Ms White said she was not unwilling to accept
15 change. It was said however, to quote her, "We don't 03.10PM
16 have fire expertise."

17 Our submission is that, in order to progress
18 rehabilitation as a fire risk mitigation measure, no
19 more fire expertise is needed or no more knowledge is
20 needed than currently exists. The mine operator has 03.10PM
21 all the expertise it needs in rehabilitation and so
22 ought the department. Nothing more needs to be known
23 about the potential for rehabilitation to mitigate fire
24 risk.

25 It's not said, in our submission, that either GDF 03.10PM
26 or the VWA should not obtain extra resources and
27 expertise - in fact, they should. But the acceleration
28 of rehabilitation as a fire risk mitigation measure
29 does not need further expertise; more learning, more
30 knowledge. 03.10PM

31 In answer to a question by Professor Catford about

1 who determines what gets remediated and when, Ms White
2 said in effect that she did not regard her Department
3 as a passive Regulator, but the answer was really that
4 it was the responsibility of GDF for preparing and
5 implementing the plan.

03.10PM

6 Now, that might be true as a matter of
7 technicality, but one must ask again, who leads and who
8 is responsible? Who asks the hard questions? Who
9 thinks outside the square? There is a vacuum here that
10 has had very real consequences and needs to be fixed.

03.10PM

11 Ms White indicated, however, that she welcomed
12 reform, as I have said. Mr Rozen has already addressed
13 s.40(3) and we support Counsel Assisting's submissions
14 and proposed recommendations in that regard.

15 Ms White took a very limited view of her role, and
16 I don't mean this personally, it's a view that
17 represents the Department's position, because of the
18 description of - I say this in the context of
19 rehabilitation - because of the description of what
20 ought to appear in a rehabilitation plan in Schedule 15
21 of the regulations made under the Mineral Resources
22 (Sustainable Development) Act. In our submission,
23 Ms White's reading of that schedule was very limited
24 indeed and a broader reading is more than open and
25 indeed correct. We needn't dwell on that, however,
26 because Ms White said she would be happy for an
27 amendment to be.

03.10PM

03.10PM

03.10PM

28 In the context of the VWA we won't repeat
29 Mr Rozen's submissions, but we do note the very, very
30 narrow interpretation given to s.23 and the qualified
31 answer to the question, "Who protects against the risk

03.10PM

1 of fire?", the answer being, "Well, it depends which
2 precise risk is being protected against."

3 Proposition 9 is that rehabilitation is a
4 reasonably practicable measure for the mitigation of
5 fire risk and at the very least on the evidence before 03.11PM
6 the Board it cannot be excluded as not being a
7 reasonably practicable measure and, as you know,
8 whether it is a practicable measure for mitigation goes
9 to the obligations on GDF under the OH&S Act and
10 regulations. 03.11PM

11 Mr Niest started off putting quite confidently the
12 view that it was likely that rehabilitation and also
13 the construction of a reticulated water system would
14 not be a reasonably practicable measure. So some
15 concern that both of the potential rehabilitation 03.11PM
16 measures were dismissed in this way. Mr Niest's
17 ultimate conclusions were that it could not be
18 concluded that rehabilitation is not a reasonably
19 practical measure that could be used to control the
20 risk of fire in the mine. Mr Niest said that, "Clearly 03.12PM
21 after the fire all of the parameters have changed. It
22 is now known that it can occur so the whole risk has to
23 be re-assessed."

24 One must ask, what really had changed? But
25 focusing on the solutions, at the very least on the 03.12PM
26 evidence, including Mr Niest's evidence, it must be
27 accepted that rehabilitation was a very strong
28 contender for being a reasonably practicable measure.

29 I won't labour the points in s.20(2) in the
30 interests of time, but if I may just remind the Members 03.12PM
31 of the Board about a couple of important pieces of

1 evidence. On the likelihood of a risk eventuating,
2 just going through the factors, Mr Niest agreed that
3 the likelihood of the risk of fire was high. On the
4 question of the availability and suitability of ways to
5 eliminate the risk or reduce the hazard, Mr Niest 03.13PM
6 agreed that it was most relevant that the mining
7 operator itself had identified in its rehabilitation
8 plan that rehabilitation was a way of eliminating fire
9 risk. He also agreed that it was most relevant that
10 the mine owner is committed under its licence to 03.13PM
11 progressive rehabilitation. It's an already existing
12 measure that it must take, it is therefore available.

13 On the question of cost, it was also agreed that
14 it is highly relevant that it is a cost the mine
15 operator must already incur. You will remember the 03.13PM
16 policy document on cost. VWA's policy said, among
17 other things on the question of cost, that once other
18 factors are established safety measures should be
19 implemented unless the cost of doing so is so
20 disproportionate to the benefit in terms of reducing 03.14PM
21 the severity of the hazard that it would be clearly
22 unreasonable to justify the expenditure.

23 Of course, that is a policy document and
24 ultimately the meaning of s.20(2) is a question of
25 statutory construction. However, Mr Niest agreed that 03.14PM
26 was the right way to interpret the relevant costs.
27 Considering the issue more generally, looking outside
28 of the strict matrix of s.20(2) for the purposes of the
29 Board's deliberations, it is our submission that that
30 statement about cost is an appropriate and clear way of 03.14PM
31 encapsulating the relevant considerations.

1 The mine has resisted any suggestion of faster
2 rehabilitation as I said before on what are in our
3 submission vague grounds without any real support. As
4 a matter of logic one can well understand that changing
5 the sequence of rehabilitation will have the result of 03.15PM
6 incurring additional costs. But it's noteworthy that,
7 having heard Mr Graham's evidence, GDF has quite
8 precisely quantified rehabilitation costs and no doubt
9 was in a position to quantify incremental costs but it
10 has not done so. 03.15PM

11 Finally on the question of costs, you will recall
12 that Mr Lapsley confirmed that the costs of the
13 emergency operation were about \$32.5 million. Mr Alan
14 Hall from the Department of Human Services gave
15 evidence that in short the financial assistance 03.16PM
16 provided by the Government was in the range of
17 \$7.35 million. The total calculated costs of the fire
18 is therefore about \$40 million, not taking into account
19 the value of volunteer labour. That is a very relevant
20 metric when considering whatever the incremental costs 03.16PM
21 of doing rehabilitation more quickly might be.

22 I want to briefly address the question of the
23 bond, and I should say I am almost finished. The
24 rehabilitation bond - the facts concerning it are these
25 in short: It's in the amount of \$15 million. It was 03.16PM
26 fixed in 1995. It has not been amended since. It was
27 not amended in 2009 when the area covered by the mining
28 licence was expanded significantly. DSDBI has a
29 current methodology for assessing rehabilitation
30 liability but it has not used it in this instance. 03.17PM

31 The Minister has a power under s.79A of the Act to

1 require a mining operator to assess its liability and
2 to have that liability audited by an independent
3 auditor; that has not been done. DSDBI has engaged in
4 a review process which it started as late as 2010. It
5 stopped it in 2012 and started it again in 2013. 03.17PM
6 There's no suggestion about when that might be
7 concluded.

8 Ms White agreed that it was highly likely the bond
9 was inadequate to cover rehabilitation costs at the end
10 of the life of the mine. Mr Graham volunteered a 03.17PM
11 figure of \$800,000 to remediate nine hectares of land.
12 It's accepted that not every hectare will cost the same
13 because it will be in a different part of the mine and
14 so on. He then disclosed that in fact he thought the
15 costs would be more like \$995,000. 03.18PM

16 On the figures raised by GDF in their
17 cross-examination of Ms White on the area of the mine
18 remaining, if those figures are correct, just applying
19 that to get some sense of the magnitude, it would be at
20 a cost of \$118 million to finish remediation. 03.18PM
21 Mr Graham said he thought that in his budget the
22 numbers were less than \$100 million or 80-something.
23 Clearly there's a vast difference between the amount of
24 the bond and the amount of the remediation costs.

25 In our submission, read properly in its statutory 03.18PM
26 context, which is Part 7 of the Act, the principal
27 purpose of the bond is to shift the risk of uncompleted
28 remediation to the mining operator. It of course
29 serves the purpose also of being an incentive, a very
30 powerful economic incentive to complete remediation. 03.19PM

31 In this regard I won't take time, but I refer to the

1 context being sections 79A, 80, 81 and 82 of Part 7 of
2 the Act.

3 Of course the Minister can recover as a debt any
4 outstanding money if the Minister requires to do the
5 clean up himself, but that leaves the risk of recovery 03.19PM
6 resting on the Victorian taxpayer. This is a
7 situation, in our submission, which is wholly
8 unsatisfactory. Mr Graham argued that the purpose of
9 the bond was, to quote him, "some kind of retainer"
10 which implicitly would cause the mine to be 03.19PM
11 incentivised on the pain of not getting its bond back,
12 but clearly it's a much lesser incentive than it would
13 be if it equated to the outstanding costs of
14 remediation.

15 One must ask rhetorically, why would it be that 03.20PM
16 the Minister would not require an assessment under
17 s.79A of the rehabilitation costs and order its
18 assessment, and why would it not be that the Minister
19 would require the posting of an additional increased
20 bond? The ball in our submission is very clearly in 03.20PM
21 the court of the Minister in this case.

22 Without an adequate bond, the risk remains with
23 the State of Victoria and ultimately the Victorian
24 people. The mining operator is not being required to
25 pay a cost of its operation from which it gains 03.20PM
26 substantial benefit.

27 In conclusion, before I turn briefly to our
28 proposed recommendations, it seems to us that there are
29 some striking facts about the events and the
30 surrounding circumstances for the February 2014 fire. 03.21PM
31 There was a known risk of fire that is a natural

1 consequence of mining and mining so close to the town
2 of Morwell. Unsurprisingly it eventuated. There is a
3 natural connection between fire risk and
4 rehabilitation. The regulatory framework within which
5 this is considered tears those two things apart.

03.21PM

6 There is a rehabilitation plan that has no
7 milestones other than those tied to the mining
8 schedule. On this, the mining operator and the
9 Regulator have diametrically opposing views about what
10 it means. Those views were not apparent through the
11 cooperative regulatory process. They became apparent
12 during the course of this Inquiry. There is an
13 inadequate security bond that has not been revisited
14 since 1995.

03.22PM

15 Finally, both Regulators have adopted an extremely
16 narrow reading of very important empowering Acts and
17 regulations. They have a Memorandum of Understanding
18 that has not delivered a holistic approach to the risk
19 of fire. In this respect regulation is not working.
20 There are, however, real opportunities for improvement
21 that start with revisitation of the rehabilitation
22 plan.

03.22PM

03.22PM

23 It should not be business as usual for the coal
24 mining industry in Victoria after what has happened.
25 The people of Victoria, and in particular the people of
26 Morwell, deserve a lot better. The current system of
27 regulation means that the mine will do as little as
28 possible for as long as it can and the regulatory
29 system permits that. At the moment GDF Suez is being
30 left to balance the costs between itself and the
31 community. It can't really be expected to do that

03.23PM

1 balancing exercise other than in its own commercial
2 interests. That balancing exercise needs not to be
3 left to it because every time the community will come
4 last.

5 By ensuring an appropriate rehabilitation program
6 takes place through good enforcement and a suitable
7 bond, the Inquiry has the opportunity to ensure that
8 the legacy of coal mining in this locality is one of
9 good, cheap power rather than one of environmental
10 destruction and community suffering.

03.23PM

03.24PM

11 Can I mention the recommendations that we propose
12 and, as I've indicated we will provide these in writing
13 to the Inquiry through Counsel Assisting.

14 Firstly on the question of rehabilitation: We
15 support Counsel Assisting's recommendation at
16 paragraph 77 regarding s.40(3). We also suggest, as
17 part of a multi-pronged approach, that amendment be
18 made to Schedule 15 of the Mineral Resources
19 (Sustainable Development) Regulations to specifically
20 require that rehabilitation plans include within work
21 plans for a mining licence consideration of the means
22 by which progressive rehabilitation may mitigate fire
23 risk.

03.24PM

03.24PM

24 Thirdly, it should be recommended that both DSDBI
25 and VWA acquire as a priority the expertise necessary
26 to monitor and enforce compliance with respect to
27 measures to mitigate fire risk.

03.24PM

28 On the rehabilitation plan itself: Environment
29 Victoria proposes first that DSDBI with assistance from
30 external consultants review the 2009 rehabilitation
31 plan and the proposed 2013 plan with a view to the

03.25PM

1 following:

2 First, identifying areas of the mine in which
3 rehabilitation can feasibly be accelerated for the
4 purposes of fire mitigation.

5 Second, determining whether the rehabilitation 03.25PM
6 schedule should be generally amended, examining the
7 role of legitimate operational constraints such as
8 infrastructure, specifically with a review to fire
9 mitigation.

10 Third, to the extent that, and while the existing 03.25PM
11 schedule remains extant, DSDBI clarify its requirements
12 in relation to those areas that are nominated under the
13 current plan and indicate by what time it requires them
14 to be completed. Preference should clearly be given to
15 commencement sooner than later. In that connection 03.26PM
16 DSDBI should require time-based milestones for the
17 achievement of the next planned phase of
18 rehabilitation, and as revised progressively.

19 Finally, DSDBI should specifically investigate the
20 sources of overburden for the use in rehabilitation. 03.26PM

21 Next, at a minimum there should be an annual
22 review of progressive rehabilitation targets to ensure
23 that scheduled rehabilitation is both underway and a
24 planning process for future rehabilitation has
25 commenced. 03.26PM

26 There should be an amendment to the Act to require
27 the public reporting of progressive rehabilitation work
28 plan compliance.

29 Environment Victoria also supports Counsel
30 Assisting's recommendation at paragraph 4.4 of their 03.27PM
31 submissions concerning a full risk assessment of the

1 likelihood and consequences of the risk of fire and the
2 most effective means of fire protection of exposed coal
3 surfaces, including final rehabilitation. The only
4 caveat we make is that we read "final rehabilitation"
5 in counsel's document to include a reference to 03.27PM
6 "progressive rehabilitation".

7 Finally on the rehabilitation bond we propose two
8 recommendations and they work in tandem although they
9 are quite different. First, that the Inquiry recommend
10 that the Minister exercise the power under s.79A to 03.27PM
11 require the licensee to conduct an assessment of its
12 liability and that that assessment be audited.

13 Second, that recommendations be made to support a
14 review of the Department's methodology and the
15 parameters for assessing the quantum of the 03.28PM
16 rehabilitation bond it will accept under s.80,
17 specifically concerning this mine, but we accept that
18 may apply more generally to the mines in Victoria.

19 The relationship between these two recommendations
20 is that under s.79A the mining company will assess its 03.28PM
21 own costs of rehabilitation. The second step deals
22 with what it is that the Department will accept as a
23 rehabilitation bond, because of course there remains
24 the prospect that the Department or the Minister will
25 say, "I will accept a bond that is less than the 03.28PM
26 costs."

27 In our submission, an appropriate way of doing
28 this would be to recommend that the Auditor-General
29 conducts that review. That can be probably done in two
30 ways: (1) that a direct recommendation be made that 03.29PM
31 the Auditor-General conducts that review; or (2) that

1 DSDBI request a review, and that is a mechanism that is
2 clearly available under the Audit Act.

3 If the Board pleases, those are our submissions
4 and if there are no further matters, we thank the Board
5 for the opportunity to make submissions. We were 03.29PM
6 wondering whether we might be excused from further
7 appearance at this point, or alternatively at the end
8 of the day?

9 CHAIRMAN: There's a question.

10 MS NICHOLS: I beg your pardon. 03.29PM

11 MEMBER CATFORD: Ms Nichols, thank you very much, that was a
12 very full exposition on rehabilitation. Of course, you
13 have got leave to discuss other matters. Can I raise
14 this issue about land use planning, whether Environment
15 Victoria has got a view about that particularly with 03.30PM
16 regard to plantations or other vegetation near the
17 mine?

18 MS NICHOLS: I'll just need to get some instructions on
19 that.

20 I can't really assist, other than to say we 03.30PM
21 support Counsel Assisting's submissions. I'm sorry,
22 that's not particularly helpful to contribute an answer
23 to the question.

24 CHAIRMAN: Yes, I see no reason why you should not be
25 excused. 03.30PM

26 MS NICHOLS: Thank you.

27 MR MARSHALL: First, let me thank the Board for allowing us
28 to appear today, thank you very much. My name's Peter
29 Marshall. I'm the National Secretary of the
30 Firefighters Union. We have provided two submissions 03.31PM
31 to the Inquiry, one was on 20 May. I apologise, I

1 don't think it was dated when we sent it, then there
2 was a second submission on 6 June.

3 May I state firstly that, I'm sure this is in
4 agreeance, one of the greatest assets of Victoria is
5 its firefighting staff, in particular the career and 03.31PM
6 volunteer firefighters, I think that's not in question.
7 What is disappointing, though, is that at the moment
8 their concerns are only being voiced through their
9 Union, being the United Firefighters Union.

10 Unfortunately, we've been unable to bring to your 03.32PM
11 attention significant matters that they would like to
12 because of potential adverse consequences which I'll
13 deal with later on.

14 But if I could, could I take the Board through our
15 submission in brief and then some recommendations if 03.32PM
16 possible?

17 Effectively, just for the record, and I apologise,
18 I haven't done this before for a long time, the United
19 Firefighters Union is a Federally registered

20 organisation. We represent approximately 10,000 03.32PM
21 firefighters in Australia. We have appeared before
22 Tribunals, Coronial Inquests and Senate Inquiries. In
23 particular, we have a very legitimate concern about
24 firefighter contamination. We appeared before the
25 Senate Inquiry into the Safety Rehabilitation and 03.32PM
26 Compensation Amendment - Fair Protection For

27 Firefighters Bill in 2011. That was in relation to
28 cancer related illness that firefighters contract in
29 the course of their employment. That Senate Inquiry
30 accumulated a report from the Australian Senate that 03.33PM
31 actually found that firefighters are more susceptible

1 to certain types of cancers, approximately 12 types of
2 cancers, as a result of continual exposure.

3 It is an unavoidable risk for firefighters and I
4 think it's important I traverse this ground because
5 they're predominantly a lot of our concerns. It's an 03.33PM
6 unavoidable risk for firefighters for this simple
7 reason: that their uniform must breath. It provides
8 them with protection from radiated heat and from being
9 engulfed in flame. It's a state-of-the-art protection
10 that as we know currently exists globally and we're 03.33PM
11 actually part of a global alliance that keeps checks on
12 these things.

13 But it also has to release metabolic heat build
14 up, so the uniform must breath. So whenever a
15 firefighter is deployed into a combat situation, 03.34PM
16 they're exposed to the toxins in that environment.

17 There are numerous reports now and there's no
18 debate in the scientific community that firefighters
19 are more susceptible to cancer as a result of their
20 service to the community. The Senate Inquiry found 03.34PM
21 that firefighters forego quantity and quality of life
22 in protecting the community, and that is paraphrasing
23 but essentially I think that's at the end of their
24 report.

25 Hence, decontamination procedures are very real 03.34PM
26 for us, it is very real because the illness is very
27 real. The Australian Parliament as a result of that
28 Senate Inquiry adopted legislation, it's called
29 Presumption Legislation, that recognises that
30 firefighters do have that increased risk and there is a 03.34PM
31 reverse onus placed on proving that illness on the

1 employer or the insurer as a result of the
2 circumstances for firefighting.

3 For example, previous to that legislation
4 Federally, firefighters had to prove which fire, which
5 toxin out of tens of thousands that caused their cancer 03.34PM
6 to be able to make a claim for compensation. It was an
7 impossible task, hence they actually implemented that
8 legislation with the reverse onus. It's a rebuttable
9 presumption, so there's checks and balances.

10 I make that point because it's not just about 03.35PM
11 compensation. As part of that Senate Inquiry what came
12 out of it was an awareness that we could do things
13 better, being decontamination. In the old days, when I
14 was a firefighter on shift you used to surrender your
15 dirty uniform. You can't do that. We didn't have the 03.35PM
16 knowledge that we do have now.

17 Employers adopted procedures, in particular
18 procedures of decontamination, the quick turn around of
19 dirty personal protective equipment, to ensure that
20 there is limited exposure to those carcinogens so that 03.35PM
21 they don't leach into the skin, in through the pores of
22 the skin of the firefighters, they're working, they're
23 hot, their pores are opened, I've explained how the
24 uniform must breath, so whatever's in the atmosphere
25 leaches into their skins. So decontamination 03.36PM
26 procedures are very important.

27 Apart from the Senate Inquiry in 2011 we appeared
28 before the 1997 Dandenong Inquiries before Coroner
29 Johnstone in relation to the death of a number of
30 citizens in Dandenong fires, and indeed as a result of 03.36PM
31 our appearance a number of recommendations were made

1 and they're included in that Coronial Inquest Report.

2 We also appeared in the Longford Explosion as a
3 wider representation for trades or council. We also
4 appeared at some length in the investigation/inquest
5 into the wildfire and deaths of firefighters in Linton 03.36PM
6 in December 1998. As a result of that a number of our
7 submissions were picked up, in particular the
8 requirement for Safety Officers.

9 In 2009 we looked at the border reference and we
10 appeared before an independent border reference to look 03.36PM
11 at standards of fire cover for Victorians. In 2009
12 also we appeared before the Royal Commission, Victorian
13 Bushfires. The reason that I bring these matters to
14 the Board's attention is that we have a long history of
15 appearing before this type of Inquiry. 03.37PM

16 If I can go to our submission. Without going to
17 the legislative framework of the CFA and the MFB,
18 essentially it's about protecting life and property and
19 I don't need to take the Board to that, I'm sure you're
20 well aware of it. 03.37PM

21 But if I could just briefly go through this
22 submission. Essentially the chronological events are
23 simply this: On page 10 of our submission, on
24 16 February it was brought to our attention by the
25 firefighters that we represent that there was a number 03.37PM
26 of significant concerns in relation to them being
27 deployed at the Hazelwood, Morwell, Yallourn Fire, in
28 particular the length and tour of duration, including
29 meal and rest breaks. Fatigue is another known factor
30 that causes firefighter injury as well as potential 03.37PM
31 exposure to injury and even worse.

1 Mandatory breathing apparatus wearing is direct
2 which does not conform with two-hour turnaround or
3 current BA procedures, 30 minutes per cylinder and
4 changeover BA to occur in clean environment. We
5 couldn't see how the standard procedures that 03.38PM
6 firefighters had actually been trained on could be
7 implemented in the circumstances where the duration of
8 the set was not long enough. Not only that, the area,
9 the rehabilitation area, was also in a, if you like, in
10 a hot zone. 03.38PM

11 Personnel were instructed to wear BA and not doing
12 so. In some circumstances it was impractical, but
13 there were alternatives which weren't brought to the
14 attention of this tribunal, and that is there are long
15 duration breathing apparatus available. Essentially 03.38PM
16 they used to be what they call BG174s, superseded by
17 what they call BG4s. As I said, I am somewhat
18 embarrassed that firefighters are not able to give this
19 evidence themselves because they would dearly like to
20 be here today. 03.39PM

21 Rest areas, in hostile environments exposure to
22 unnecessary levels of heat and exposure to carbon
23 monoxide. We note Counsel Assisting's recommendations
24 to the Board, and we appreciate that, the fact that
25 firefighters were unnecessarily exposed. 03.39PM

26 Clean dirty areas are not uniform among CFA and
27 MFB causing unnecessary potential exposure to toxins,
28 both known and unknown. I place that in the context,
29 the reason why I opened up with the 2011 Senate
30 Inquiry, it is a known occupational illness being 03.39PM
31 cancer related for firefighters, an unavoidable risk.

1 The very least that can happen is that procedures be
2 put in place to minimise that exposure through having
3 clean areas, dirty areas. Now, that did not occur
4 until very late in the fire fight.

5 Alternatively, firefighters - there's evidence in 03.39PM
6 our submission that show that firefighters were
7 actually required to wear dirty PPE, personal
8 protective equipment, for long protected periods. In
9 fact, they didn't have replacement PPE. Now, I'm not
10 distinguishing between volunteer career firefighters 03.40PM
11 because they're all firefighters. Indeed, that is
12 dangerous. It is dangerous in the sense of acute
13 exposure over a long period of time, but more
14 importantly danger in a sense that it's a known factor
15 recognised by the Australian Parliament. 03.40PM

16 Asking whether monitoring equipment is being used
17 for excessive carbon monoxide levels globally and
18 individually. I mean, that's also contained in our
19 submission and there's evidence from firefighters on
20 that particular issue. 03.40PM

21 Is the carbon monoxide monitoring equipment
22 collaborated for accuracy? There's a letter to the
23 Chief Fire Officer, an email from the Chief Fire
24 Officer from myself on behalf of the firefighters and
25 also to the Fire Service Commissioner, Craig Lapsley. 03.40PM

26 What other testing is being done for toxins in the
27 atmosphere? Asking for tests re mercury in the water
28 and the surface of the coal and atmosphere and to
29 provide the results for your view. We are extremely
30 disappointed that we actually had to conduct our own 03.40PM
31 independent testing that later revealed that the water

1 was indeed contaminated and had high levels of E.coli
2 and some other factors which I'll go to in a moment
3 that indeed were not revealed to the firefighters, but
4 most importantly, weren't tested for in the first
5 instance. We have to ask the question, why we had to 03.41PM
6 engage independent testing for this to be discovered.
7 The responsibility is on the employer. Indeed the very
8 least we can do is to make sure that known risks to
9 firefighters are discovered at an early stage of an
10 incident. They were not. 03.41PM

11 Accommodation facilities for firefighters were
12 inadequate. At one stage there they had to change the
13 staging area because it was on a coalface. It was
14 totally engulfed in smoke. So they had to set up a
15 whole command post, whole staging area where 03.41PM
16 firefighters need to rehabilitate and shift it away.
17 Now, that's simply poor planning and not good enough.

18 Look, I say this as constructive criticism, it was
19 a fire fight, it was very long, dirty, hard job, we
20 acknowledge that. The firefighters went probably 03.42PM
21 beyond what they normally would because we understand
22 it was a major asset, or they understood it was a major
23 asset for the public of Victoria if the power stations
24 had of been knocked out, so we do understand that so
25 it's constructive criticism to make sure it doesn't get 03.42PM
26 repeated.

27 So that's a letter essentially encapsulating some
28 of the issues we spoke about with the Fire Service
29 Commissioner and the Chief Fire Officers at an early
30 stage. Can I say, unfortunately there was more 03.42PM
31 conversations and more conversations.

1 If I can briefly go over the paragraphs, our
2 chronological events of our involvement in this fire
3 and representation by our members are contained in our
4 report in our first submission.

5 Clean dirty areas, 3.2.2 of our submission on 03.42PM
6 page 14 is extremely important and I've explained why
7 and I appreciate and I don't mean to be lecturing the
8 tribunal, but it is something that's very real for us,
9 and indeed we set it out in great lengths.

10 Paragraph 3.2.3, amenities and further equipment 03.43PM
11 issues on page 15. Mess areas were not enforced,
12 specific personal protective equipment, clean areas.
13 Can I say that, in the old days it used to happen but
14 we know better now, and what they were doing is, they
15 were bringing in dirty uniforms, the material from 03.43PM
16 their firefighter boots, sometimes it was the company,
17 sometimes it was people that weren't educated, into an
18 area where they were eating their food and supposed to
19 be rehabilitating. That's against procedures and it
20 was wrong and we had to raise those issues on a number 03.43PM
21 of occasions.

22 Exposure testing: We're very concerned that
23 firefighters were not given the AMCOSHS Report in the
24 early stages, in fact it only come to our attention
25 in March. At the end of the day there may have been 03.44PM
26 more information, different information; we haven't
27 received that. More importantly, the firefighters have
28 a right know what they were being exposed to. Indeed
29 the AMCOSHS Report recommended procedures that weren't
30 brought to the firefighters' attention and we're 03.44PM
31 disappointed in that.

1 Safety equipment on 3.2.5 of page 16 of our
2 submission. A number of firefighters informed us that
3 the company employees were wearing what they call P3
4 masks, whereas we were being issued with P2 masks that
5 filter out particulates. We requested P3 masks but 03.44PM
6 they weren't forthcoming. It's probably an internal
7 matter between the Fire Services and their technical
8 people, but we just raise that issue.

9 Breathing apparatus on 3.2.6 of our submission on
10 page 17. Those procedures simply were not applied. 03.45PM
11 The standard operating procedures were just simply not
12 applied, and whether it was not practicable to do so
13 was not an answer, because firefighters have a right to
14 be deployed safely as much as possible.

15 Indeed, the information that the firefighters were 03.45PM
16 given in relation to wearing breathing apparatus
17 differed at various times and indeed the evacuation or
18 total exiting of the fire fight area, that was indeed
19 different at different times.

20 It also was reported, the last paragraph of 03.45PM
21 page 18 of our submission, that there was not enough
22 breathing apparatus, sets and cylinders to protect all
23 the firefighters on the fire ground for the duration of
24 a two-hour or more deployment in the mine. I can't
25 really understand that because there is large scale 03.45PM
26 capability of breathing apparatus, I'm not sure what
27 went wrong there, but again, firefighters should not be
28 deployed without having the proper safety equipment at
29 least accessible. Even if they weren't wearing it
30 initially, it may be required because of changed 03.46PM
31 circumstances that indeed they would have to don

1 breathing apparatus very quickly to protect their own
2 health and safety or to provide a rescue for someone.

3 Fatigue is a significant issue, which was
4 highlighted by firefighters down at this particular
5 fire fight. Some firefighters were working up to 18 or 03.46PM
6 22 hours consecutively; that is simply not safe. It's
7 not safe for a number of reasons as well meaning as it
8 may be, or alternatively logistically, the
9 co-ordination was not there. Essentially 18-22 hours
10 as a firefighter is simply too long. People become 03.46PM
11 fatigued, they make bad decisions and indeed someone
12 can get hurt.

13 Additionally it's that exposure I talked about
14 also, as well as the fact that the uniforms, they
15 actually conduct a fair bit of heat. So wearing a 03.46PM
16 firefighting uniform for 18-22 hours is just not good,
17 although we do acknowledge in some cases they were
18 using a lesser hot uniform, being a wildfire uniform.

19 There are numerous incidents where firefighters
20 worked excessive hours which directly impacting on 03.47PM
21 health and safety. Firefighters reported working 12-16
22 hours at the Hazelwood Mine with little or no breaks
23 during the fire fight.

24 Contaminated water: We understand that the water
25 supply was scarce and it's often that firefighters 03.47PM
26 often use what we call open water, but there was enough
27 time and indeed the testing didn't reveal the fact that
28 that water was contaminated. One firefighter sustained
29 a very severe injury we think as a result of that.

30 Firefighters were regularly exposed to this water on 03.47PM
31 their face, nose, eyes, mouth, ears, hands, body and

1 legs, often soaking right through their personal
2 protective equipment. Again, the importance of having
3 replacement PPC rather than them sitting around in wet
4 and contaminated uniform.

5 Following a series of safety briefs at the
6 Hazelwood incident, UFU undertook to have its own
7 independent testing. As we know, the testing was in
8 response to reports a firefighter reported getting a
9 serious infection, septicemia, from a paper cup whilst
10 at Hazelwood.

03.48PM

03.48PM

11 The results indicated that the water contained
12 high levels of chloroforms and E.coli, pseudo
13 aeruginosa, and if I haven't pronounced that correctly
14 I apologise, was also detected. This testing was
15 commissioned by the Union on the back of other testing
16 that had been done that didn't reveal this contaminant.
17 That's wrong and we say that no expense should be
18 spared in trying to provide firefighters with a safe
19 environment. That testing should have been done in the
20 early stages or at least before we actually requested
21 the independent testing.

03.48PM

03.48PM

22 Staging areas and divisional command, 3.2.10 on
23 page 20. Second paragraph, firefighters reported to
24 the UFU that the staging area at one stage was set up
25 close to the mine edge and the divisional command was
26 moved on Saturday night, 15 February, due to a wind
27 change and the entire area being overcome by high CO
28 levels and ash and smoke. Again, this is constructive
29 criticism in hindsight and we understand it's in
30 hindsight.

03.49PM

03.49PM

31 Firefighters have also reported that due to the

1 staging area being close to the powerlines the staging
2 area radioed to the front gate was constantly cracking
3 and in the end CFA staff were forced to use their
4 personal and/or work mobile to communicate with staff
5 to facilitate the moving of appliances. It is a known 03.49PM
6 fact that the powerlines interfere with the radios when
7 it's in close proximity.

8 CFA personnel reported that mine employee staff
9 tried to take away CFA log records as the books -
10 movements of people in and out of the mine. We say 03.49PM
11 that as constructive as it's a management issue that
12 really is the Fire Service's responsibility to make
13 sure they log the movement of their personnel.

14 There was an issue regarding staffing which I
15 won't go into because it can be seen as too political, 03.50PM
16 but it's there for the record and there was an issue
17 regarding staffing and running out of people down at
18 that particular fire fight.

19 Emergency roster was implemented, that highlights
20 our concerns as being legitimate and that's at 3.2.11. 03.50PM
21 There was an issue regarding crewing of appliances.
22 Some of these matters have been referred to the
23 Victorian Work Authority for investigation.

24 Most importantly this one here on 3.2.13 just
25 should not have happened. In the context of a previous 03.50PM
26 coronial inquest, in particular Linton, Sector
27 Commanders need to be trained. You cannot deploy
28 someone to be a Sector Commander position without
29 having the training. On numerous occasions there was
30 people deployed who did not have either the training, 03.50PM
31 or alternatively in some cases there wasn't a Sector

1 Commander. That flies in the face of previous
2 recommendations from the coronial inquest, but most
3 importantly standard operating procedures and again
4 goes to the very health and safety of the firefighters.

5 I won't go into how that's actually governed but 03.51PM
6 it's set out at page 22 of our initial submission.

7 Communication: There was an issue regarding
8 communication. The firefighters' main concern, 3.2.15
9 of our submission, second paragraph, the firefighters'
10 main concern was lack of communication for firefighters 03.51PM
11 on the fire ground to divisional sector commands in
12 regards to firefighters' well-being and health and
13 safety. Information on how the firefighting was
14 progressing. Wherever an appliance was in the optimum
15 position to fight the fire, communication was very much 03.51PM
16 one way from the sector command. There was problems
17 with communication and I think that, if you traverse
18 every Coronial Inquiry, including the Royal Commission,
19 there's always been problems with communication.

20 Mine guides and maps was an issue. In some cases 03.51PM
21 firefighters were left on their own to find their way,
22 and indeed some got lost. Statements of firefighters:
23 We've actually underpinned what we actually submit to
24 this Inquiry by appending statements from various
25 firefighters who actually were deployed but are 03.52PM
26 unwilling to be named because of fear of potential
27 adverse consequences.

28 I say this with respect as to - the Inquiry to be
29 able to determine exactly what went wrong or what went
30 right or what was done properly needs to get the 03.52PM
31 information. On 20 February the MFB put out an email

1 asking for employees to submit improvements that could
2 have been placed as a result of their deployment to
3 Hazelwood. They also put a further one out, I think
4 it's on 26 March, I'll have a look at that date because
5 I have got the date here, and that was from HAZMAT 03.52PM
6 technicians. The HAZMAT technicians were the ones who
7 were trained specialists in relation to the exposure of
8 the community and the firefighters. I know from
9 reading the evidence here that a lot of that
10 information didn't come to this Inquiry. You've all 03.53PM
11 heard about Firefighter L. Well, Firefighter L brought
12 it to our attention because he was dismayed the fact it
13 hadn't been raised here.

14 I don't know if the Inquiry has the scope to be
15 able to - for future Inquiries to put in a procedure 03.53PM
16 where the operational firefighters who are at the
17 coalface, without fear of consequences, can bring to
18 the Inquiry matters of concern that they experience. I
19 think that is a severe limitation on any Inquiry to get
20 to the bottom of what actually happened. We say that 03.53PM
21 as constructive criticism. I have spoken to numerous
22 firefighters, both MFB and CFA, who have valuable
23 information that they would like to bring to this
24 Board's attention but can't do so because they're
25 fearful of retribution. 03.53PM

26 We've made a number of recommendations and they're
27 set out in our submission on page 24. Essentially, if
28 I just go to some of them. Page 25, Recommendation 4,
29 that the CFA and MFB must have health and safety HSRs
30 at major fires and incidents. We note in the coronial 03.54PM
31 inquest into Linton Safety Officers were raised. The

1 UFU was actually asked to be part of this fire fight;
2 it's not appropriate for us, it's not our role. So
3 they wanted to embed us in the structure, it's just not
4 appropriate. So what we did do, we actually asked for
5 health and safety representatives, coordinators to be 03.54PM
6 deployed at all times.

7 A lot of problems were averted or rectified
8 because of that deployment of HSRs. They are
9 firefighters who have been trained in health and safety
10 and have qualifications. We think that should be a 03.54PM
11 standard procedure for large scale incidents, indeed
12 protracted incidents.

13 We point out that in 1998, December, into the
14 deaths of five firefighters at Linton that there was a
15 recommendation for a Safety Officer, and indeed we 03.55PM
16 embrace that with open arms.

17 We are concerned, and we respect this Board as
18 well as Counsel Assisting, but we're not quite sure and
19 we didn't have the resources to be able to afford
20 counsel for cross-examination, but essentially we had 03.55PM
21 an email that actually referred to the lack of Safety
22 Officers being able to be found by the CFA and a
23 request for the MFB to try and find Safety Officers.

24 We're unsure, and I'll bring to the tribunal's
25 attention exactly what that was, I think it was annexed 03.55PM
26 as Attachment 5.1 of 11. It's from the Emergency
27 Command Centre on 4 March 2014 to all station, all
28 platoons, which means it goes to every station and ever
29 firefighter, "The ICC at Hazelwood require a Senior
30 Station Officer/Commander/Acting Commander to act as 03.56PM
31 Safety Officers for the nights of 6th, 7th, 8th and

1 9th, night shifts covered as a block as the CFA are
2 unable to fill those position." We say this in the
3 context that there's no contrary information, other
4 than Mr Lapsley's evidence before this Commission,
5 about Safety Officers, and I've explained why we were
6 unable to fund, if you like, resource
7 cross-examination.

03.56PM

8 Can I also say that, many of the safety issues we
9 have raised, if there were Safety Officers there at all
10 times would have been checked by the Safety Officers.
11 They were not, so we have concerns about that.

03.56PM

12 We say that the CFA and MFB Recommendation 7, that
13 the CFA and MFB enforce decontamination procedures in
14 areas of the incident to prevent ongoing exposure to
15 the firefighters; of toxins, including the prevention
16 and wearing of used PPC outside of the fire or incident
17 zone. What we're asking for there is a reinforcement
18 on what is known, and what has been determined by the
19 Senate of Australia and the Parliament of Australia
20 based on evidence, and that is, it is just totally
21 unacceptable in this day and age for contaminated PPE
22 to be traversed into clean areas. It is totally
23 unacceptable for firefighters to be left in
24 contaminated PPE and not have replacements. Again we
25 put that as constructive criticism.

03.57PM

03.57PM

03.57PM

26 We go on to deal with Recommendation 8, and indeed
27 in the early stages of the fire fight there was very
28 little amenities for rest and recline or
29 rehabilitation, if you like. That evolved over the
30 period to be one of a sophisticated nature and we
31 acknowledge the fact it was protracted. However, there

03.57PM

1 was a considerable period of time there where
2 firefighters didn't have a proper rehabilitation area.

3 Our Recommendation 9 on page 25, MFB/CFA must
4 monitor all firefighter staff so excessive hours are
5 not recorded during major fire incidents. Firefighters 03.58PM
6 are good people, as you know, and they want to protect
7 the community. Unfortunately some of them are their
8 own worst enemies where they'll work excessive hours so
9 you have to have checks and balances. We are aware
10 where people exceeded enormous hours down there, and 03.58PM
11 that is very dangerous because it can result - as well
12 meaning as it may be, it can result in injury or death.
13 It's a very serious issue.

14 Then I suppose in relation to communication and
15 interoperability, this issue's contained in our first 03.58PM
16 submission regarding the Royal Commission 2009 final
17 report, recommendations regarding communication, in
18 particular compatibility, inter-operability,
19 communications systems between the fire agencies.

20 I'm somewhat embarrassed to bring to your 03.59PM
21 attention that essentially the MFB and CFA after all
22 the Inquiries still have separate systems and they're
23 not compatible. For a CFA or an MFB firefighter to be
24 able to liaise with each other, they need to have the
25 others' radio capability. I don't understand whether 03.59PM
26 that's part of artificial parochial barriers, I don't
27 know, but it just simply does not work and it's not in
28 the interests of the community or the firefighters.

29 Having said that, that's briefly our first
30 submission that I would like to bring to the Board's 03.59PM
31 attention and indeed I do so with all respect.

1 Can I say that on 6 June we put in a further
2 supplementary submission and that was from
3 Firefighter L who is a qualified HAZMAT technician.
4 I'm not sure of the rules of evidence, however I have
5 corroborated what he has said, as he has done with his 03.59PM
6 colleagues, and they concur entirely. Again, I raise
7 the issue and it's probably outside the terms of
8 reference of this Board, but there needs to be a
9 procedure where firefighters can come forward without
10 fear to be able to highlight problems if they exist. 04.00PM

11 It's not in the public interest that you have an
12 agency that could have been found to be adverse. You
13 could have made an adverse finding against either Fire
14 Service as I understand it.

15 It's not appropriate that they collate the 04.00PM
16 information and then only disseminate to this Inquiry
17 what information they want to come before you. That is
18 not an open Inquiry, and I say that with respect. It's
19 a serious allegation, it's one we stand behind, and
20 it's one that's been asked to be put to you by our 04.00PM
21 members. There are a number of people that would
22 dearly have loved to give evidence; qualified HAZMAT
23 technicians that were deployed into the community, that
24 were deployed into the fire fight that are unable to do
25 so because of the fear of retribution. Now, that's 04.00PM
26 wrong.

27 Firefighter L, as I said, bravely has actually put
28 his statement in but he wouldn't go as far as - and
29 despite us asking for immunity and the Government
30 solicitor giving that to us, not four days after there 04.01PM
31 was an email put out by the employer of Firefighter L

1 saying that, if you give your view/information, you're
2 potentially in breach of your contract of employment
3 and you could lose your job or words to that effect.
4 We've supplied you with a copy of that email.

5 So, despite those assurances, not four days 04.01PM
6 afterwards we get an intimidating email that actually
7 suppresses any proper enquiry from the people at the
8 coalface as to what happened. That's wrong.

9 Having said that, respectfully they are our
10 submissions and we make a number of recommendations 04.01PM
11 and, as I said, I'm not sure if we've actually gone
12 outside of your terms of reference, but we believe
13 they're matters of importance that should be brought to
14 the Inquiry's attention and we do so on behalf of
15 firefighters. 04.02PM

16 I should have said that we represent, out of the
17 10,000 here in Victoria, we have a 98 per cent
18 membership amongst the workforce, so we are
19 representative of the people who were actually at that
20 fire fight. 04.02PM

21 For background, I have also been an operational
22 firefighter, although I have been at the Union for some
23 time now.

24 Firefighter L and his colleagues are somewhat
25 suffering some stress because of not being able to 04.02PM
26 communicate. If you have a look at his statement, they
27 were ordered not to tell the public that the levels
28 were actually changed from 30 to 70, and indeed they
29 had been exceeded, even though they were there amongst
30 the members of the public being asked. 04.03PM

31 That is an excruciating position for a firefighter

1 who, he's not interested in the politics or the rights
2 or wrongs, he's just interested in what he's trained to
3 do and that is protecting life and property.

4 Firefighter L eloquently puts that in his statement,
5 but it also comes from his colleagues. 04.03PM

6 We're hoping that there is a change of attitude
7 from the agencies. We understand that you need to
8 ensure that you don't instill panic in the community,
9 but this was not reckless information; this was vital
10 information that should have been communicated but 04.03PM
11 wasn't. I again emphasise that it hasn't been brought
12 to this Inquiry's attention by either Fire Service
13 because, essentially, they gathered the information and
14 they actually provided you with what they wanted to
15 provide you, even though I know Firefighter L and his 04.03PM
16 colleagues did put the information to the agency, so
17 that's a concern.

18 Counsel Assisting's Recommendation 12(a), it says,
19 "The provision of training in crisis communication that
20 addresses the human relations and effective dimensions 04.04PM
21 as well as the provision of simple and meaningful
22 information". We embrace that. I think that goes to
23 the heart of it but we say it should be broader.

24 Again, I'm not here to score points but I am here
25 to send their message, and they had vital information 04.04PM
26 they would like this tribunal to have, but they're
27 unable to do so.

28 I respectfully thank you for your time and, as I
29 said, we submit this with all respect and we are
30 submitting what our members wanted you to hear but they 04.04PM
31 could not say. Thank you.

1 CHAIRMAN: Thank you, Mr Marshall.

2 MS DOYLE: If the tribunal pleases. My client's been
3 allocated two hours, I'm in the tribunal's hand. There
4 are some themes I could open up this afternoon using
5 say 15 or 20 minutes, and then, if possible, I'd prefer 04.05PM
6 to resume in the morning by which time I'll anticipate
7 I'll have written submissions that I can supply as
8 well, or I could hold it all over until tomorrow, but
9 if the tribunal's willing to sit on I could open up
10 those themes. 04.05PM

11 CHAIRMAN: We'd prefer to sit on.

12 MS DOYLE: If the tribunal pleases. There are five themes
13 that I'd like to touch on this afternoon and then
14 descend to a more detailed analysis of the evidence and
15 response to the submissions that you've heard thus far 04.05PM
16 when we go into that in more detail tomorrow.

17 The five themes I want to open up this afternoon
18 are as follows: First, the use to be made of evidence.
19 Second, a topic that I call in a shorthand way the good
20 old days. Third, the question of shifting goalposts 04.06PM
21 during this Inquiry in relation to the applicable
22 occupational health and safety standard. Fourth, the
23 distinction between rehabilitation and fire risk
24 management, and fifth, the approach to lessons learned.

25 There are many more topics and there are many more 04.06PM
26 sub-topics and I'll expand on all of those tomorrow,
27 but for the purposes of this afternoon it seems, in
28 light of the submissions that have been made so far and
29 some of the key themes that have emerged during the
30 three weeks of the hearing, that it's worth elucidating 04.06PM
31 these five themes.

1 The first I mention is the use to be made of
2 evidence. In the submissions that have been presented
3 to you so far a number of observations have been made
4 about evidence that you've heard over the last three
5 weeks, but it's the submission of GDF Suez that before 04.06PM
6 this tribunal moves from hearing the evidence to that
7 evidence finding life as either a finding of fact, a
8 criticism, an adverse finding or a recommendation, that
9 a number of questions need to be asked which are
10 addressed to causal links. 04.07PM

11 You've heard a huge amount of evidence, but before
12 any passing observation or remark about particular
13 items of evidence is crystallised into a finding or a
14 criticism, we make the following submissions about the
15 approach to that task: It's relevant to ask whether a 04.07PM
16 particular item of evidence is capable of or would have
17 been capable of changing in any material manner what
18 was done or what was not done during the fire fight.
19 In other words, does any particular item of evidence
20 demonstrate that it possessed the capacity to alter the 04.07PM
21 course of this fire?

22 I'm going to give you an example. There was a
23 deal of evidence about the question whether or not
24 anyone at the mine rang 000 and, by those means,
25 alerted the CFA to the fact that fire had begun 04.08PM
26 spotting into the mine. Even at this stage, after
27 three weeks of evidence, the materials that the Inquiry
28 has before it are not in the form of a comprehensive
29 minute-by-minute chronology with respect to that single
30 item of fact. There is some material, and as late as 04.08PM
31 Friday more material was coming in in the form of logs

1 produced through VGSO.

2 One could devote days, if not weeks, to trying to
3 analyse in minute detail that particular item of
4 evidence, but in circumstances where there is other
5 evidence which demonstrates that there is no question 04.08PM
6 that the CFA knew that fire had spotted into the mine
7 by 2.30 - and I refer here to the evidence of
8 Commissioner Lapsley who referred in his evidence to
9 reports and minutes that are available that demonstrate
10 that through the hierarchy of the CFA that knowledge 04.08PM
11 had been obtained by 2.30 - and other evidence which
12 demonstrates that the CFA had assets that were putting
13 the fire out by 2.45 - I'm referring here to the
14 evidence of aerial bombing of the fire - in those
15 circumstances one has to ask, does it matter whether or 04.09PM
16 not there is a particular item of evidence that
17 demonstrates the precise minute at which any 000 call
18 was first made by mine staff or others in the community
19 specifically reporting the spotting of this bushfire
20 into the mine? 04.09PM

21 Further, one has to ask what difference could it
22 have made if it could now be shown positively that a
23 000 call was made at a particular time, because Counsel
24 Assisting for example do not point to any particular
25 thing that it is said that the CFA would have done 04.09PM
26 differently had they received a 000 call at a
27 particular time. Commissioner Lapsley has certainly
28 never suggested that that is the case.

29 Counsel Assisting also does not point to anything
30 that it is said GDF Suez would have done differently if 04.10PM
31 one of its staff had called 000. Further, there's no

1 evidence, and there's nothing that's been put to any
2 witness, that suggests that any of those hypothetical
3 things, had they been done, would have altered the
4 course of this fire and/or the extreme efforts applied
5 to putting it out.

04.10PM

6 To turn it around the other way, if one assumed
7 that there was firm evidence of a particular call being
8 made through to 000 at a particular time, could it also
9 be said that the response of the CFA would be, "Thank
10 you for bringing that to your attention, we have
11 ample resources which we will now deploy post haste to
12 the mine"? No, because the other body of evidence
13 reveals that the CFA was stretched and that it was
14 acting according to its priorities in terms of
15 deployment of its resources.

04.10PM

04.10PM

16 Would placing such a call have increased the
17 appropriate sense of urgency or the efforts being made
18 at the mine? No, there's no evidence that any witness
19 would have acted differently simply because they would
20 have dialled 000.

04.11PM

21 Would placing such a 000 call have changed the
22 reality about what now appears to be significant
23 deficiencies in the redundancy of power supply through
24 to the mine? No. So in those circumstances it can be
25 seen that that item of evidence, while it attracted
26 interest and appropriate exploration, at the end of the
27 day shouldn't be capable of sustaining any negative
28 observation about a failure to put that call or place
29 that call.

04.11PM

30 That's just one example, and obviously in
31 developing the sub-topics I'll draw the tribunal's

04.11PM

1 attention to others of a similar ilk.

2 The next theme identified is one called "the good
3 old days". What I want to say about that is a tension
4 which emerged in the evidence during the running of the
5 Inquiry. On the one hand a number of submissions, and 04.12PM
6 a good deal of evidence from community witnesses in
7 particular, harked back to the days of
8 pre-privatisation and lauded the standards applied by
9 the SECV. The evidence is of course that the way that
10 the Fire Code or the policy has developed in the valley 04.12PM
11 is that there was a 1984 code adopted by the SECV and
12 used across the three mines in the valley, it was
13 modified to a degree by 1994 but still applied in the
14 hands of Generation Victoria at this mine, and then
15 adopted almost without change in the 2013 document 04.12PM
16 which is in use as at today by GDF Suez.

17 It's certainly ironic then that, given there was a
18 great deal of evidence and submissions of that ilk -
19 namely, that things should have stayed the way that
20 they were in 1994 - it's ironic and there is that 04.12PM
21 tension I referred to, that in the latter part of the
22 evidence GDF Suez has been criticised for adhering to
23 the tenets of the 1994 policy.

24 By way of example, it was elicited from
25 Commissioner Lapsley that he found it amazing that the 04.13PM
26 1994 policy was still applied. When Mr Graham was
27 being cross-examined by Counsel Assisting, it was put
28 to him a number of times that the 1994 code was
29 prepared many years ago in a different world. He was
30 pressed as to whether or not the mine should develop a 04.13PM
31 document suitable for the second decade of the 21st

1 Century. In that way, it can be seen that there was a
2 shift from a desire to hark back to the so-called good
3 old days, to a call for that very policy or those
4 standards to be modified in light of current realities.

5 It's interesting, too, that a number of the 04.14PM
6 submissions and evidence from community witnesses as
7 well as Mr Incoll tended to assume that the SECV
8 standard was of a certain type or produced a certain
9 result, and often when facts were brought to witness's
10 attention it had to be conceded that that was not 04.14PM
11 necessarily the case, and it was also often assumed
12 that that was the counsel of perfection or the standard
13 that should be adhered to, when in fact there may have
14 been misinformation about what the standard involved.
15 It's submitted that that background is important when 04.14PM
16 we then come to look at some of the sub-topics that
17 I'll develop further tomorrow.

18 The third question that I've identified is that of
19 the shifting goalposts in relation to occupational
20 health and safety standards. As the evidence developed 04.14PM
21 in these proceedings, Professor Cliff 's report, when
22 it became available, expressed his opinion that there
23 had been a deficit in the approach by GDF Suez to the
24 question of safety assessments as required by
25 Regulation 5.3.23. By the end of Professor Cliff's 04.15PM
26 evidence it became clear that he had retracted that
27 opinion by reason of two important matters being
28 brought to his attention which he'd given further
29 appropriate consideration.

30 The first matter brought to his attention was the 04.15PM
31 distinction between mining hazards and major mining

1 hazards under the Victorian regime when compared with
2 other regimes with which he was more familiar and on
3 which he'd been focusing.

4 Secondly, there were a number of additional
5 materials brought to his attention that he gave 04.15PM
6 additional consideration to which caused him to retract
7 that view.

8 Now we find today that the focus has shifted from
9 Regulation 5.3.23 and the notion of safety assessments
10 that hang off major mining hazards, to a suggestion 04.15PM
11 that there is a deficit in the mine's approach to two
12 different regulations, 5.3.7 and 5.3.9. While some of
13 the elements of Regulation 5.3.7 directed to risk
14 assessments were traversed with witnesses, including
15 Professor Cliff and others, the requirements of 04.16PM
16 Regulation 5.3.9 have not squarely been put to any
17 witness, were not the subject of Professor Cliff's
18 report, and have not been engaged in in the same manner
19 in which the first line of attack pursuant to the
20 safety assessment regime were. 04.16PM

21 The evidence in relation to that is something that
22 I will develop in more detail tomorrow, but it should
23 be said at the outset that the findings urged by
24 Counsel Assisting with respect to these regulations,
25 5.3.7 and 5.3.9, are rejected on the basis that they 04.16PM
26 are not consistent with a full reading of the evidence,
27 and that certain elements of them were not put in terms
28 to the relevant witnesses, so there couldn't be a safe
29 foundation to draw the conclusions that are urged upon
30 the tribunal. 04.17PM

31 The fourth theme that I wanted to open up this

1 afternoon is the difference between rehabilitation and
2 fire risk management. It's submitted that there is a
3 significant difference between the following three
4 concepts about which you've heard a deal of evidence.
5 Some witnesses used the terminology in different ways, 04.17PM
6 but at the end of the body of evidence it appears that
7 there were three concepts upon which witnesses touched.

8 The first is the notion of progressive
9 rehabilitation undertaken during the life of an
10 applicable work plan. The second concept is that of 04.17PM
11 final or end of mine life rehabilitation.

12 The first two elements are obviously governed by
13 and creatures of the regulatory regime, conditions of
14 mining licences, and the content of work plans. But
15 the third notion, which doesn't have a fixed and, in 04.18PM
16 our submission, a term of art meaning, the third notion
17 that came to be spoken of was so-called temporary
18 rehabilitation.

19 Mr Faithfull in his evidence said he hadn't really
20 heard that term before and it wasn't a term that he 04.18PM
21 used in his work. It may be a handy label, but we
22 submit it has significant limitations, because it
23 turned out what it really meant or what it really
24 describes as a catch-all is a collection of ideas that
25 some people in the community and Mr Incoll and 04.18PM
26 Professor Cliff came up with.

27 There were different variations on them, each of
28 them in one way or another was a suggestion that an
29 application of a body of clay or earth, or clay mixed
30 with cement or clay mixed with ash, might in some way 04.18PM
31 be applied to the exposed coal in the worked out

1 batters. Those who put up these suggestions tended to
2 make them in very brief form, over one or two lines in
3 submissions or witness statements and, when pressed
4 about them, sometimes were non-committal about whether
5 they were suggesting it be applied to slopes as they
6 now stand, almost vertical, or to slopes that were laid
7 back a little or laid back a lot. In short, there was
8 very little detailed propounded by those who advocate
9 these fixes.

04.19PM

10 What was notable about each one of them was the
11 following: Not one was put before this tribunal as
12 having already been the subject of any risk assessment;
13 not one was put before this tribunal as ever having
14 been the subject of a practical application. The
15 closest we got was a suggestion by Professor Cliff that
16 he was aware of a coating being put over some exposed
17 coal and some stocks of coal in an underground mine.
18 In terms of the way he gave his evidence it appeared
19 clear he was talking about lying on the ground, not at
20 a near vertical surface or a steep incline.

04.19PM

04.19PM

04.20PM

21 Those who were pressed in relation to these sorts
22 of topics, including Ms White, including Mr Faithfull,
23 and including Mr Incoll and Professor Cliff, all agreed
24 in the final analysis that these were ideas that might
25 be able to be considered but that on any view, would
26 themselves have to be the subject of a detailed risk
27 assessment of two kinds: Firstly, the doing of the
28 work would have exposed those doing the work to risks
29 in carrying it out, but secondly and more
30 fundamentally, would itself create another suite of
31 problems.

04.20PM

04.20PM

1 A number of the problems were highlighted for the
2 Inquiry's attention; some related to batter stability,
3 a very significant matter that Ms White spoke of at
4 length as did Mr Faithfull. Others referred to
5 concerns they had about whether, for example, applying 04.20PM
6 an impervious surface would reduce the current capacity
7 of those experienced with these mines to monitor any
8 shifting of the surface in the worked out batters or to
9 see whether or not any hot spots are on the move.
10 Others expressed concern that it would have an impact 04.21PM
11 upon the horizontal bores and that questions were
12 raised about how they would continue to perform their
13 vital drainage function.

14 Each of these ideas may well have been worth
15 raising, but each of the concerns and difficulties 04.21PM
16 raised by others in response need to be given serious
17 consideration. So we land at the end of the day with a
18 number of suggestions borne of good intentions, no
19 doubt, but none of which have been subjected to the
20 appropriate rigorous risk assessment process that would 04.21PM
21 need to be conducted, it's clear, both using one's
22 DSDBI hat, what does this do to the mine? And using
23 one's WorkSafe hat, what other risks does this present
24 to those applying this mode of fire risk mitigation and
25 to those who then live with it and the other suite of 04.22PM
26 problems it might deliver?

27 The final theme I wanted to open up this afternoon
28 is the question of lessons learned and the approach to
29 lessons learned. It's submitted that GDF Suez was the
30 only participant to attend the Inquiry and propose a 04.22PM
31 significant suite of recommendations pursuant to which

1 it had already undertaken to initiate change and to
2 spend its own money, to put it frankly.

3 Many times the Inquiry heard evidence from
4 bureaucrats who were prepared to go away and start
5 considering things, have discussions with other people, 04.22PM
6 set up a committee, write a list, advocate change,
7 think about it, talk about it; very little doing of it.

8 It was Mr Graham, the Asset Manager, who came here
9 and said, and he stood alone in this regard, "I have
10 the authority to make these changes, I have consulted 04.23PM
11 those below me and who sit with me in the management
12 team. I have consulted those with the expertise, the
13 electrical engineers, those who tell me they know about
14 rehabilitation. I have formed a view about what can be
15 done. I have formed a view about what should be done." 04.23PM

16 I'll quote what Mr Graham said at transcript
17 page 2234, "Irrespective of whether the tribunal
18 recommended them [and he was speaking about the text in
19 his chart marked in red] we think they add value and we
20 would wish to implement them." 04.23PM

21 It was Mr Graham who was forthright about the
22 lessons he'd learnt from the fire and the reason that
23 he didn't want them to be repeated.

24 As he said, "I'm not going anywhere, I'm an
25 Australian citizen now, I'm retiring here and I'm going 04.23PM
26 to be in the community. Certainly, I don't want to be
27 in this position again. I don't want the community to
28 be in this position again."

29 We say his evidence was of a different nature than
30 that which had been put before the Inquiry by others; 04.24PM
31 as I say, who while they evinced a preparedness to

1 consider legislative change, regulatory change,
2 systematic change, much of it sounded as if it was a
3 long way off in the future, and much of it sounded as
4 if it rested upon others making the same commitment, in
5 particular, where gaps or possible gaps were identified 04.24PM
6 as between the regulators.

7 But it was Mr Graham, as I say, who stood alone
8 who said, "I have seen at least these problems." He
9 was frank in acknowledging that the tribunal may well
10 recommend many more different or additional matters, 04.24PM
11 but he was willing to say what the mine was prepared to
12 do, was able to do and will do.

13 If the tribunal pleases, there are a number of
14 matters that emerged today that I would like the
15 opportunity to address tomorrow and we think we'll be 04.25PM
16 able to do that quite efficiently because we're in the
17 process of having written submissions finalised that
18 will do that. If we can tailor them a little more to
19 some of the recommendations that have been made, I
20 anticipate I can simply use the balance of the time 04.25PM
21 allocated to me tomorrow, and of course, I'm in the
22 tribunal 's hands - - -

23 CHAIRMAN: I think the difficulty is just making sure that
24 we do finalise in time. If you say that there's
25 material going to be in writing, obviously that will be 04.25PM
26 of assistance to you and to us. It may be a 9.30
27 start.

28 MS DOYLE: I was just going to say that that may assist.

29 CHAIRMAN: It may be the better way on the basis, if you've
30 still got of the order of an hour and a half - - - 04.25PM

31 MS DOYLE: Looks like Dr Wilson's not here, he must have

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31

nothing, so we'll be done.

CHAIRMAN: Dr Wilson, or Mr Burns might in his absence, has got approximately two hours. That means we have a reasonable prospect of going until 1 o'clockish and, if we don't have to go long beyond that, there's still this matter that has been raised by Counsel Assisting that if some matter takes either by surprise, there's the capacity to put in appropriate written submissions that deal with odd matters, but hopefully not extensively.

04.26PM

04.26PM

MS DOYLE: Yes.

CHAIRMAN: Does that seem the appropriate course, to finish now but to resume at 9.30 in the morning?

MS DOYLE: Certainly.

MS RICHARDS: Yes.

04.26PM

CHAIRMAN: We'll do that.

ADJOURNED UNTIL WEDNESDAY, 18 JUNE 2014