

ANNEXURE 4

PROPOSED CORRECTIONS TO WEATHER OBSERVATIONS AND DATA IN
CA FIRE SUBMISSIONS

Paragraph	Footnote	Current	Change/Comment	Source
Bunyip				
3.3		'the <u>wind chart</u> attached to the Spot Forecast'	'the Spot Forecast's <u>wind table</u> '	Annexure 7 to Commonwealth fire-by-fire submissions – BoM Spot Fire Forecast, Bunyip Fire, 6 February 2009, 17:37.
Kilmore				
1.4		'wind strength was between 46 and 56 kilometres per hour ...'	AWS data for the relevant times shows 61 kph (11.08), 68 kph (13.00) and 63 kph (13.04)	BoM, Meteorological Aspects of the Kilmore East Fire on 7 February 2009 (BOM.901.0048) at 0069.
Horsham				
3.5	82	–	–	Additional reference: Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0088
3.5	83	'north-westerly wind of 65 kilometres'	'north-westerly wind of 63 kilometres'	Horsham AWS, Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0088
3.6	85	At 3.6: 'maximum temperature of 45.7°C. At footnote 85: 'but compare Annexure 1, pages 42 and 85, which give the maximum temperature for Horsham as 47.6°C.	47.6°C stands as the official maximum daily temperature at Horsham on 7 February 2009 per WIT.013.001.0012 at 0101. This figure is drawn from the longest recording station at Horsham	Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0101.

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			(Polkemmet Road, approximately 12km from Horsham township).	
3.10	95	'a grassland FDI of 192'	'a grassland FDI of 190'. The Commonwealth is advised by BoM that at FDI values of 170 or over, minor discrepancies can be attributed to the use of different software to calculate the FDI, notwithstanding that the same input parameters are used.	Horsham AWS, Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0088
3.11	98	'the FDI had dropped to 169'	'the FDI had dropped to 170'. See comments on paragraph 3.10 above.	Horsham AWS, Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0088
6.15	229	'At 15.17 the Horsham AWS recorded west to north-westerly winds of 53.7 kilometres per hour gusting to 64.8 kilometres per hour and 13 minutes later, at 15:30, recorded westerly winds of 48.1 kilometres per hour gusting to 74.1 kilometres per hour'	The Commonwealth is advised by BoM that wind speed figures should be rounded to the nearest whole number.	
6.20	238	'... the Horsham AWS had already recorded south-westerly winds of 61.1 kilometres per	See comments on paragraph 6.15 above.	

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		hour gusting to 72.2 kilometres per hour ...'		
Coleraine				
4.1		'maximum forest fire danger index of 100 and a grass fire danger index of 128 ... The Bureau also forecast a west, south westerly wind change of up to 45 kilometres per hour ...'	'maximum forest fire danger index of <u>128</u> and a grass fire danger index of <u>186</u> ... The Bureau also forecast a west, south westerly wind change of up to <u>55</u> kilometres per hour ...'	Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0194 and 0210
Churchill				
2.25		No record of time 09.00 Spot Fire Forecast received by Delburn IMT.	The Commonwealth is advised by BoM that the Spot Fire Forecast was issued by BoM at 09:02 on 7 February 2009, and submits that the time of issuing should be included in the proposed finding.	Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0211.
2.37		'highly accurate wind change information ... was available at the iECC from <u>16:30</u> '	'16:50.'	Exhibit 22 – Statement of Williams, Annexure 1 (WIT.013.001.0012) at 0074.
Murrindindi				
3.1		'Friday 7 February 2009'	'Friday <u>6</u> February 2009'	
3.1		'The forecast included fire weather and <u>extreme</u> weather warnings, ...'	' <u>severe</u> weather warning'	BOM, Meteorological Aspects of the Murrindindi Fire on 7 February 2009 (BOM.901.0172) at 0201
3.6		'and relative humidity fell to around 10%'	'Relative humidity lowered slightly in the hot north westerly wind and	BOM, Meteorological Aspects of the Murrindindi Fire on

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			ranged from 10% at low levels through to about 20% on the higher ground of the fire area by 3 pm'	7 February 2009 (BOM.901.0172) at 0183
3.12		'A secondary south to southwest wind surge of about 20 km/h moved northeast across the fireground	BOM's report assumed the surge reached the northeast flank of the fire, thus moving across, but there is a real possibility that the surge actually stalled in the fire ground	BOM, Meteorological Aspects of the Murrindindi Fire on 7 February 2009 (BOM.901.0172) at 0186
3.12		'...an increase in relative humidity to around 55%	'...an increase in relative humidity to 45 to 55%	BOM, Meteorological Aspects of the Murrindindi Fire on 7 February 2009 (BOM.901.0172) at 0187
Redesdale and Bendigo				
3.9		'The weather overview, particularly in relation to the wind change was markedly different from the forecast issued only an hour earlier'	To say the forecast at 17.32 was markedly different from the one the hour beforehand is an overstatement. The wind change forecast was for between 1830 and 1900. The earlier forecast (16.23) noted that the timing of the wind change, then between 8 and 9 pm, may be slightly at variance with that forecast.	BOM, Meteorological Aspects of the Redesdale Fire on 7 February 2009 (BOM.901.0213) at 0246 to 0247
3.12		No lightning strikes were recorded over the fire ground, although these were possible during periods on the	Lightning strikes were possible on and near the fire ground during the period 1.54 am to 2.18 am Sunday 8	BOM, Meteorological Aspects of the Redesdale Fire on 7 February 2009 (BOM.901.0213) at

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		<u>evening of 7 February 2009</u> and in the early hours of 8 February	February.	0226
3.12		'... some very light falls may have occurred at around the time of the wind change.'	It is possible that some very light falls occurred at times when the radar indicated a chance of lightning (see above comment)	BOM, Meteorological Aspects of the Redesdale Fire on 7 February 2009 (BOM.901.0213) at 0226
14.5		'09.00'	'09.03'	BOM, Meteorological Aspects of the Maiden Gully Fire on 7 February 2009 (BOM.901.0096) at 0109
14.6		'1600'	'1601'	BOM, Meteorological Aspects of the Maiden Gully Fire on 7 February 2009 (BOM.901.0096) at 0109
14.9		'... lightning strikes ... were possible, particularly at the time of the wind change.'	Lightning strikes were possible on and near the fire ground during the periods 6.30 pm to 7 pm and 11.18 pm	BOM, Meteorological Aspects of the Maiden Gully Fire on 7 February 2009 (BOM.901.0096) at 0106