APPENDIX 5 - TABLES 8.22A & 8.22B

Table 8.22A: Maximum nitrogen dioxide (1-hour mean, 99.79th%ile) predicted concentrations at human health receptors – Abnormal operation (Black Start plant and peaking plant)

Receptor ID	Hourly mean nitrogen dioxide PC (µg/m^3)	PC / NAQS	Magnitude of change	2022 Nitrogen dioxide baseline[1] (µg/m^3)	PC as % of headroom	Effect
1	2.9	1.5%	Imperceptible	28	2%	Negligible
2	3.3	1.7%	Imperceptible	28	2%	Negligible
3	7.4	3.7%	Imperceptible	35	5%	Negligible
4	2.5	1.2%	Imperceptible	31	1%	Negligible
5	2.6	1.3%	Imperceptible	27	1%	Negligible
6	9.6	4.8%	Imperceptible	31	6%	Negligible
7	5.4	2.7%	Imperceptible	31	3%	Negligible
8	2.1	1.0%	Imperceptible	31	1%	Negligible
9	6.4	3.2%	Imperceptible	33	4%	Negligible
10	6.6	3.3%	Imperceptible	33	4%	Negligible
11	5.8	2.9%	Imperceptible	31	3%	Negligible
12	7.0	3.5%	Imperceptible	31	4%	Negligible
13	5.2	2.6%	Imperceptible	29	3%	Negligible
14	4.6	2.3%	Imperceptible	31	3%	Negligible
15	13	6.3%	Imperceptible	32	8%	Negligible
16	2.9	1.5%	Imperceptible	28	2%	Negligible
17(T)	8.0	4.0%	Imperceptible	32	5%	Negligible
18(T)	9.8	4.9%	Imperceptible	30	6%	Negligible
19	8.4	4.2%	Imperceptible	31	5%	Negligible
20	3.9	2.0%	Imperceptible	31	2%	Negligible
21	3.2	1.6%	Imperceptible	28	2%	Negligible
22(T)	16	7.8%	Imperceptible	32	9%	Negligible
23 (AQMA, M62)	1.2	0.6%	Imperceptible	43	1%	Negligible
24 (AQMA, Selby)	1.0	0.5%	Imperceptible	34	1%	Negligible
NAQS	200					

(T) indicates transient receptor; 1. Baseline assumed to be as 2013 background as worst-case; PC=process contribution; Headroom = (NAQS-2*baseline)

Table 8.22B: Maximum carbon monoxide (running 8-hour mean) predicted concentrations at human health receptors – – Abnormal operation (Black Start plant and peaking plant)

Receptor ID	8-Hour mean CO PC (µg/m^3)	PC / NAQS	Magnitude of change	1-Hour mean CO PC (µg/m^3)	PC / NAQS	Magnitude of change	2022 CO baseline[1] (µg/m^3)	8-hour PC as % of headroom	CO Effect
1	7	<1%	Imperceptible	11	<1%	Imperceptible	265	<1%	Negligible
2	9	<1%	Imperceptible	11	<1%	Imperceptible	265	<1%	Negligible
3	31	<1%	Imperceptible	43	<1%	Imperceptible	291	<1%	Negligible
4	6	<1%	Imperceptible	9	<1%	Imperceptible	282	<1%	Negligible
5	7	<1%	Imperceptible	9	<1%	Imperceptible	263	<1%	Negligible
6	27	<1%	Imperceptible	35	<1%	Imperceptible	285	<1%	Negligible
7	15	<1%	Imperceptible	19	<1%	Imperceptible	285	<1%	Negligible
8	6	<1%	Imperceptible	9	<1%	Imperceptible	271	<1%	Negligible
9	17	<1%	Imperceptible	36	<1%	Imperceptible	293	<1%	Negligible
10	15	<1%	Imperceptible	37	<1%	Imperceptible	293	<1%	Negligible
11	12	<1%	Imperceptible	30	<1%	Imperceptible	285	<1%	Negligible
12	20	<1%	Imperceptible	45	<1%	Imperceptible	285	<1%	Negligible
13	16	<1%	Imperceptible	26	<1%	Imperceptible	278	<1%	Negligible
14	10	<1%	Imperceptible	21	<1%	Imperceptible	289	<1%	Negligible
15	33	<1%	Imperceptible	49	<1%	Imperceptible	289	<1%	Negligible
16	9	<1%	Imperceptible	10	<1%	Imperceptible	271	<1%	Negligible
17(T)	22	<1%	Imperceptible	51	<1%	Imperceptible	289	<1%	Negligible
18(T)	38	<1%	Imperceptible	35	<1%	Imperceptible	281	<1%	Negligible
19	23	<1%	Imperceptible	31	<1%	Imperceptible	285	<1%	Negligible
20	13	<1%	Imperceptible	15	<1%	Imperceptible	285	<1%	Negligible
21	12	<1%	Imperceptible	16	<1%	Imperceptible	271	<1%	Negligible
22(T)	63	<1%	Imperceptible	59	<1%	Imperceptible	289	<1%	Negligible
23 (AQMA, M62)	4	<1%	Imperceptible	6	<1%	Imperceptible	315	<1%	Negligible
24 (AQMA, Selby)	2	<1%	Imperceptible	5	<1%	Imperceptible	274	<1%	Negligible
NAQS or EAL	10,000	-	-	30,000					

(T) indicates transient receptor; 1. Baseline assumed to be as 2013 background as worst-case; PC=process contribution; Headroom = (NAQS-2*baseline)