

Dr Johan Schoeman
 Air Quality Management
 Eden District Municipality
 PO Box 12
 George
 6530

Date:
 11 May 2021

Enquiries:
 021 941 5856

Ref: GOU/2021/04

Dear Dr Schoeman

GOURIKWA POWER STATION'S MONTHLY EMISSIONS REPORT FOR THE MONTH OF APRIL 2021

This serves as the monthly report required in terms of Section 9 in Gourikwa Power Station's Atmospheric Emission License (WCCT036). The emissions are for the month of April, these being SO₂, CO₂, PM and NO_x (as NO₂).

1. Raw Materials and Products

Table 1. Quantity of Raw Materials and Products used/produced for the month of April 2021.

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Total consumption in Month of April
	Fuel Diesel	Tons/hour/unit	40	24 509 523.93
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted per unit (MW)	Total production/Power sent out in Month of April
	Energy	MWh/ /unit	170	77 845.74
	Fuel use per hour per unit (L)		Fuel efficiency Litres per MWH	
	Unit 11: 35 184 Unit 12: 32 969 Unit 13: 33 642 Unit 21: 34 385 Unit 22: 34 502		Unit 11: 318.35 Unit 12: 312.78 Unit 13: 300.16 Unit 21: 321.74 Unit 22: 321.24	

2. Abatement Technology

Table 2. Abatement Equipment Control Technology availability for the month of February

Associated Unit	Technology Type	Actual Utilisation (%) for the month of April
Unit 11	Low NOx burners	100%
Unit 12	Low NOx burners	100%
Unit 13	Low NOx burners	100%
Unit 21	Low NOx burners	100%
Unit 22	Low NOx burners	100%

3. Emissions Reporting

Table 3a: Total monthly emission rates and Licence limits

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm ³)	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)
Hourly Licence Limit mg/Nm³			250	50	500
Unit11					
	2021/04/01 15:00	0.1	149	0.1	0.6
	2021/04/01 16:00	0.2	136	0.1	1.7
	2021/04/01 17:00	0.4	129	0.1	2.7
	2021/04/01 18:00	0.4	133	0.1	3
	2021/04/01 19:00	0.6	126	0.1	3
	2021/04/01 20:00	0.5	125	0.1	0.9
	2021/04/01 21:00	0.7	131	0.1	0.9
	2021/04/04 19:00	0.2	132	0.1	0
	2021/04/04 20:00	0.4	98	0.1	0.1
	2021/04/07 18:00	1.2	149	0.1	0.9
	2021/04/07 19:00	0.5	135	0.1	0.3
	2021/04/07 20:00	0.8	102	0.1	0
	2021/04/07 21:00	1.4	109	0.1	0
	2021/04/07 22:00	0.5	103	0.1	0
	2021/04/07 23:00	0.3	110	0.1	0.2
	2021/04/08 18:00	0.2	143	0.1	0
	2021/04/08 19:00	0.2	125	0.1	0.2
	2021/04/08 20:00	0.4	94	0.1	0.2
	2021/04/08 21:00	0.3	103	0.1	0.3
	2021/04/09 07:00	0.1	97	0.1	0.3
	2021/04/09 08:00	0.1	94	0.1	0.2
	2021/04/09 09:00	0.4	97	0.1	0.7
	2021/04/09 10:00	0.2	97	0.1	0.8
	2021/04/09 11:00	0.3	105	0.1	1.8
	2021/04/09 12:00	0.3	136	0.1	1.5

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/09 13:00	0.6	138	0.1	2.5
	2021/04/09 14:00	0.9	119	0.1	3.4
	2021/04/09 15:00	0.6	133	0.1	3.8
	2021/04/09 16:00	0.5	146	0.1	0
	2021/04/09 17:00	0.7	141	0.1	0
	2021/04/09 18:00	0.5	144	0.1	0.1
	2021/04/09 19:00	0.5	129	0.1	0.1
	2021/04/09 20:00	0.6	95	0.1	0.1
	2021/04/09 21:00	0.9	132	0.1	0.1
	2021/04/09 22:00	0.8	115	0.1	0
	2021/04/09 23:00	0.7	115	0.1	0.6
	2021/04/10	0.4	120	0.1	1.2
	2021/04/10 01:00	0.2	103	0.1	0.9
	2021/04/10 02:00	0.2	100	0.1	0.7
	2021/04/10 03:00	0.3	103	0.1	0.7
	2021/04/10 04:00	0.8	115	0.1	0.1
	2021/04/10 05:00	1	115	0.1	0.1
	2021/04/10 06:00	0.8	92	0.1	0.1
	2021/04/10 07:00	0.9	103	0.1	0.1
	2021/04/10 08:00	0.1	108	0.1	0
	2021/04/10 09:00	0.7	113	0.1	0.2
	2021/04/10 10:00	0.7	111	0.1	0.4
	2021/04/10 11:00	0.3	93	0.1	1
	2021/04/10 12:00	0.9	96	0.1	0
	2021/04/10 15:00	1.9	94	0.1	0.2
	2021/04/10 16:00	0.7	126	0.1	0.3
	2021/04/10 17:00	0.9	109	0.1	0.1
	2021/04/10 18:00	1.6	100	0.1	0.1
	2021/04/10 19:00	1	100	0.1	0.5
	2021/04/10 20:00	1.2	131	0.1	0.5
	2021/04/10 21:00	1.2	138	0.1	0.3
	2021/04/10 22:00	1.1	128	0.1	0
	2021/04/10 23:00	1	119	0.1	0.2
	2021/04/11	1.5	105	0.1	0.2
	2021/04/11 01:00	0.8	117	0.1	0
	2021/04/11 14:00	0.7	148	0.1	0.2
	2021/04/11 15:00	0.3	149	0.1	0.4
	2021/04/11 16:00	0.8	145	0.1	0.9
	2021/04/11 17:00	0.8	143	0.1	0.9
	2021/04/11 18:00	0.7	139	0.1	0.8
	2021/04/11 19:00	1	133	0.1	0.7
	2021/04/11 20:00	1.6	134	0.1	0.1
	2021/04/11 21:00	1.1	122	0.1	0.2
	2021/04/11 22:00	1.4	93	0.1	0.1
	2021/04/11 23:00	0.9	112	0.1	0

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/12 15:00	0.2	141	0.1	0.3
	2021/04/12 16:00	1	135	0.1	0.2
	2021/04/12 17:00	1.1	134	0.1	0.3
	2021/04/12 18:00	1.3	135	0.1	0.8
	2021/04/12 19:00	1.4	133	0.1	0.9
	2021/04/12 20:00	1	109	0.1	0.2
	2021/04/12 21:00	1.2	97	0.1	0.3
	2021/04/12 22:00	0.9	94	0.1	0.2
	2021/04/12 23:00	1.1	109	0.1	0.2
	2021/04/13 10:00	0.3	147	0.1	0.2
	2021/04/13 11:00	0	151	0.1	0.3
	2021/04/13 12:00	0.5	152	0.1	1
	2021/04/13 13:00	0.8	152	0.1	1.9
	2021/04/13 14:00	0.9	153	0.1	3.2
	2021/04/13 15:00	1.1	148	0.1	3
	2021/04/13 16:00	0.8	137	0.1	1.6
	2021/04/13 17:00	0.9	137	0.1	1.2
	2021/04/13 18:00	0.9	137	0.1	1.2
	2021/04/13 19:00	1	136	0.1	0.9
	2021/04/13 20:00	0.5	144	0.1	0.2
	2021/04/13 21:00	0.7	138	0.1	0.1
	2021/04/13 22:00	0.3	123	0.1	0
	2021/04/13 23:00	0.3	130	0.1	0.2
	2021/04/14 17:00	0.1	141	0.1	0
	2021/04/14 18:00	0	142	0.1	0
	2021/04/14 19:00	0.3	133	0.1	0.6
	2021/04/14 20:00	0.2	123	0.1	0.8
	2021/04/14 21:00	0.6	122	0.1	0.3
	2021/04/14 22:00	0.1	123	0.1	0.3
	2021/04/15 17:00	0.4	146	0.1	0.2
	2021/04/15 18:00	0.5	141	0.1	0.3
	2021/04/15 19:00	1	140	0.1	0.4
	2021/04/15 20:00	0.9	134	0.1	0
	2021/04/15 21:00	0.8	135	0.1	0.1
	2021/04/15 22:00	0.4	113	0.1	0
	2021/04/15 23:00	0.4	137	0.1	0
	2021/04/22 19:00	0.2	150	0.1	0.1
	2021/04/28 11:00	1.6	164	0.2	2.5
	2021/04/28 12:00	0.2	124	0.1	0.5
	2021/04/28 18:00	0.2	120	0.1	0
	2021/04/28 19:00	0.3	131	0.1	0
	2021/04/28 20:00	0.9	110	0.1	0
	2021/04/29 11:00	0.4	133	0.1	0.1
	2021/04/29 18:00	0	155	0.1	0
	2021/04/29 19:00	0.1	146	0.1	0.4

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/29 20:00	0.4	93	0.1	0.8
	2021/04/29 21:00	0.4	93	0.1	1.6
Unit 12	2021/04/01 15:00	1.4	147	0.1	2.1
	2021/04/01 16:00	1.1	139	0.1	1.8
	2021/04/01 17:00	0.7	108	0.1	0.7
	2021/04/01 18:00	0.8	133	0.1	0.7
	2021/04/01 19:00	0.9	114	0.1	1
	2021/04/01 20:00	1	129	0.1	0.9
	2021/04/01 21:00	1.1	139	0.1	0.7
	2021/04/04 19:00	0.9	134	0.1	0.6
	2021/04/07 18:00	1.8	143	0.1	1.7
	2021/04/07 19:00	1.5	132	0.1	1.3
	2021/04/07 20:00	1.6	98	0.1	1.8
	2021/04/07 21:00	2.7	104	0.1	2.4
	2021/04/07 22:00	1.6	102	0.1	2.4
	2021/04/07 23:00	1.5	110	0.1	2.7
	2021/04/08 19:00	0.9	114	0.1	1
	2021/04/08 20:00	0.7	93	0.1	0.8
	2021/04/08 21:00	0.8	106	0.1	0.5
	2021/04/09 16:00	1.4	145	0.1	1.1
	2021/04/09 17:00	0.9	138	0.1	1.2
	2021/04/09 18:00	0.9	141	0.1	1.3
	2021/04/09 19:00	1	113	0.1	1.3
	2021/04/09 20:00	1	95	0.1	1.3
	2021/04/09 21:00	1.6	139	0.1	1.4
	2021/04/09 22:00	1.3	109	0.1	1.3
	2021/04/09 23:00	1.4	112	0.1	1.5
	2021/04/10	1.2	118	0.1	1.3
	2021/04/10 01:00	0.8	95	0.1	1.4
	2021/04/10 02:00	0.9	100	0.1	1.5
	2021/04/10 03:00	0.9	111	0.1	1.3
	2021/04/10 04:00	1.2	124	0.1	1.3
	2021/04/10 07:00	1.4	104	0.1	1.6
	2021/04/10 08:00	1	100	0.1	1.1
	2021/04/10 09:00	0.8	108	0.1	0.4
	2021/04/10 10:00	1.1	114	0.1	0.4
	2021/04/10 11:00	0.8	100	0.1	0.5
	2021/04/10 12:00	0.7	100	0.1	0.6
	2021/04/10 13:00	0.8	105	0.1	0.3
	2021/04/10 14:00	0.8	98	0.1	0.4
	2021/04/10 15:00	0.8	92	0.1	0.3
	2021/04/10 16:00	0.8	124	0.1	0.4
	2021/04/10 17:00	0.8	106	0.1	0.3
	2021/04/10 18:00	0.6	97	0.1	0.3

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/10 19:00	0.6	98	0.1	0.3
	2021/04/10 20:00	0.5	124	0.1	0.8
	2021/04/10 21:00	0.2	139	0.1	1
	2021/04/10 22:00	0.3	127	0.1	1.3
	2021/04/10 23:00	0.2	122	0.1	1.2
	2021/04/11	0.5	111	0.1	1.1
	2021/04/11 01:00	0.8	120	0.1	0.3
	2021/04/11 15:00	1.4	140	0.1	1.3
	2021/04/11 16:00	1.7	122	0.1	1.1
	2021/04/11 17:00	1	144	0.1	0.7
	2021/04/11 18:00	1.1	144	0.1	0.7
	2021/04/11 19:00	1.2	139	0.1	0.9
	2021/04/11 20:00	1.3	143	0.1	0.7
	2021/04/11 21:00	1.2	131	0.1	0.5
	2021/04/11 22:00	1.8	98	0.1	0.6
	2021/04/11 23:00	1.3	117	0.1	0.6
	2021/04/12 20:00	1.1	123	0.1	1
	2021/04/12 21:00	1.4	105	0.1	1.1
	2021/04/12 22:00	1.4	102	0.1	1.3
	2021/04/12 23:00	1.3	122	0.1	1.1
	2021/04/13 10:00	2.1	149	0.1	2.5
	2021/04/13 11:00	1.4	153	0.1	2.6
	2021/04/13 12:00	1.3	152	0.1	2.7
	2021/04/13 13:00	1.4	149	0.1	0.3
	2021/04/13 14:00	1.4	147	0.1	0.5
	2021/04/13 15:00	1.5	143	0.1	0.5
	2021/04/13 16:00	1.4	140	0.1	0.5
	2021/04/13 17:00	1.1	143	0.1	0.5
	2021/04/13 18:00	1	147	0.1	0.5
	2021/04/13 19:00	0.9	148	0.1	0.4
	2021/04/13 20:00	0.9	147	0.1	0.5
	2021/04/13 21:00	1	144	0.1	0.2
	2021/04/13 22:00	1	132	0.1	0.2
	2021/04/14 17:00	0.4	145	0.1	0
	2021/04/14 18:00	0.3	145	0.1	0
	2021/04/14 19:00	0.4	134	0.1	0
	2021/04/14 20:00	0.6	135	0.1	0.2
	2021/04/14 21:00	1.3	137	0.1	0.1
	2021/04/14 22:00	0.7	139	0.1	0
	2021/04/15 17:00	1.5	146	0.1	0.6
	2021/04/15 18:00	1.6	145	0.1	0.7
	2021/04/15 19:00	1.7	144	0.1	0.6
	2021/04/15 20:00	1.5	139	0.1	0.7
	2021/04/15 21:00	1.3	141	0.1	0.7
	2021/04/15 22:00	1.1	117	0.1	0.7
	2021/04/15 23:00	1.3	141	0.1	0.7

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/28 11:00	1.8	135	0.1	0.6
	2021/04/28 12:00	1.5	123	0.1	1.4
	2021/04/28 18:00	1.5	121	0.1	0.8
	2021/04/28 19:00	0.9	125	0.1	0.3
	2021/04/28 20:00	1.4	103	0.1	0.4
	2021/04/29 11:00	1.7	133	0.1	1.5
	2021/04/29 18:00	1.5	150	0.1	0.8
	2021/04/29 19:00	1.1	144	0.1	0.6
	2021/04/29 20:00	1.6	101	0.1	0.8
	2021/04/29 21:00	2	104	0.1	0.8
Unit 13	2021/04/01 15:00	1	135	0.1	2.1
	2021/04/01 16:00	1.2	137	0.1	0.9
	2021/04/01 17:00	1.3	117	0.1	0.5
	2021/04/01 18:00	1.6	132	0.1	0.8
	2021/04/01 19:00	1.7	118	0.1	1.4
	2021/04/01 20:00	0.6	114	0.1	1.6
	2021/04/01 21:00	0.7	121	0.2	1.5
	2021/04/04 19:00	1.2	122	0.1	0.7
	2021/04/07 19:00	1	135	0.1	2.1
	2021/04/07 20:00	1.2	137	0.1	0.9
	2021/04/07 21:00	0.6	124	0.1	0.6
	2021/04/07 22:00	1	107	0.2	0.2
	2021/04/07 23:00	2.1	100	0.1	0.3
	2021/04/08 18:00	0.9	98	0.1	0.3
	2021/04/08 19:00	0.5	104	0.2	0.4
	2021/04/08 20:00	1	125	0.2	0.7
	2021/04/08 21:00	0.9	104	0.2	0.4
	2021/04/09 17:00	0.9	96	0.1	1.5
	2021/04/09 18:00	0.7	104	0.1	1.1
	2021/04/09 19:00	1	129	0.1	0.4
	2021/04/09 20:00	1.1	129	0.1	0.5
	2021/04/09 21:00	1.2	107	0.1	0.6
	2021/04/09 22:00	0.6	94	0.2	0.8
	2021/04/09 23:00	0.6	122	0.1	0.6
	2021/04/10	0.3	97	0.1	0.5
	2021/04/10 01:00	0.5	101	0.2	0.5
	2021/04/10 02:00	0.5	112	0.1	0.5
	2021/04/10 03:00	0.2	92	0.1	0.4
	2021/04/10 04:00	0.2	93	0.1	0.1
	2021/04/10 05:00	0.8	108	0.1	0.3
	2021/04/10 06:00	0.5	116	0.1	1.6
	2021/04/10 07:00	0.7	115	0.1	2.5
	2021/04/10 08:00	0.4	94	0.2	3.6
	2021/04/10 10:00	0.2	102	0.2	2.9
	2021/04/10 11:00	1.3	120	0.2	1.8

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/10 12:00	1.3	118	0.2	1.6
	2021/04/10 13:00	1.3	107	0.1	1.4
	2021/04/10 14:00	1.1	99	0.2	1.4
	2021/04/10 15:00	1.1	109	0.1	1.4
	2021/04/10 16:00	1.3	101	0.1	1.1
	2021/04/10 17:00	1.5	97	0.2	2
	2021/04/10 18:00	1.5	129	0.2	1.6
	2021/04/10 19:00	0.9	110	0.1	0.9
	2021/04/10 20:00	1.2	103	0.1	1.1
	2021/04/10 21:00	1.4	104	0.1	1.2
	2021/04/10 22:00	0.5	122	0.1	0.9
	2021/04/10 23:00	0.2	123	0.1	0.8
	2021/04/11	0	110	0.1	0.6
	2021/04/11 01:00	0.3	111	0.1	0.7
	2021/04/11 15:00	0.2	99	0.1	0.1
	2021/04/11 16:00	0.1	111	0.1	0
	2021/04/11 17:00	1.9	127	0.1	2.6
	2021/04/11 18:00	1.2	131	0.1	1
	2021/04/11 19:00	1.3	132	0.1	1.2
	2021/04/11 20:00	1.2	131	0.1	1.3
	2021/04/11 21:00	1.4	125	0.1	1.3
	2021/04/11 22:00	1.4	128	0.1	0.9
	2021/04/11 23:00	1.3	117	0.2	0.6
	2021/04/12 15:00	1.2	96	0.1	0.8
	2021/04/12 16:00	1.2	107	0.1	0.8
	2021/04/12 17:00	1.7	126	0.1	1
	2021/04/12 18:00	1.3	127	0.2	1
	2021/04/12 19:00	1.3	128	0.1	1.2
	2021/04/12 20:00	1.2	127	0.2	1.2
	2021/04/12 21:00	1.1	125	0.2	1.1
	2021/04/12 22:00	0.9	104	0.1	0.9
	2021/04/12 23:00	0.7	94	0.1	1.1
	2021/04/13 10:00	0.5	93	0.1	0.9
	2021/04/13 11:00	0.7	107	0.1	1.2
	2021/04/13 12:00	1	132	0.2	0.8
	2021/04/13 13:00	1.3	139	0.1	1
	2021/04/13 14:00	1.4	140	0.1	0.5
	2021/04/13 15:00	1.5	142	0.1	0.4
	2021/04/13 16:00	1.7	141	0.1	0.3
	2021/04/13 17:00	1.9	136	0.2	0.4
	2021/04/13 18:00	1.4	130	0.1	0.8
	2021/04/13 19:00	1.3	131	0.2	1.3
	2021/04/13 20:00	1	131	0.2	1.2
	2021/04/13 21:00	0.4	130	0.1	0.9
	2021/04/13 22:00	1.1	132	0.1	0.9
	2021/04/14 17:00	1.3	126	0.2	1.1

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/14 18:00	0.9	101	0.1	1.1
	2021/04/14 19:00	0.6	125	0.1	0.5
	2021/04/14 20:00	0.6	126	0.2	0.4
	2021/04/14 21:00	0.4	115	0.1	0.4
	2021/04/14 22:00	0.3	98	0.1	0.3
	2021/04/15 17:00	0.8	98	0.2	0
	2021/04/15 18:00	0.4	107	0.2	0.3
	2021/04/15 19:00	1.1	127	0.1	0.7
	2021/04/15 20:00	2	123	0.1	1.3
	2021/04/15 21:00	2	125	0.2	1.4
	2021/04/15 22:00	1.1	118	0.1	0.6
	2021/04/15 23:00	1.2	127	0.2	0.5
	2021/04/22 19:00	1.4	111	0.2	0.7
	2021/04/28 18:00	1.5	135	0.2	0.9
	2021/04/28 19:00	0.9	127	0.2	0.5
	2021/04/28 20:00	0.6	131	0.1	0.3
	2021/04/29 18:00	0.4	121	0.1	0.3
	2021/04/29 19:00	1.3	134	0.1	1.2
	2021/04/29 20:00	1.3	133	0.1	1.1
Unit 21	2021/04/01 15:00	7.1	162	0	4.9
	2021/04/01 16:00	2	148	0	1.7
	2021/04/01 17:00	6.5	141	0	1
	2021/04/01 18:00	3.7	152	0	2.2
	2021/04/01 19:00	2.4	134	0	0
	2021/04/01 20:00	4.1	147	0	5.1
	2021/04/01 21:00	1.6	144	0	4.9
	2021/04/04 19:00	4.8	140	0	2.6
	2021/04/04 20:00	1.4	110	0	1.3
	2021/04/07 18:00	9.1	152	0	10.3
	2021/04/07 19:00	4	135	0	5.9
	2021/04/07 20:00	3.7	104	0	1.5
	2021/04/07 21:00	5.5	122	0	5.2
	2021/04/07 22:00	2.2	106	0	2
	2021/04/07 23:00	4.4	121	0	3.7
	2021/04/08 18:00	0.7	140	0	1.1
	2021/04/08 19:00	3.9	129	0	5.3
	2021/04/08 20:00	1	100	0	7.3
	2021/04/08 21:00	1.8	122	0	0.8
	2021/04/08 22:00	1.8	110	0	0.4
	2021/04/09 07:00	0.1	93	0	2.7
	2021/04/09 08:00	0.2	81	0	4.2
	2021/04/09 09:00	0.3	79	0	0
	2021/04/09 10:00	0.5	84	0	0
	2021/04/09 11:00	0	102	0	0
	2021/04/09 12:00	1.3	136	0	1.4

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm ³)	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)
	2021/04/09 13:00	0.9	137	0	2
	2021/04/09 14:00	0.9	113	0	0.4
	2021/04/09 15:00	1.6	135	0	0.8
	2021/04/09 16:00	1.7	139	0	0.9
	2021/04/09 17:00	2.2	143	0	2
	2021/04/09 18:00	1.5	143	0	0.6
	2021/04/09 19:00	7	137	0	2.7
	2021/04/09 20:00	2	96	0	2.2
	2021/04/09 21:00	2.9	140	0	0
	2021/04/09 22:00	4.5	122	0	1.6
	2021/04/09 23:00	1.7	127	0	0.2
	2021/04/10	2.3	137	0	3.6
	2021/04/10 01:00	0.2	113	0	1.4
	2021/04/10 02:00	2.1	111	0	3.7
	2021/04/10 05:00	5	160	0	3.9
	2021/04/10 06:00	1.4	104	0	3.4
	2021/04/10 07:00	1.4	118	0	1.1
	2021/04/10 08:00	1.2	111	0	1.5
	2021/04/10 09:00	0	110	0	0.9
	2021/04/10 10:00	0.1	112	0	0.9
	2021/04/10 11:00	0	102	0	1
	2021/04/10 12:00	0.7	95	0	0.5
	2021/04/10 13:00	1.8	114	0	0.5
	2021/04/10 14:00	0.8	94	0	0.3
	2021/04/10 15:00	5.5	97	0	1.2
	2021/04/10 16:00	3.3	121	0	3.5
	2021/04/10 17:00	2.6	105	0	0.3
	2021/04/10 18:00	1.1	94	0	0
	2021/04/10 19:00	4.1	108	0	0.5
	2021/04/10 20:00	1.1	136	0	0.6
	2021/04/10 21:00	0	120	0	0
	2021/04/10 22:00	1.2	118	0	0
	2021/04/10 23:00	2.1	122	0	0.4
	2021/04/11	2.2	99	0	0.4
	2021/04/11 01:00	4.8	126	0	2.8
	2021/04/11 02:00	1.6	93	0	1.1
	2021/04/11 13:00	0	138	0	0.2
	2021/04/11 14:00	0	136	0	0.2
	2021/04/11 15:00	0.2	134	0	0
	2021/04/11 16:00	2.6	148	0	2.4
	2021/04/11 17:00	0.8	145	0	2.2
	2021/04/11 18:00	0	142	0	1.4
	2021/04/11 19:00	0.5	137	0	3.5
	2021/04/11 20:00	0.9	144	0	1.6
	2021/04/11 21:00	0	115	0	0
	2021/04/11 22:00	2.6	95	0	0

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/11 23:00	5.6	121	0	0.7
	2021/04/12 15:00	5.9	142	0	2.3
	2021/04/12 16:00	1.5	135	0	0.9
	2021/04/12 17:00	5.9	143	0	1.4
	2021/04/12 18:00	4.6	144	0	1.1
	2021/04/12 19:00	4.7	142	0	0.7
	2021/04/12 20:00	2	109	0	1.3
	2021/04/12 21:00	0	91	0	0
	2021/04/12 22:00	1.5	96	0	0.1
	2021/04/12 23:00	0.1	113	0	0.1
	2021/04/13 10:00	0.2	141	0	1.4
	2021/04/13 11:00	0	137	0	0.7
	2021/04/13 12:00	1.1	151	0	0.4
	2021/04/13 13:00	0.9	151	0	0
	2021/04/13 14:00	1.7	153	0	0.3
	2021/04/13 15:00	1.8	150	0	0.6
	2021/04/13 16:00	0.9	144	0	0.7
	2021/04/13 17:00	2.3	146	0	0
	2021/04/13 18:00	6.1	159	0	0.2
	2021/04/13 19:00	3.1	153	0	0
	2021/04/13 20:00	4.3	150	0	3.3
	2021/04/13 21:00	3.1	139	0	4.5
	2021/04/13 22:00	2.4	114	0	1.3
	2021/04/13 23:00	4.4	148	0	5.7
	2021/04/14 17:00	2.1	152	0	8.9
	2021/04/14 18:00	0.7	145	0	3
	2021/04/14 19:00	4.3	139	0	8.8
	2021/04/14 20:00	0.9	94	0	8
	2021/04/14 21:00	4.6	101	0	1.2
	2021/04/14 22:00	1.1	97	0	0.9
	2021/04/14 23:00	3.5	116	0	0.7
	2021/04/15 17:00	0.2	141	0	5.2
	2021/04/15 18:00	0	121	0	3.9
	2021/04/15 19:00	0.2	103	0	1.2
	2021/04/15 20:00	0.9	92	0	2.1
	2021/04/15 21:00	0	91	0	0.3
	2021/04/15 22:00	0.6	91	0	0.4
	2021/04/22 19:00	0.9	143	0	1.2
	2021/04/28 18:00	2.5	114	0	0
	2021/04/28 19:00	4.1	122	0	1.6
	2021/04/28 20:00	2.2	99	0	0.4
	2021/04/29 18:00	0.9	139	0	0
	2021/04/29 19:00	4.5	137	0	0
	2021/04/29 20:00	3.5	111	0	1.1
	2021/03/26 07:00	0.8	135	0.1	1.2
	2021/03/26 08:00	1.1	106	0.1	1.3

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/03/26 09:00	1.8	96	0.1	1.6
	2021/03/26 10:00	2	135	0.1	1.6
	2021/03/26 11:00	1.9	137	0.1	1.9
	2021/03/26 12:00	1.5	106	0.1	1.6
	2021/03/26 13:00	1.2	93	0.1	0.3
	2021/03/29 07:00	2.5	136	0.1	2.7
	2021/03/29 08:00	1.5	93	0.1	2.6
	2021/03/29 09:00	1.7	92	0.1	2.3
	2021/03/29 10:00	1.2	92	0.1	2
	2021/03/29 11:00	1	93	0.1	2.1
	2021/03/29 12:00	0.9	97	0.1	2
	2021/03/29 13:00	1.2	101	0.1	0.3
Unit 22	2021/04/01 15:00	0.6	142	0	0.1
	2021/04/01 16:00	2.3	146	0	0.6
	2021/04/01 17:00	2.7	138	0	0.8
	2021/04/01 18:00	2.7	145	0	0.7
	2021/04/01 19:00	2.4	135	0	0.7
	2021/04/01 20:00	2.1	133	0	0.3
	2021/04/01 21:00	2.3	136	0	0.1
	2021/04/04 19:00	0.5	128	0	0.1
	2021/04/04 20:00	1.5	113	0	0.1
	2021/04/07 18:00	0.7	132	0	0.6
	2021/04/07 19:00	0	125	0	0.2
	2021/04/07 20:00	2.5	108	0	0.2
	2021/04/07 21:00	2.2	111	0	0.2
	2021/04/07 22:00	1.8	109	0	0
	2021/04/07 23:00	2	115	0	0.3
	2021/04/08 18:00	0.4	134	0	0.3
	2021/04/08 19:00	0	115	0	0
	2021/04/08 20:00	1.6	103	0	0.4
	2021/04/08 21:00	1.8	116	0	0.4
	2021/04/08 22:00	1.7	111	0	0.4
	2021/04/09 07:00	0	103	0	0
	2021/04/09 08:00	1.4	104	0	0.1
	2021/04/09 09:00	1.9	105	0	0.5
	2021/04/09 10:00	2.1	105	0	0.7
	2021/04/09 11:00	2.5	121	0	0.9
	2021/04/09 12:00	2.5	138	0	0.4
	2021/04/09 13:00	2.7	138	0	0.4
	2021/04/09 14:00	2.9	121	0	0.6
	2021/04/09 15:00	2.5	136	0	0.3
	2021/04/09 16:00	1.9	133	0	0.3
	2021/04/09 17:00	1.7	131	0	0.3
	2021/04/09 18:00	1.6	137	0	0.3
	2021/04/09 19:00	1.9	121	0	0.5

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/09 20:00	2.9	104	0	0.7
	2021/04/09 21:00	2.6	133	0	0.4
	2021/04/09 22:00	2.4	113	0	0.5
	2021/04/09 23:00	2.5	121	0	0.4
	2021/04/10	2.5	128	0	0.5
	2021/04/10 01:00	2.4	120	0	0.4
	2021/04/10 02:00	2.3	114	0	0.5
	2021/04/10 05:00	2.3	139	0	2.4
	2021/04/10 06:00	1.1	103	0	1.9
	2021/04/10 07:00	0.8	107	0	1.5
	2021/04/10 08:00	1.5	109	0	0.6
	2021/04/10 09:00	2.2	112	0	0.7
	2021/04/10 10:00	2.4	109	0	0.7
	2021/04/10 11:00	2.3	110	0	0.9
	2021/04/10 12:00	2	110	0	0.6
	2021/04/10 13:00	2.3	118	0	0.2
	2021/04/10 14:00	2.7	107	0	0.5
	2021/04/10 15:00	2.5	107	0	0.3
	2021/04/10 16:00	1.9	119	0	0.5
	2021/04/10 17:00	1.6	108	0	0.5
	2021/04/10 18:00	1.8	104	0	0.5
	2021/04/10 19:00	1.6	108	0	0.4
	2021/04/10 20:00	2.5	128	0	0.7
	2021/04/10 21:00	2	126	0	0.5
	2021/04/10 22:00	2	118	0	0.4
	2021/04/10 23:00	2.1	119	0	0.5
	2021/04/11	2.4	107	0	0.6
	2021/04/11 01:00	2.6	120	0	0.6
	2021/04/11 13:00	2	139	0	0.9
	2021/04/11 14:00	0.6	134	0	0.1
	2021/04/11 15:00	0.2	136	0	0
	2021/04/11 16:00	2.3	137	0	0.3
	2021/04/11 17:00	2.3	136	0	0.3
	2021/04/11 18:00	2.2	134	0	0.4
	2021/04/11 19:00	2.7	132	0	0.3
	2021/04/11 20:00	2.4	135	0	0.5
	2021/04/11 21:00	2.2	124	0	0.5
	2021/04/11 22:00	2.2	108	0	0.5
	2021/04/11 23:00	1.9	118	0	0.3
	2021/04/12 15:00	1.1	131	0	0.4
	2021/04/12 16:00	1.9	130	0	0.4
	2021/04/12 17:00	1.9	133	0	0.3
	2021/04/12 18:00	2.1	135	0	0.3
	2021/04/12 19:00	1.7	133	0	0.3
	2021/04/12 20:00	2	110	0	0.5
	2021/04/12 21:00	2.2	106	0	0.3

	Date & time	CO (mg/Nm ³)	NO _x (mg/Nm3)	PM (mg/Nm3)	SO ₂ (mg/Nm3)
	2021/04/12 22:00	2.2	105	0	0.4
	2021/04/12 23:00	2.2	114	0	0.5
	2021/04/13 10:00	2.4	134	0	1.1
	2021/04/13 11:00	1.7	139	0	0.8
	2021/04/13 12:00	2.2	141	0	0.3
	2021/04/13 13:00	2.6	139	0	0.4
	2021/04/13 14:00	3	140	0	0.6
	2021/04/13 15:00	3.4	135	0	0.9
	2021/04/13 16:00	2.2	134	0	0.6
	2021/04/13 17:00	1.7	134	0	0.2
	2021/04/13 18:00	1.5	137	0	0.2
	2021/04/13 19:00	1.3	136	0	0.2
	2021/04/13 20:00	2.1	135	0	0.3
	2021/04/13 21:00	2.1	127	0	0.5
	2021/04/13 22:00	1.6	113	0	0.2
	2021/04/13 23:00	1.7	131	0	0.5
	2021/04/14 17:00	0	129	0	0
	2021/04/14 18:00	0	128	0	0
	2021/04/14 19:00	0	117	0	0
	2021/04/14 20:00	2.2	104	0	0.6
	2021/04/14 21:00	2.3	102	0	0.4
	2021/04/14 22:00	1.6	103	0	0.6
	2021/04/14 23:00	1.6	110	0	0.5
	2021/04/15 17:00	0.2	131	0	0
	2021/04/15 18:00	0.1	117	0	0
	2021/04/15 19:00	0.1	108	0	0
	2021/04/15 20:00	2.4	104	0	0.4
	2021/04/15 21:00	2.5	109	0	0.5
	2021/04/15 22:00	2.4	109	0	0.6
	2021/04/22 19:00	0.4	132	0	0.3
	2021/04/28 11:00	19.4	127	0	0.8
	2021/04/28 12:00	19.8	118	0	0.2
	2021/04/28 18:00	16.1	122	0	0
	2021/04/28 19:00	14.1	116	0	0
	2021/04/28 20:00	19.4	110	0	0.6
	2021/04/29 11:00	17.5	122	0	0.2
	2021/04/29 18:00	14.8	134	0	0
	2021/04/29 19:00	13.8	126	0	0
	2021/04/29 20:00	19.8	108	0	0.3
	2021/04/29 21:00	19.9	109	0	0.4

Table 3 (b): Total Emissions

	CO mass (kg)	NO _x mass (kg)	PM mass (kg)	SO ₂ mass (kg)
TOTAL	3236	63132	0	418

Table 4: Each unit and respective days operating under normal operation

Unit	Hours operating under normal operation	Test-run hours	Total
11	117	0	117
12	98	0	98
13	99	0	99
21	116	0	116
22	119	0	119
<i>Total</i>	549	0	549

Table 5: Continuous Emission Monitoring System (CEMS) availability

Associated Unit	Technology Type	Actual Utilisation (%) for the month of April
Unit 11	CEMS	100%
Unit 12	CEMS	100%
Unit 13	CEMS	100%
Unit 21	CEMS	100%
Unit 22	CEMS	100%

NOTE: Continuous Emission Monitoring System (CEMS) is always online unless a fault is reported. The system auto calibrates every four (4) hours and raises an alarm if auto calibration is out of spec. Onsite technicians calibrate the system with calibration gas annually.

Table 6 Average Point Source Emissions released during start-up, maintenance and shut down for the month of April 2021 in mg/Nm³

Associated Unit	NO _x	SO ₂
Unit 11	115.9	5.172
Unit 12	114.0	6.692
Unit 13	129.7	4.583
Unit 21	113.6	4.445
Unit 22	126.0	2.558

4. Comments on the performance

- All 5 units were available to generate power for the month of April 2021
- **Leak detection and Repair programme** – No leaks were reported during April 2021.

5. Load Factor: 14.64 %

6. Complaints Register

Table 7: Complaints

Source Code/ Name	Root Cause Analysis	Calculation of Impacts/ emissions associated with the incident	Dispersion modelling of pollutants where applicable	Measures implemented to prevent reoccurrence	Date by which measure will be implemented
None	N/A	N/A	N/A	N/A	N/A

9 General

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission reports sent to your office.

Do not hesitate to contact Hilton Westman 021-9415856 for any related queries.

Yours sincerely



Pamela Mrubata

ANKERLIG POWER STATION