	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	6
		Document Identifier	240-88543153	Rev	1
		Effective Date	February 2018		
		Review Date	February 2023		

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Date: 2021/04/30

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Ref: H16/1/13-AEL/M1/R1 – Mar 2021

Dear Mr Koenaitse

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF MARCH 2021

This document serves as the monthly emissions report required in terms of Section 7.7.1 of Medupi Power Station Provisional Atmospheric Emission License (AEL), H16/1/13-AEL/M1/R1.

This report is a reflection of Unit 2, 3, 4, 5 and 6 gaseous and particulate emissions performance against the AEL limit for the month of March 2021 only.

1. Raw Materials and Products

Table 1: Quantity of raw materials and products for Unit 2, 3, 4, 5 and 6 in March 2021

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 2, 3, 4, 5 and 6 consumption March 2021
	Coal	Tons/month	1 875 000	744 923
	Fuel Oil	Tons/month	20 000	2074
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 2, 3, 4, 5 and 6 Production Rate in Month of March 2021
	Energy	MW	4 800	2482
	Ash Emitted	Tons/month	not specified	190.93

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Table 2: Daily consumption and production rates

Date	Reportable hours of Operation					Coal usage	Production rate (MW)				
	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6		U2	U3	U4	U5	U6
01-March- 21	24.0	24.0	24.0	0.0	24.0	28836	731	613	790		550
02-March- 21	24.0	24.0	24.0	0.0	21.1	24854	719	492	595		549
03-March- 21	24.0	24.0	24.0	0.0	0.0	21805	716	473	580		280
04-March- 21	24.0	24.0	24.0	0.0	0.0	21725	668	593	584		338
05-March- 21	24.0	8.0	24.0	0.0	9.2	21747	688	600	610		540
06-March- 21	24.0	0.0	24.0	0.0	24.0	18797	700		580		477
07-March- 21	24.0	0.0	24.0	0.0	24.0	21451	704		771		526
08-March- 21	24.0	0.0	24.0	0.0	17.8	21013	794	480	790		539
09-March- 21	24.0	15.7	24.0	0.0	0.0	23800	794	661	654		468
10-March- 21	24.0	24.0	24.0	0.0	19.6	27368	771	684	634		444
11-March- 21	24.0	24.0	24.0	0.0	24.0	28750	760	700	631		538
12-March- 21	24.0	24.0	24.0	0.0	15.3	24721	685	700	625		345
13-March- 21	24.0	24.0	24.0	0.0	3.5	25555	701	656	590		403
14-March- 21	24.0	24.0	24.0	0.0	24.0	27447	725	635	664		411
15-March- 21	24.0	24.0	24.0	0.0	24.0	27898	561	698	729		542
16-March- 21	0.2	24.0	24.0	0.0	24.0	21723	650	700	755		544
17-March- 21	0.0	24.0	24.0	0.0	11.8	20504	413	697	790		468
18-March- 21	5.8	24.0	24.0	0.0	0.0	24623	777	700	760		299
19-March- 21	24.0	24.0	24.0	0.0	10.3	27569	786	699	755		429
21-March- 21	24.0	1.8	24.0	0.0	24.0	25363	794	620	694		496
21-March- 21	24.0	13.8	24.0	0.0	24.0	28458	782	684	715		488
22-March- 21	24.0	14.8	24.0	0.0	24.0	24646	754	698	606		475
23-March- 21	24.0	0.0	24.0	0.0	24.0	27206	752	646	675		502
24-March- 21	24.0	22.1	3.5	0.0	24.0	27462	774	680	629		479
25-March- 21	24.0	24.0	19.6	0.0	24.0	29228	782	655	774		473
26-March- 21	24.0	24.0	24.0	0.0	24.0	28400	791	681	717		438
27-March- 21	12.4	24.0	24.0	0.0	24.0	19856	792	638	395		386
28-March- 21	0.0	24.0	24.0	0.0	24.0	18702		705	464		505
29-March- 21	0.0	24.0	24.0	0.0	24.0	19266		752	461		465
30-March- 21	0.0	24.0	24.0	0.0	24.0	18679		749	475		450
31-March- 21	0.0	24.0	24.0	0.0	24.0	17474		575	476		505

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		Review Date	February 2023			

2. Abatement Technology

Table 3: Abatement Equipment Control Technology efficiency for month of March 2021

Associated Unit/Stack	Technology Type	Efficiency
Unit 1	Fabric Filter Plant (FFP)	-
Unit 2	Fabric Filter Plant (FFP)	99.982%
Unit 3	Fabric Filter Plant (FFP)	99.913%
Unit 4	Fabric Filter Plant (FFP)	99.884%
Unit 5	Fabric Filter Plant (FFP)	-
Unit 6	Fabric Filter Plant (FFP)	99.858%

3. Energy Source Characteristics

Table 4: Energy Source Material Characteristics for the month of March 2021

Characteristic	Stipulated Range (% by weight on a dry basis)	Monthly Average Content (% by weight on a dry basis)
Coal		
Sulphur Content	1.3 - 2.2	1.37
Ash Content	35 - 39	32.46

Table 5: Energy Source Material Characteristics for the month of March 2021

Characteristic	Stipulated Range (%)	Monthly Average Content (%)
Oil		
Sulphur Content	0.5 - 3.5	2.0
Ash Content	0.02 - 0.1	0.010

4. Emissions Reporting

Medupi Power Station uses Continuous Emission Monitoring System which uses the extractive method for analysis.

The emission limits are as follows:

SO₂ Monthly = 3500 mg/Nm³

Dust Daily= 50 mg/Nm³

NO₂ Daily= 750 mg/Nm³

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Review Date	February 2021		

Table 6: Daily averages emissions for the month of March 2021

Date	Final PM mg/Nm ³ (minus 24 hrs for tonnage calc.)						Velocity (m/s) to Gas Volume (Nm ³ /s)						Unit 2 Final CEM mg/Nm ³			Unit 2 Other CEMS Data				Unit 3 Final CEM mg/Nm ³			Unit 3 Other CEMS Data			
	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	SOx	NOx	CO	O ₂	°C	kPa	m/s	SOx	NOx	CO	O ₂	°C	kPa	m/s
2021/03/01		1.6	51.6	11.3		34.2		1319.3	782.3	1234.6		930.0	3 277	371	16	6.2	130.5	89.6	27.1	3 034	316	99	7.5	134.4	83.5	19.7
2021/03/02		1.0	59.5	7.5		48.4		1302.3	700.2	995.0		929.8	3 128	350	18	6.2	133.4	89.5	27.0	2 713	252	99	7.5	127.0	83.5	17.3
2021/03/03		1.2	48.3	7.2				1305.7	672.3	991.2		669.0	3 243	356	18	6.1	134.4	89.3	27.0	2 790	250	99	7.5	126.4	83.3	16.6
2021/03/04		1.3	23.4	6.7				1237.7	751.9	997.4		637.6	3 160	348	14	6.4	130.7	89.1	26.0	2 886	234	13	7.5	129.1	83.2	18.8
2021/03/05		2.2	23.8	7.8		61.6		1277.2	762.6	1027.6		898.1	3 210	358	13	6.3	132.3	89.2	26.7	2 930	235	99	7.5	128.1	83.2	19.0
2021/03/06		2.0		7.4		37.4		1274.8		992.5		795.0	3 210	359	13	6.4	131.3	89.4	26.7							
2021/03/07		2.0		11.6		32.2		1281.7		1232.4		864.9	3 213	365	14	6.3	133.3	89.3	26.8							
2021/03/08		3.4		14.2		42.7		1422.9	714.4	1259.2		887.0	3 051	349	26	5.7	135.2	89.1	28.6	2 618	244	9	7.1	126.2	83.1	17.1
2021/03/09		4.3	28.2	18.2				1409.2	793.8	1070.9		784.0	3 016	352	26	5.8	135.2	88.4	28.7	3 044	256	15	7.5	133.6	83.1	20.0
2021/03/10		4.6	28.4	18.4		32.9		1396.6	803.2	1059.2		793.3	2 962	319	25	5.8	134.3	89.1	28.2	3 124	243	251	7.5	136.2	83.1	20.4
2021/03/11		4.7	27.1	18.3		38.1		1372.6	804.5	1055.4		881.0	3 080	346	15	6.1	136.0	89.1	28.4	3 257	263	1	7.5	139.2	83.1	20.6
2021/03/12		3.6	26.1	15.9		12.0		1251.4	805.7	1052.7		614.1	3 060	351	14	6.6	130.6	89.4	26.7	3 233	259	99	7.5	137.7	83.3	20.5
2021/03/13		4.2	25.4	13.4		18.1		1269.6	776.3	1020.2		690.5	3 147	357	14	6.5	132.4	89.6	27.0	3 101	252	99	7.5	136.6	83.5	19.6
2021/03/14		4.2	22.2	15.5		15.5		1297.2	769.3	1089.5		703.5	3 435	377	17	6.3	133.6	89.5	27.3	3 436	263	99	7.5	137.6	83.5	19.5
2021/03/15		3.7	27.2	18.3		39.4		1059.0	793.6	1154.3		898.7	3 266	360	23	7.5	128.8	89.3	24.4	3 540	270	811	7.5	140.1	83.3	20.4
2021/03/16		2.7	27.6	23.8		42.4		1129.1	794.6	1203.4		883.0	3 371	352	12	6.6	131.5	89.1	24.3	3 364	270	99	7.5	138.8	83.3	20.3
2021/03/17			29.7	38.0		50.3		819.6	787.8	1250.4		829.8	3 331	410	18	9.5	120.5	89.3	22.2	3 250	267	99	7.8	139.0	83.3	20.4
2021/03/18		6.4	30.2	44.9				1381.4	784.0	1202.8		624.8	3 234	340	36	5.8	132.6	89.3	27.9	3 223	269	99	7.8	141.1	83.4	20.5
2021/03/19		7.9	44.0	41.1		37.7		1396.3	631.6	1199.0		735.5	3 144	347	28	5.8	132.5	89.3	28.3	2 895	266	99	9.5	144.5	83.4	20.4
2021/03/20		9.4	31.5	38.5		38.2		1433.3	666.4	1124.1		842.3	3 112	348	29	5.7	133.5	89.3	28.7	3 281	283	229	9.1	140.0	83.3	19.5
2021/03/21		10.7	29.9	38.4		39.2		1375.4	748.1	1139.7		830.5	3 157	338	27	6.0	132.7	89.2	28.2	3 280	269	99	8.1	141.6	83.3	20.1
2021/03/22		9.6	30.9	32.1		39.5		1337.1	711.5	1009.2		813.4	3 267	349	20	6.1	131.6	89.4	27.6	2 805	252	99	8.3	142.5	83.4	20.8
2021/03/23		9.0		36.3		52.1		1330.3	694.6	1085.2		850.3	3 297	347	18	6.2	132.6	89.6	27.6	3 389	249	17	7.7	141.3	83.6	19.8
2021/03/24		8.9	31.7	32.9		47.7		1363.1	740.5	1024.1		809.2	3 301	358	19	6.0	132.7	89.5	27.9	3 170	265	31	8.4	143.8	83.5	20.5
2021/03/25		10.1	29.3	37.5		50.0		1371.3	716.8	1201.4		805.1	3 272	374	23	6.0	132.5	89.1	28.2	3 166	268	22	8.7	141.5	83.3	20.3
2021/03/26		11.8	35.4	30.3		36.9		1396.2	742.5	1139.3		749.7	3 238	381	36	5.9	134.1	89.0	28.6	3 167	284	19	8.2	143.7	83.2	20.3
2021/03/27		11.0	28.6	14.0		25.5		1393.5	695.5	728.6		671.0	3 210	367	37	5.9	133.0	89.2	28.5	3 227	281	22	8.6	143.9	83.3	19.7
2021/03/28			30.2	16.0		41.0			798.1	839.5		838.4								3 080	262	32	7.5	145.3	83.5	20.4
2021/03/29			33.2	20.9		53.2			837.7	835.8		790.3								3 104	292	28	7.4	147.3	83.7	21.4
2021/03/30			34.8	13.7		46.9			835.8	848.3		768.3								2 871	278	37	7.4	147.2	83.6	21.3
2021/03/31			34.5	13.4		20.2			614.4	857.8		852.2								3 071	328	51	9.4	142.7	83.6	18.7

Note: Unit 3 O₂ measurement was averaged for most of the time during the month; this is due to unavailability of the O₂ monitor. Unit 1 is not yet in commercial operation. There is no reportable for the area shaded yellow due to the grace period on reporting for PM, the grey blocks on gases represent days wherein unit was off load.

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Date	Unit 4 Final CEM mg/Nm ³			Unit 4 Other CEMS Data				Unit 5 Final CEM mg/Nm ³			Unit 5 Other CEMS Data				Unit 6 Final CEM mg/Nm ³			Unit 6 Other CEMS Data			
	SOx	NOx	CO	O ₂	°C	kPa	m/s	SOx	NOx	CO	O ₂	°C	kPa	m/s	SOx	NOx	CO	O ₂	°C	kPa	m/s
2021/03/01	3 183	381	31	5.7	130.3	89.9	24.0							3 009	343		8.1	131.4	89.9	21.3	
2021/03/02	3 130	362	26	7.6	122.7	89.8	21.5							2 959	320		7.8	134.1	89.9	21.1	
2021/03/03	3 217	362	19	7.6	122.0	89.7	21.5							2 445	367		10.3	122.6	89.6	18.3	
2021/03/04	3 096	374	19	7.5	121.6	89.4	21.5							2 893	397		10.4	123.9	89.4	17.7	
2021/03/05	3 159	427	67	7.2	125.0	89.5	21.9							3 072	366		8.0	134.7	89.4	20.8	
2021/03/06	3 145	423	22	7.6	122.8	89.7	21.6							3 087	418		8.7	133.6	89.7	19.3	
2021/03/07	3 190	387	77	5.7	134.6	89.7	24.2							3 122	371		7.8	134.1	89.7	19.7	
2021/03/08	3 002	351	108	5.4	134.7	89.4	24.3							2 960	350		7.8	135.2	89.4	20.2	
2021/03/09	3 008	382	38	6.9	130.2	89.4	22.6							2 839	377		8.9	133.5	89.4	19.5	
2021/03/10	2 933	359	31	7.0	128.4	89.4	22.5							2 828	378		8.8	132.5	89.4	19.4	
2021/03/11	3 062	357	20	7.1	130.8	89.4	22.6							2 942	333		7.9	134.2	89.4	20.1	
2021/03/12	2 976	373	23	7.1	127.6	89.7	22.4							2 880	398		10.5	121.5	89.7	16.9	
2021/03/13	2 974	369	19	7.3	126.6	89.9	21.8							2 838	400		9.9	124.3	89.9	18.1	
2021/03/14	3 350	426	26	7.0	132.2	89.8	23.2							3 184	454		10.0	126.1	89.8	18.7	
2021/03/15	3 156	396	37	6.6	133.5	89.5	24.0							3 075	359		8.0	129.1	89.5	20.6	
2021/03/16	3 221	369	87	6.0	135.9	89.4	24.2							3 112	360		8.0	130.5	89.4	20.2	
2021/03/17	2 937	349	68	5.7	135.6	89.5	24.6							2 744	351		8.9	122.2	89.6	20.0	
2021/03/18	2 923	358	47	6.0	134.6	89.6	24.1							2 528	348		10.1	111.5	89.6	16.3	
2021/03/19	2 991	351	71	6.0	133.5	89.6	24.0							2 846	362		9.1	124.5	89.6	18.2	
2021/03/20	2 950	377	34	6.5	133.8	89.6	23.3							2 836	374		8.2	133.3	89.6	19.7	
2021/03/21	2 978	341	76	6.5	131.9	89.5	23.4							2 887	370		8.3	132.0	89.5	19.5	
2021/03/22	3 006	415	31	7.6	125.5	89.7	22.1							2 915	381		8.5	131.0	89.6	19.4	
2021/03/23	3 054	396	29	7.1	130.8	90.0	23.1							2 962	370		8.4	131.1	90.0	20.0	
2021/03/24	3 089	367	24	7.8	126.7	89.9	22.8							2 968	395		8.6	130.8	89.9	19.4	
2021/03/25	3 135	372	23	6.2	132.5	89.5	24.3							2 903	407		8.6	131.0	89.5	19.3	
2021/03/26	3 155	410	26	6.5	132.7	89.4	23.6							2 869	377		8.7	131.0	89.4	18.2	
2021/03/27	3 065	459	27	10.6	116.0	89.5	20.1							2 892	362		9.6	130.0	89.4	17.6	
2021/03/28	3 016	461	23	9.3	120.8	89.8	20.8							2 918	299		8.4	134.4	89.7	19.9	
2021/03/29	3 215	492	22	9.4	120.4	90.1	20.7							3 078	335		8.8	134.0	90.0	19.3	
2021/03/30	3 008	469	22	9.0	122.5	90.0	20.5							2 876	318		9.0	134.1	89.9	19.1	
2021/03/31	3 066	468	20	8.6	124.8	90.0	20.2							2 965	300		8.4	133.1	89.9	20.1	

Note: Unit 3 O₂ measurement is an average for a month; this is due to unavailability of the O₂ monitor. Unit 1 is not yet in commercial operation. There is no reportable for the area shaded yellow due to the grace period on reporting for PM, the grey blocks on gases represent days wherein unit was off load. Unit 6 co monitor was faulty during the reporting period.

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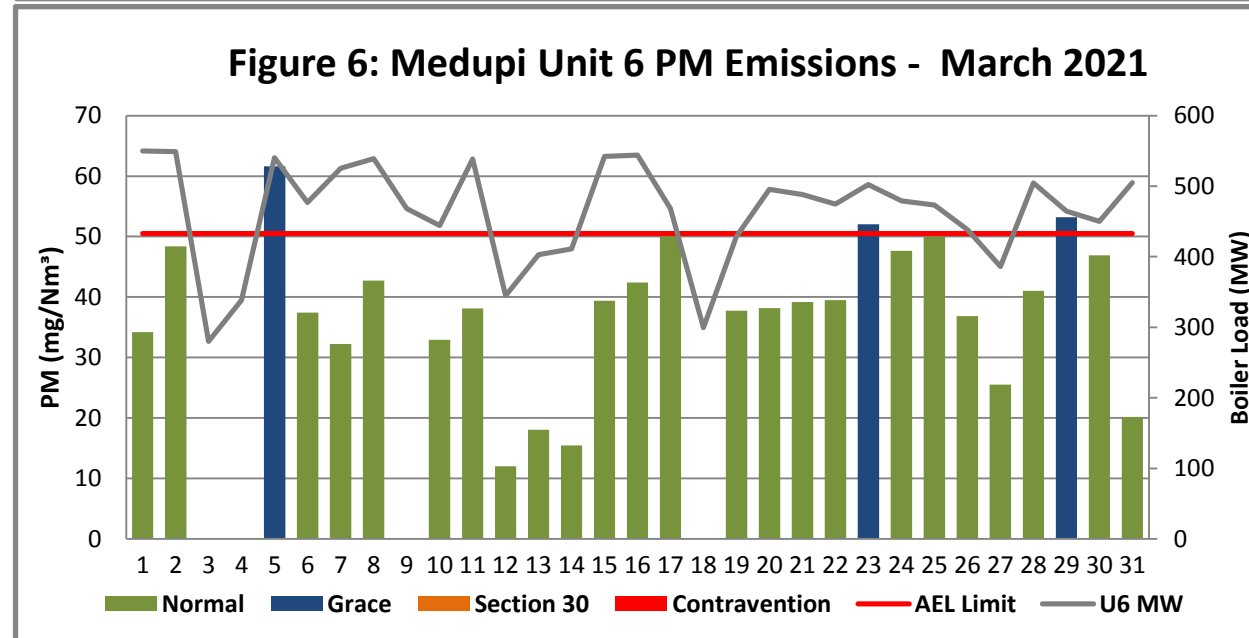
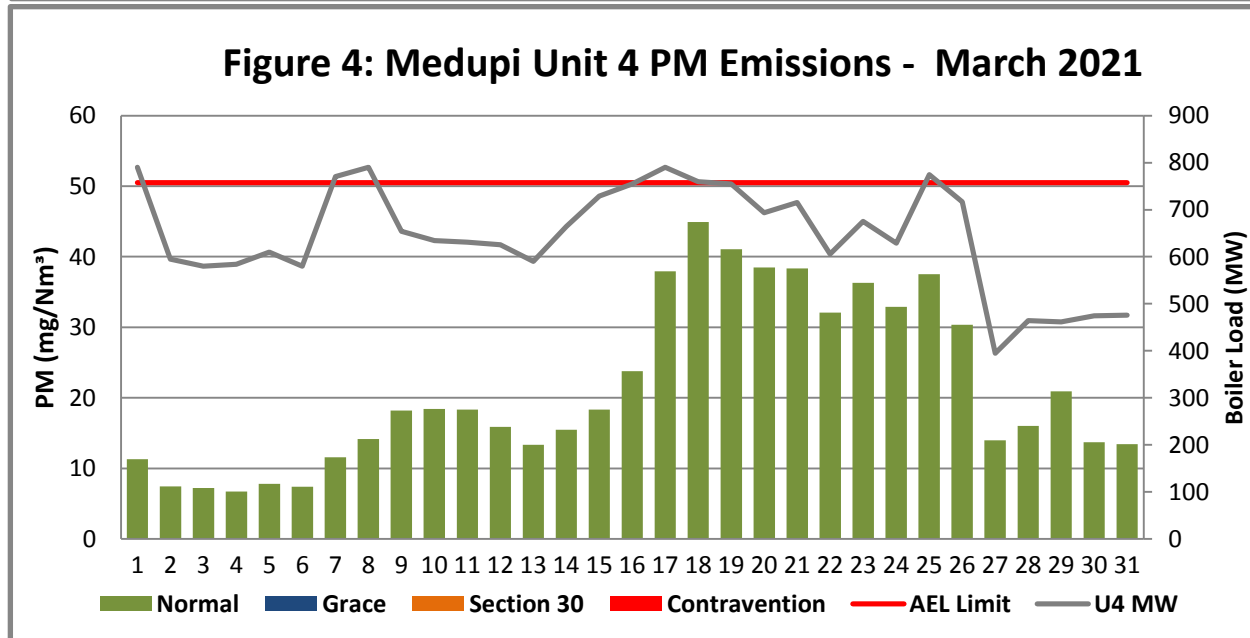
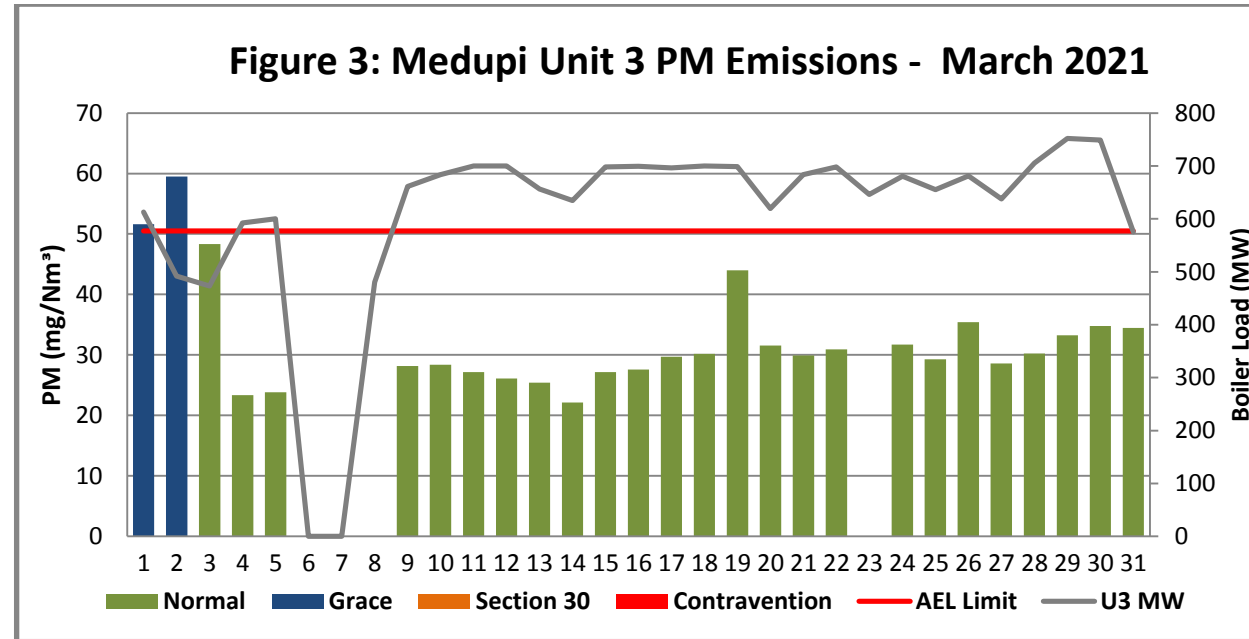
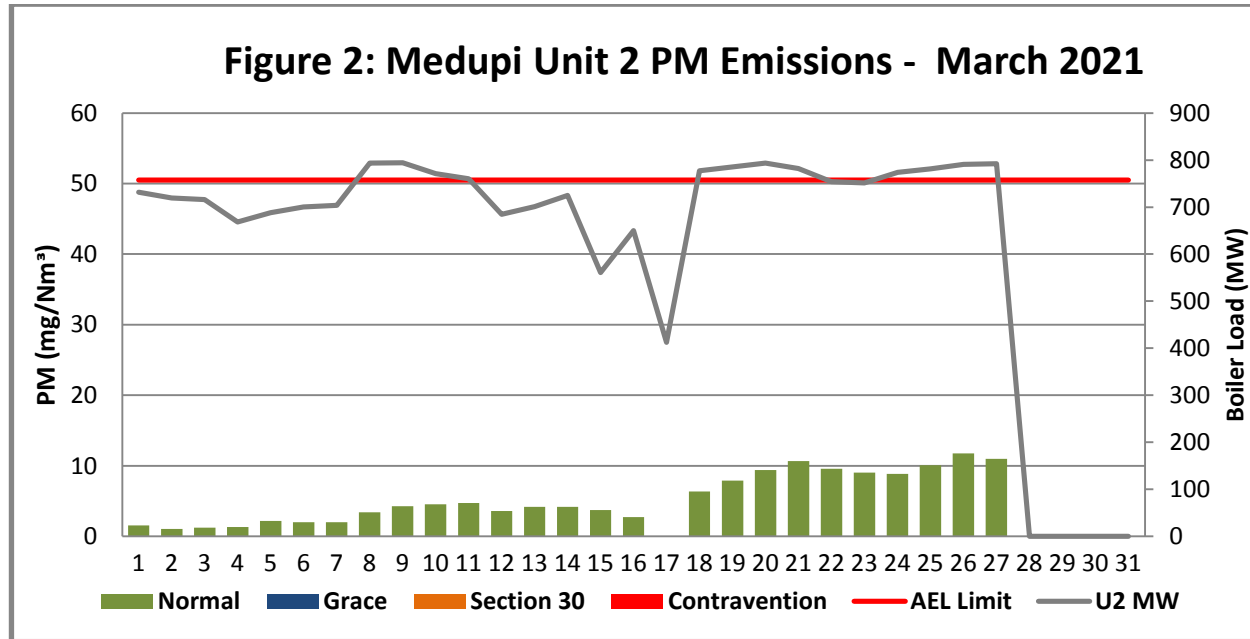
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Note: exceedances of PM limit are due incident of bag damages in the PJFF plant, cell are isolated and inspected online to identify those influencing emissions. Online bag replacement is done on those cells with high dust emissions.

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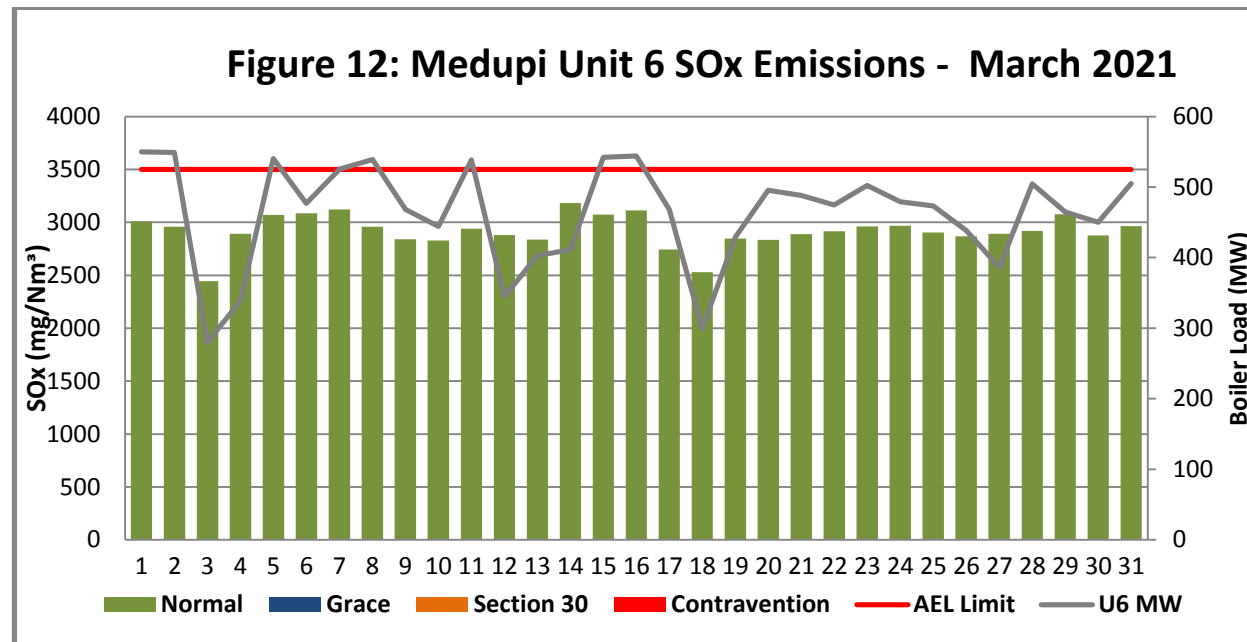
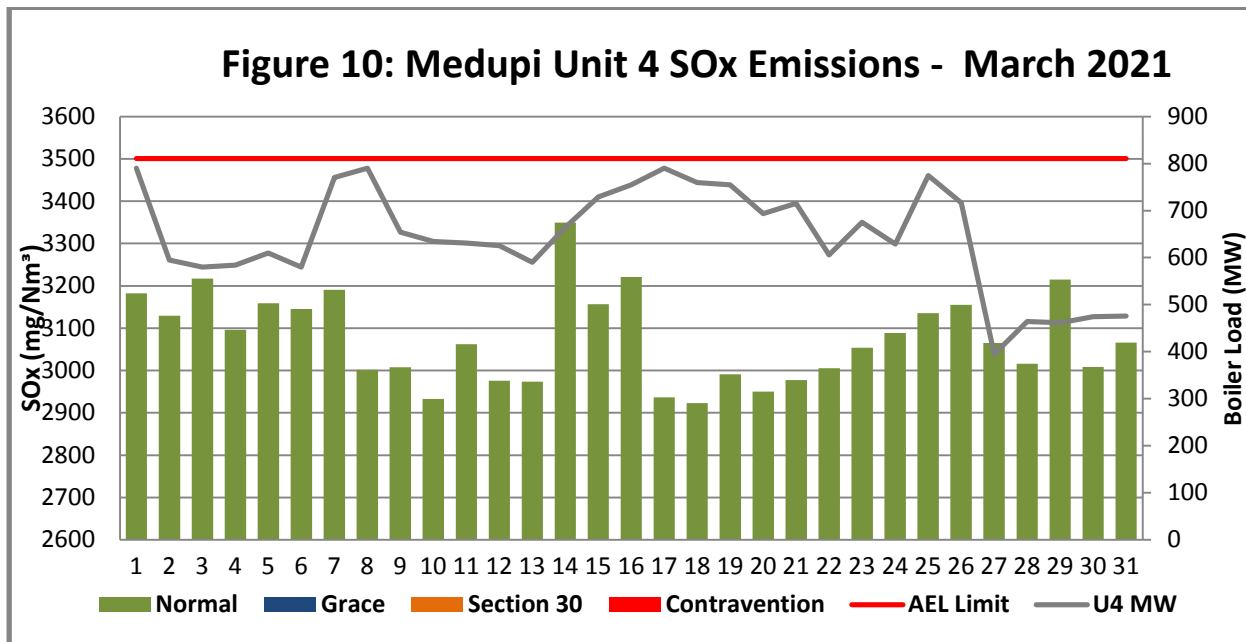
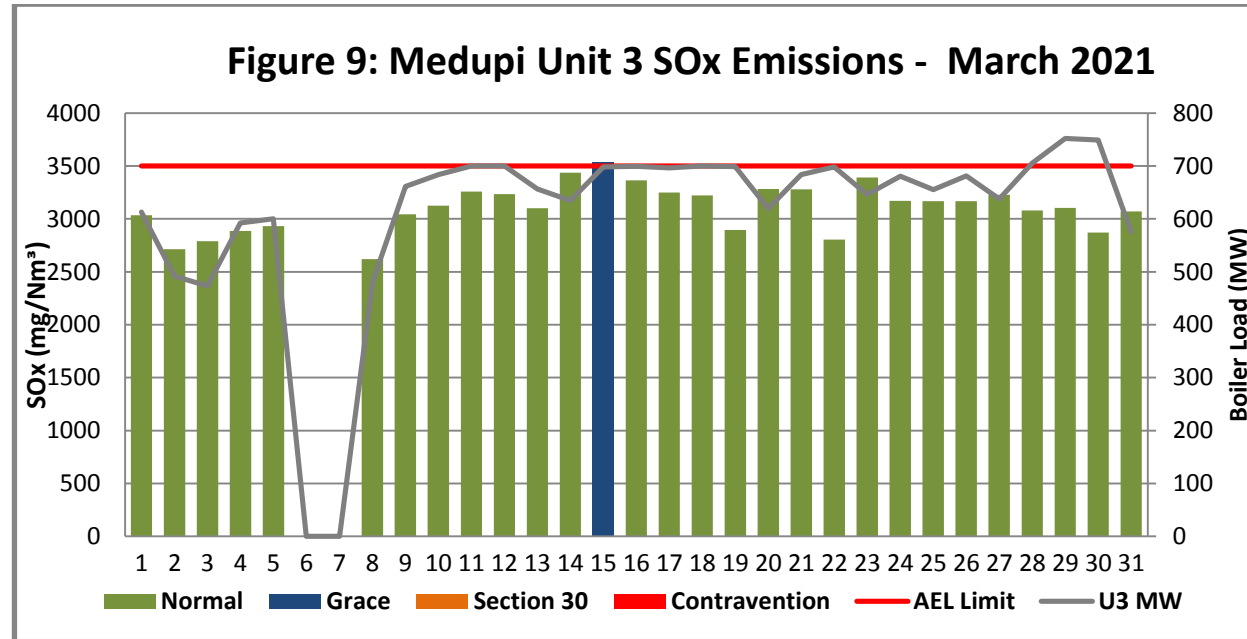
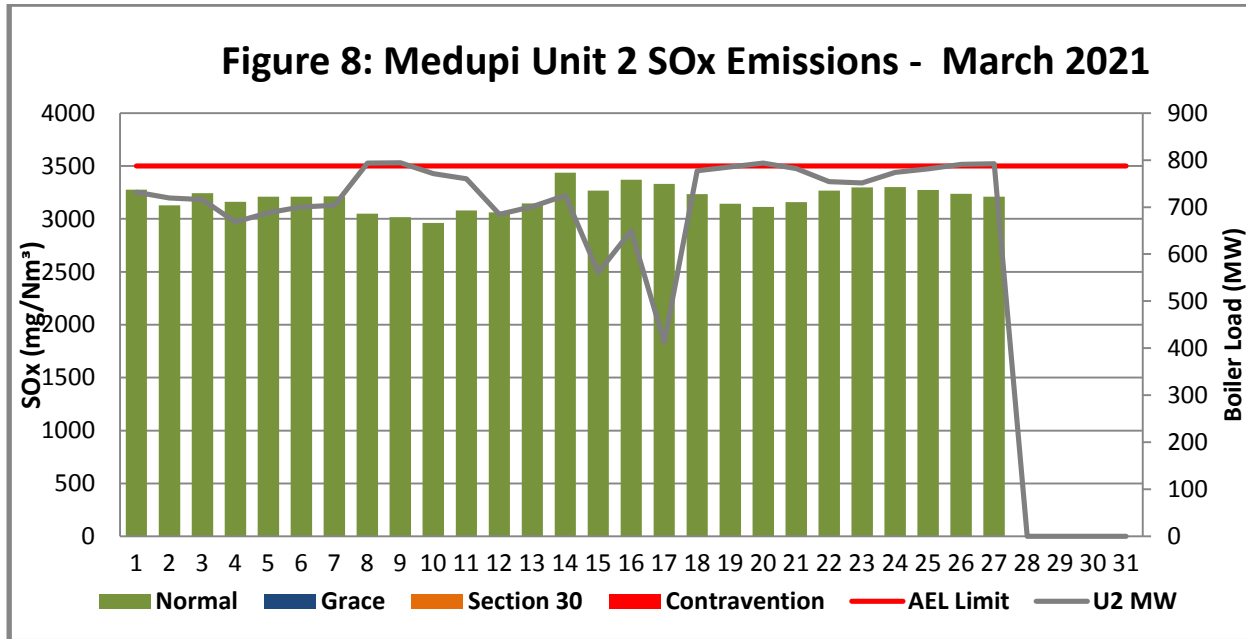
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Medupi Power Station Monthly Emissions Report

Template Identifier	240-43921804	Rev	6
Document Identifier	240-88543153	Rev	1
Effective Date	February 2018		
Review Date	February 2021		



Note: SO₂ emissions intermittent exceedances of daily limit of 3500mg/Nm³ (station internal limit) is evident in the SO₂ figures, there was no incident that led to exceedance of the monthly limit of 3500mg/Nm³ (AEL limit).

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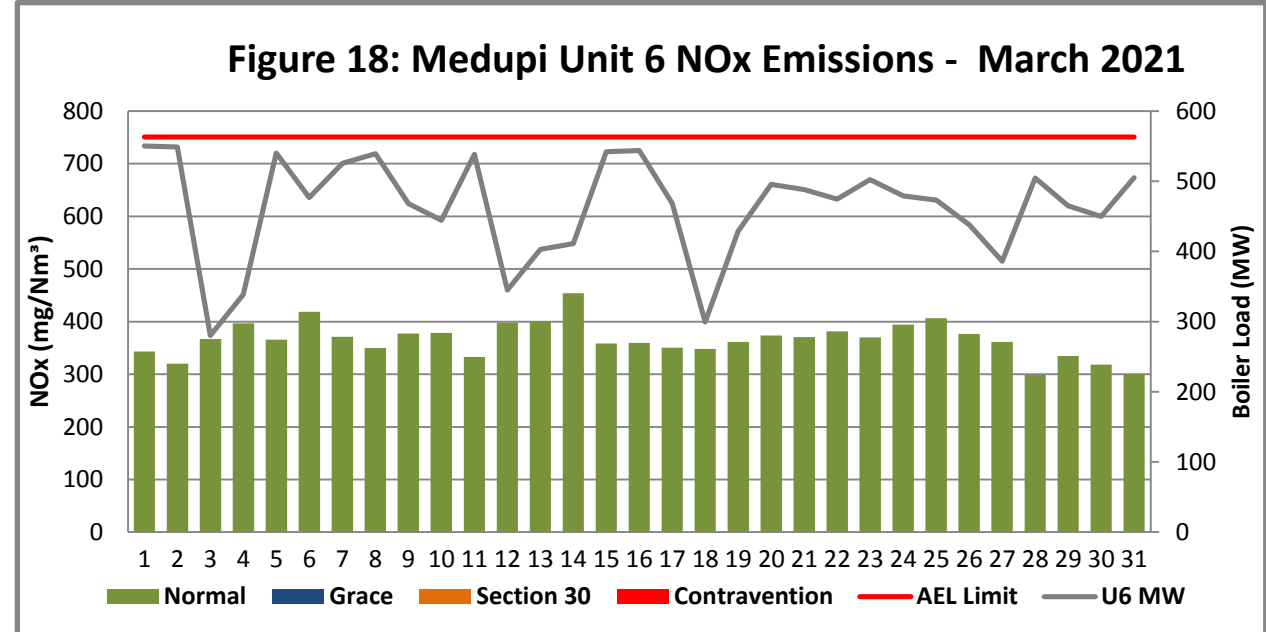
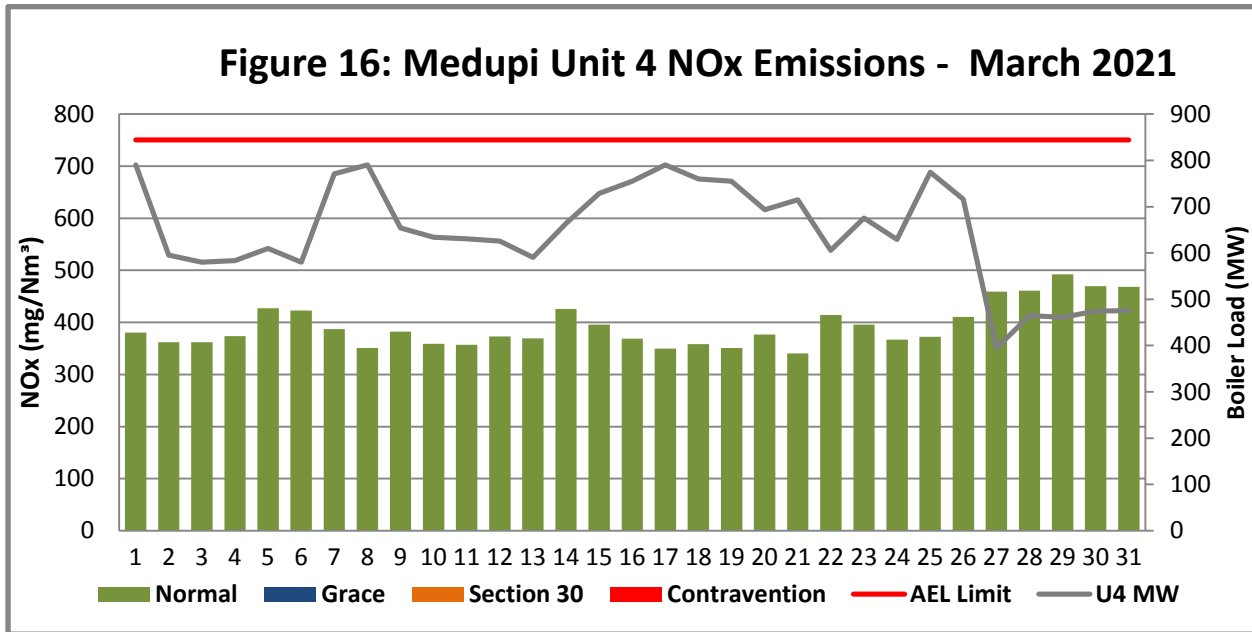
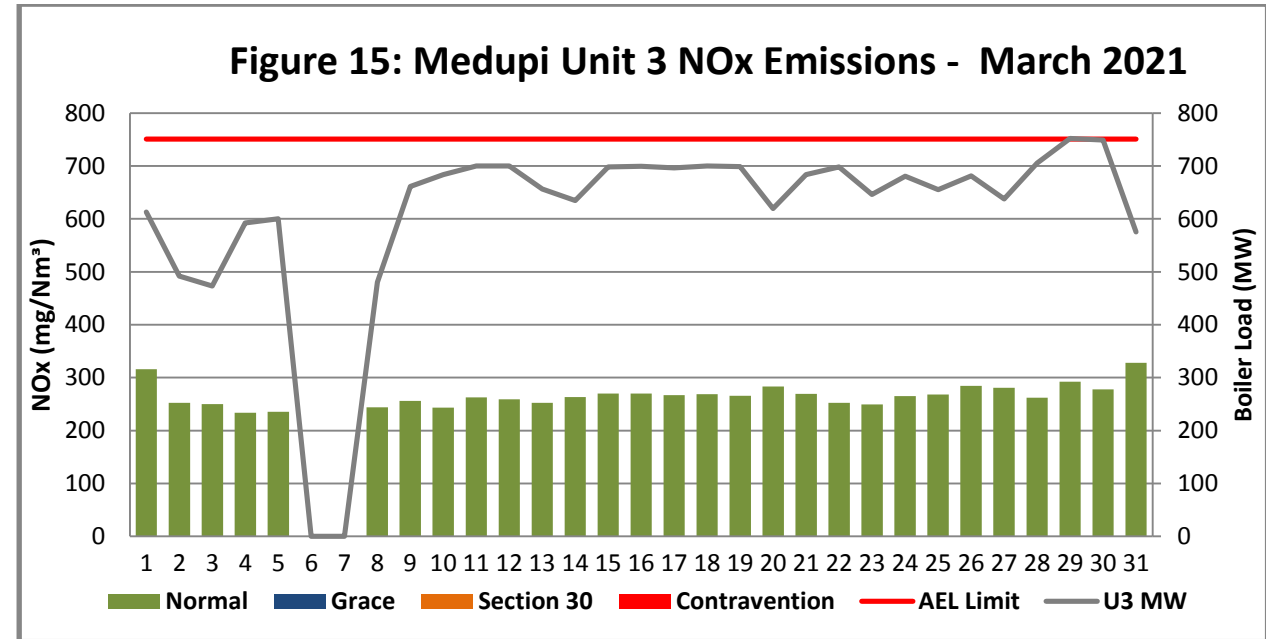
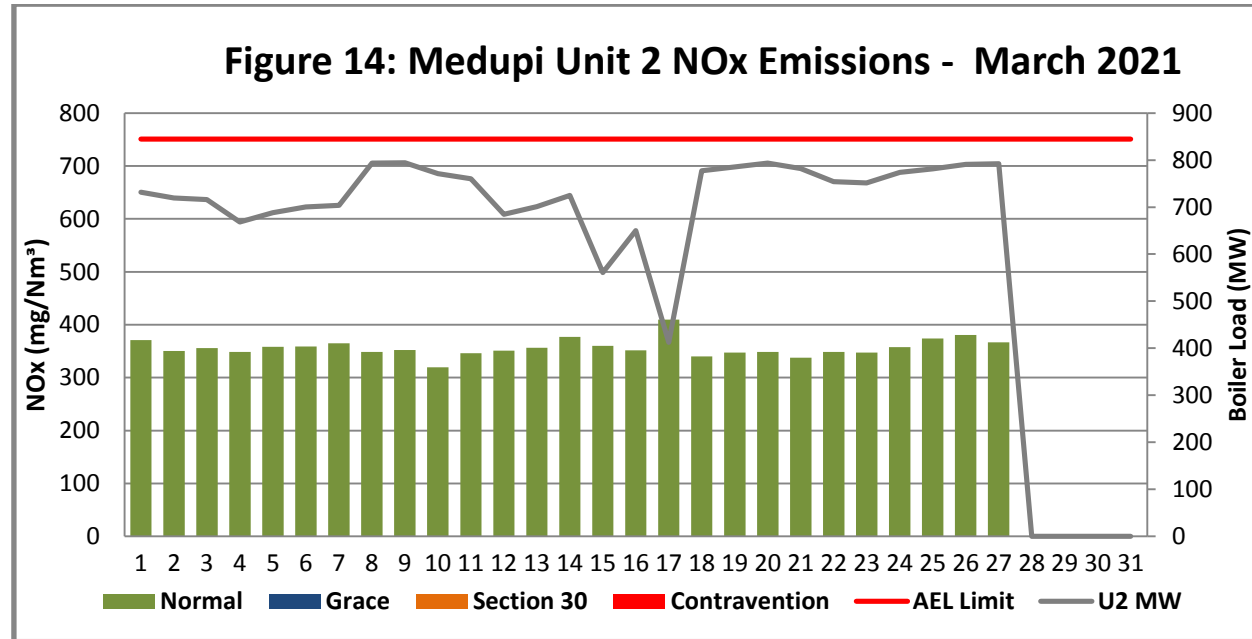
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Medupi Power Station graphical representation of the daily average emissions

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		Document Identifier	240-88543153	Rev	1	
		Effective Date	February 2018			
		Review Date	February 2021			

Table 7: Monthly tonnages for the month of March 2021

Unit	PM (tons)	SO ₂ (tons)	NO ₂ (tons)	CO (tons)
1	-	-	-	-
2	10.5	6 190	688	42
3	49.2	5 027	431	170
4	69.8	10 192	1 288	135
5	0.0	0	0	0
6	61.4	5 525	685	0
SUM	190.9	26 934	3 093	347

5. Shutdown/start-up information


Table 8: PM Start-up information for the month of March 2021

Unit No.	2		3		5		4	
Breaker Open (BO)	12:10 AM	2021/03/16	08:00 AM	2021/03/05	09:05 PM	2021/03/02	03:15 PM	2021/03/12
Draught Group (DG) Shut Down (SD)	05:30 AM	2021/03/16	08:05 AM	2021/03/05	09:10 PM	2021/03/02	03:15 PM	2021/03/12
BO to DG SD (duration)	00:05:20	DD:HH:MM	00:00:05	DD:HH:MM	00:00:05	DD:HH:MM	00:00:00	DD:HH:MM
Fires in time	06:50 PM	2021/03/16	08:45 PM	2021/03/07	09:55 PM	2021/03/02	04:00 PM	2021/03/12
Synch. to Grid (or BC)	06:10 PM	2021/03/17	08:15 AM	2021/03/08	02:45 PM	2021/03/04	08:25 PM	2021/03/12
Fires in to BC (duration)	00:23:20	DD:HH:MM	00:11:30	DD:HH:MM	01:16:50	DD:HH:MM	00:04:25	DD:HH:MM
Emissions below limit from BC (end date)	not > limit	not > limit	not > limit	not > limit	not > limit	not > limit	not > limit	not > limit
Emissions below limit from BC (duration)	n/a	DD:HH:MM	n/a	DD:HH:MM	n/a	DD:HH:MM	n/a	DD:HH:MM

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		Document Identifier	240-88543153	Rev	1
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6. Continuous Emission Monitoring Systems (CEMS)

Unit 2, 3, 4, 5 and 6 Continuous Emission Monitoring Systems were in operation at all times when the unit was on load.

Table 7: Periods during which CEMS was inoperative

Date	Time	CEMS status	Comments
March 2021	N/A	malfunction	Unit 2,4 and 5 dust monitor component (blower) malfunctioning

Table 8: CEMS Monitor Reliability

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	-	-	-	-
Unit 2	95.7	95.7	95.7	95.7
Unit 3	100.0	95.4	94.0	49.1
Unit 4	100.0	99.7	99.7	99.7
Unit 5	-	-	-	-
Unit 6	100.0	99.5	99.5	97.8

7. CEMS Calibration certificates and equipment used for calibration

CEMS calibration certificates shall be made available for all units upon request.


8. Ambient Air Quality Monitoring Report

The Ambient Air Quality Monitoring and Dust fall-out report are emailed to the Licensing authority on a monthly basis.

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9. Visual inspection of the exterior walls of the fuel oil tanks and TVOC Estimation

Visual inspection was conducted and there were no leaks observed on the exterior walls of the fuel oil tanks.

Table 9: Total Volatile Organic Compound (TVOC) for March 2021

FINAL OUTPUT:	Result	Unit
Breathing losses:	0.61	kg/month
Working losses:	0.06	kg/month
<i>TOTAL LOSSES (Total TVOC Emissions for the month):</i>	0.67	kg/month

10. Air quality improvements initiatives and public education and awareness campaigns

No awareness campaign.

11. Complaints Register


Table 10: Complaints for the month of March 2021

Source Code/ Name	Air pollution complaints received	Calculation of Impacts/ emissions associated with the incident	Date of complaint and date of response by the license holder	Results of investigation	Action taken to resolve the complaint
N/A	No complaints received	N/A	N/A	N/A	N/A

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Compiled by: Lufuno Tshidzumba 
Senior Environmental Advisor

Verified by: Malose Langa 
System Engineer Boiler

Verified by: Petri De Kock 
System Engineer C&I

Supported by: Sithokozile Hlongwa 
Boiler Engineering Manager

Supported by: Rosetta Rammutla 
Environmental Manager

Supported by: Jabulani Mkhathswa 
Engineering Group Manager

I Wikus Janse Van Rensburg, declares that the information provided in this report is accurate and correct.

Yours sincerely


 Wikus Janse Van Rensburg
GENERAL MANAGER: MEDUPI POWER STATION

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