Eskom

Generation

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Total number of pages:14

Total number of Annexes:1

DUVHA POWER STATION

Atmospheric Emission License: NDM/AEL/MP312/11/07

GENERAL MANAGER

2026/04/29
DATE

Eskom

MARCH 2026

DUVHA POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License: NDM/AEL/MP312/11/07

1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate	Consumption Rate Mar-2026
	Coal	Tons	*1 400 000*	*373 086.62*
	Fuel Oil	Tons	*5 000*	*3484.44*
Production Rates	**Product / By-Product Name**	**Units**	**Max Production Capacity Permitted**	**Indicative Production Rate Mar-2026**
	Energy	GWh	*2 160.000*	*575.29*
	Ash	Tons	*562 464*	*91 443.53*

Note: Max energy rate = AEL capacity [3,600 MW] × 24 hrs × days in month ÷ 1,000 (to convert to GWh).

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
Sulphur Content	%	*0.6 - 1.2*	*0.68*
Ash Content	%	*30.2*	*24.51*

3 EMISSION LIMITS (mg/Nm³)

	Daily Limit		
Associated Unit/Stack	**PM**	**SO_2**	**NO_x**
Unit 1	*50*	*2600*	*1100*
Unit 2	*50*	*2600*	*1100*
Unit 4	*100*	*2600*	*1100*
Unit 5	*50*	*2600*	*1100*
Unit 6	*100*	*2600*	*1100*

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	ESP Efficiency	Technology Type	SO_3 Plant Utilization
Unit 1	*FFP*	*99.95%*	*FFP*	*n/a*
Unit 2	*FFP*	*99.89%*	*FFP*	*n/a*
Unit 4	*ESP + SO_3*	*99.89%*	*SO_3*	*100.00%*
Unit 5	*ESP + SO_3*	*99.89%*	*SO_3*	*99.20%*
Unit 6	*ESP + SO_3*	*99.79%*	*SO_3*	*100.00%*

Note: The ESP plant does not have a bypass mode; therefore, it operates at 100% utilization.

5 DATA RELIABILITY (%)

Associated Unit/Stack	PM	SO_2	NO	O_2
Unit 1	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*
Unit 2	*99 1*	*89 3*	*89 5*	*100 0*
Unit 4	*100 0*	*69 8*	*69.8*	*100 0*
Unit 5	*100 0*	*98 7*	*98 7*	*99 7*
Unit 6	*99 0*	*83 7*	*84 0*	*86 4*

Note: NO_x emissions are measured as NO in PPM The final NO_x value is expressed as total NO_2 equivalent

6 EMISSION PERFORMANCE

Table 6 1. Monthly tonnages for March 2026

Associated Unit/Stack	PM (tons)	SO_2 (tons)	NO_x (tons)
Unit 1	*Unit Offload*	*Unit Offload*	*Unit Offload*
Unit 2	39 8	2 621	1 060
Unit 4	7 5	513	178
Unit 5	15 9	1 161	408
Unit 6	36 5	2 171	867
SUM	99 74	6 466	2 513

Table 6 2 PM AEL Daily - March 2026

Associated Unit/Stack	Normal Days	Number of days in Grace period	Number of Section 30 days	Number of days In contravention	Total Exceedance	Mo Avg (mg/Nm³)
Unit 1	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*
Unit 2	28	0	0	0	0	21 2
Unit 4	6	0	0	0	0	41 5
Unit 5	14	1	0	0	1	29 6
Unit 6	21	0	0	0	0	31 9
SUM	**69**	**1**	**0**	**0**	**1**	

Table 6.3: SO_2 AEL Daily - March 2026

Associated Unit/Stack	Normal Days	Number of days in Grace period	Number of Section 30 days	Number of days In contravention	Total Exceedance	Mo Avg (mg/Nm³)
Unit 1	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*
Unit 2	29	0	0	0	0	1 349.5
Unit 4	10	0	0	0	0	1 529.1
Unit 5	17	0	0	0	0	1 687.6
Unit 6	22	0	0	0	0	1 692.7
SUM	**78**	**0**	**0**	**0**	**0**	

Table 6.4: NO_x AEL Daily - March 2026

Associated Unit/Stack	Normal Days	Number of days in Grace period	Number of Section 30 days	Number of days In contravention	Total Exceedance	Mo Avg (mg/Nm³)
Unit 1	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*	*Unit Offload*
Unit 2	29	0	0	0	0	544.7
Unit 4	10	0	0	0	0	519.3
Unit 5	17	0	0	0	0	591.0
Unit 6	22	0	0	0	0	662.2
SUM	**78**	**0**	**0**	**0**	**0**	

Table 6.5: Legend Description

Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace		Emissions above the ELV during grace period
Section 30		Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions

Figure 1: Duvha Unit 2 PM Emissions - March 2026

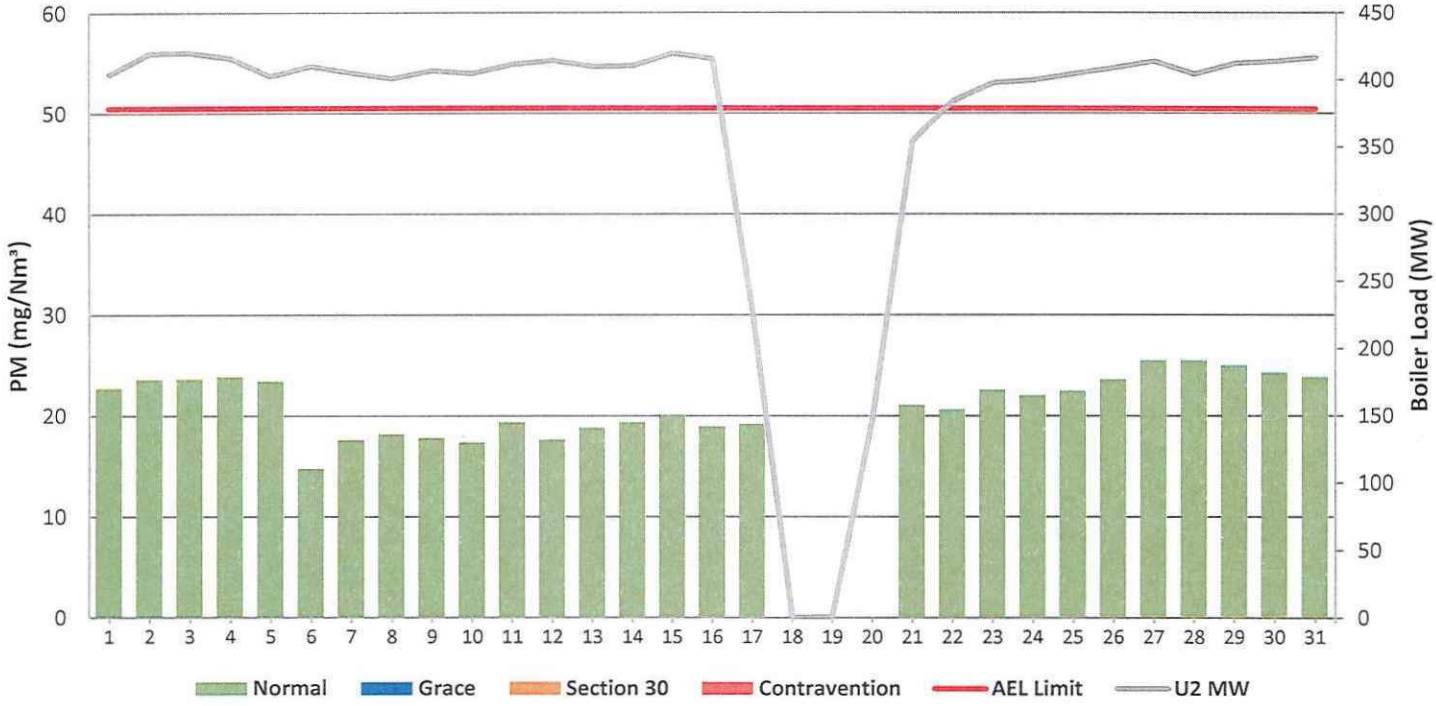

Figure 2: Duvha Unit 4 PM Emissions - March 2026

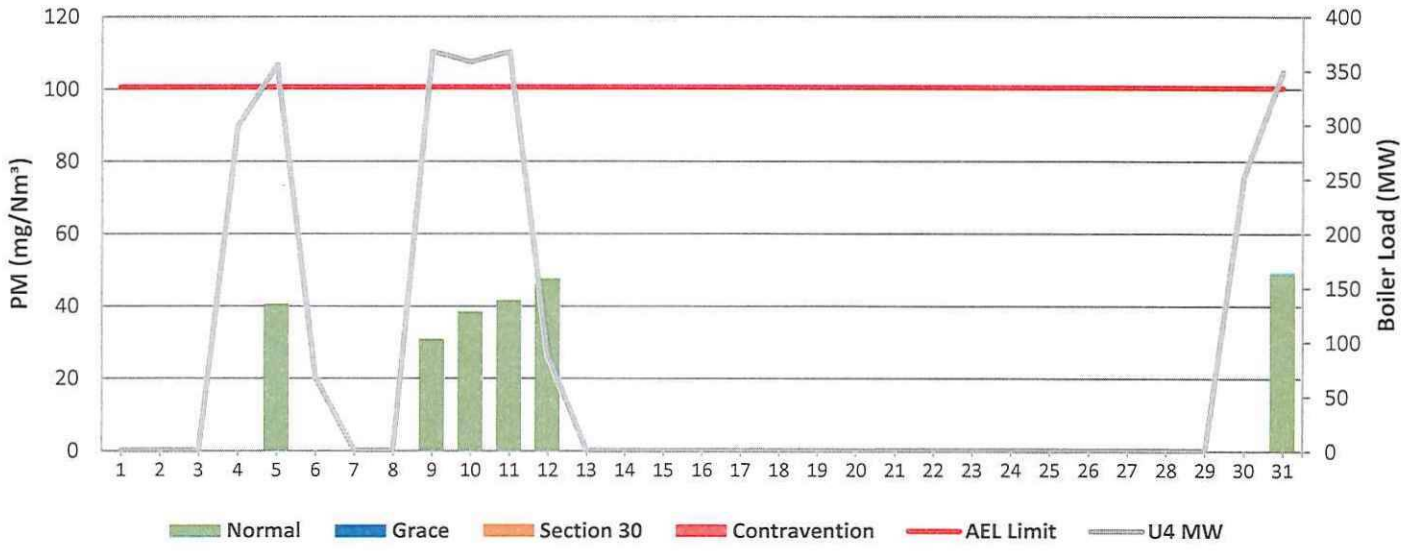

Figure 3: Duvha Unit 5 PM Emissions - March 2026

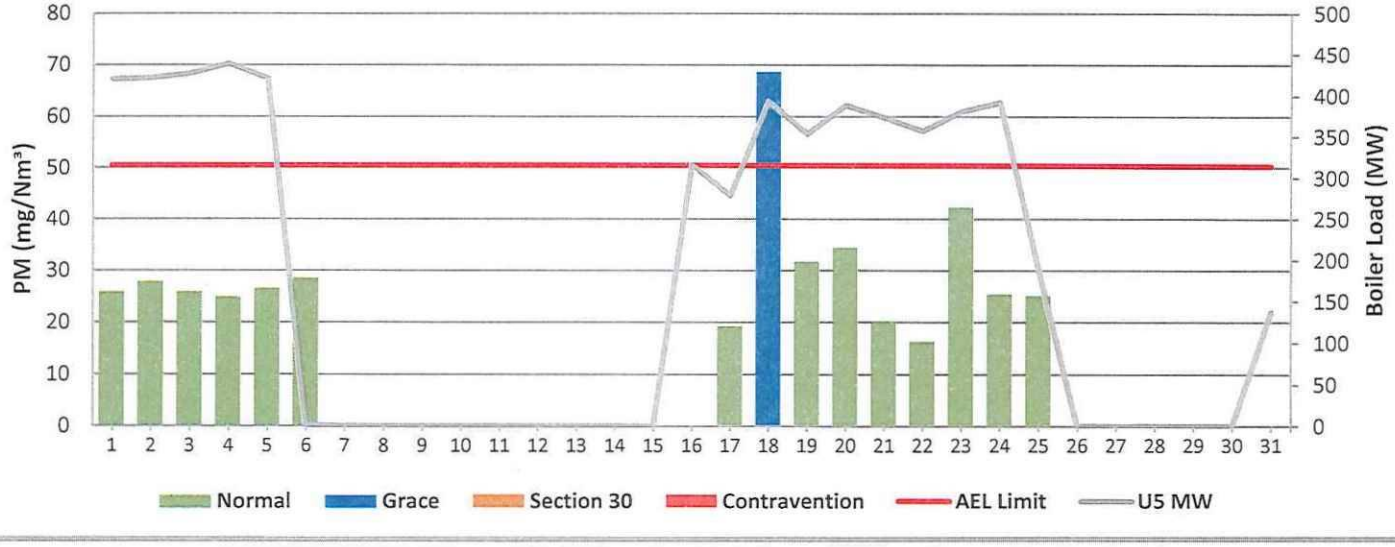

Figure 4: Duvha Unit 6 PM Emissions - March 2026

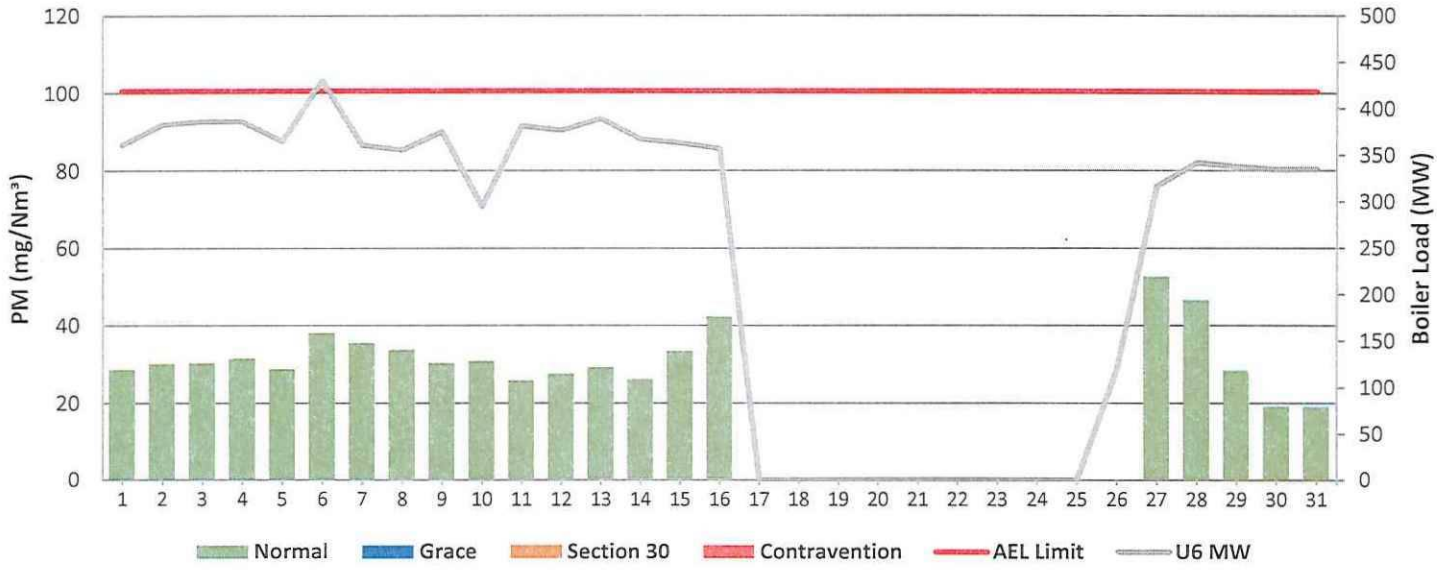

Figure 5: Duvha Unit 2 SO_2 Emissions - March 2026

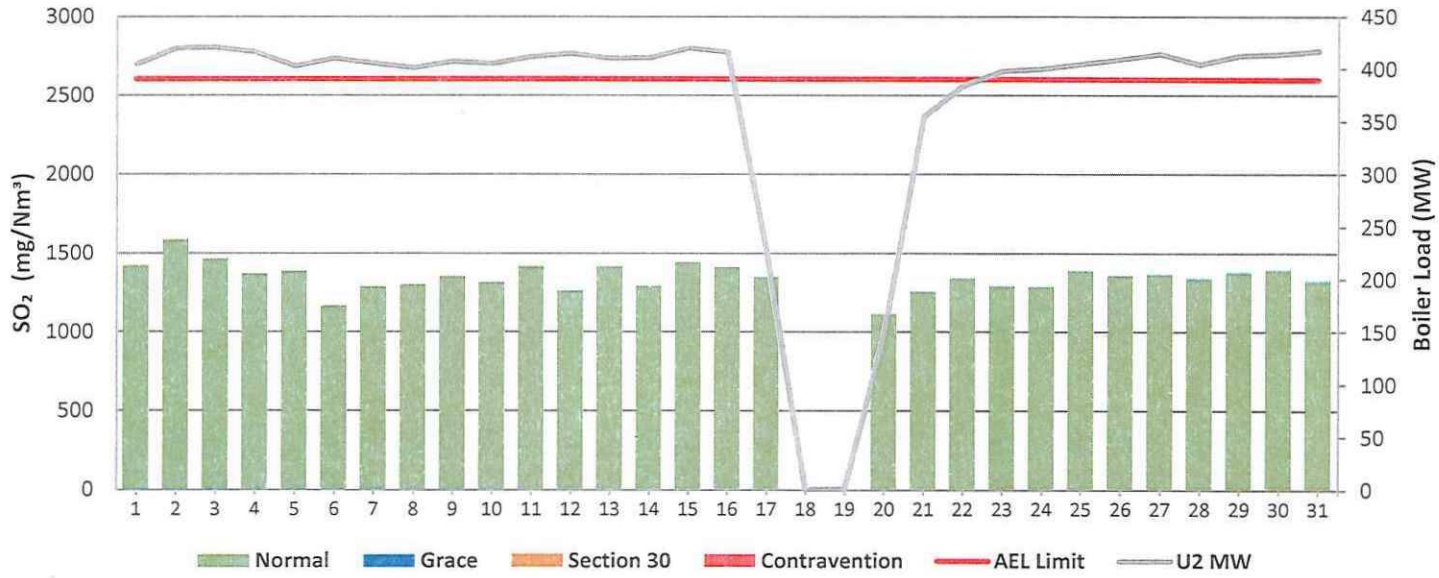

Figure 6: Duvha Unit 4 SO_2 Emissions - March 2026

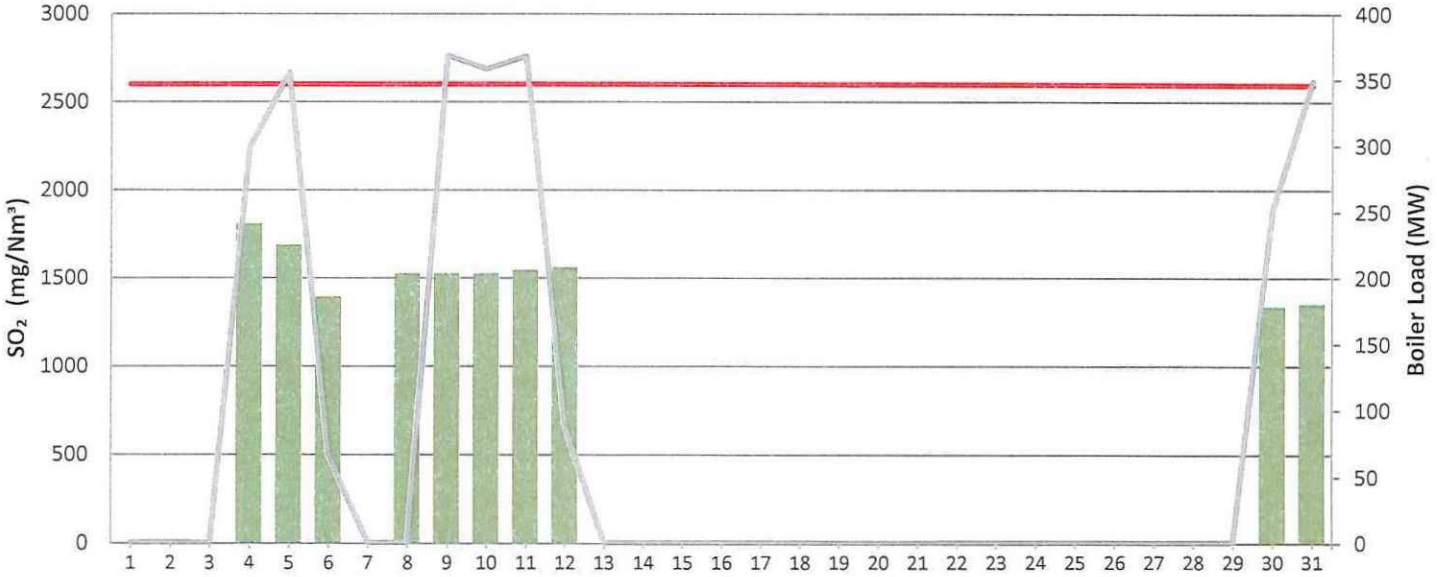

Figure 7: Duvha Unit 5 SO_2 Emissions - March 2026

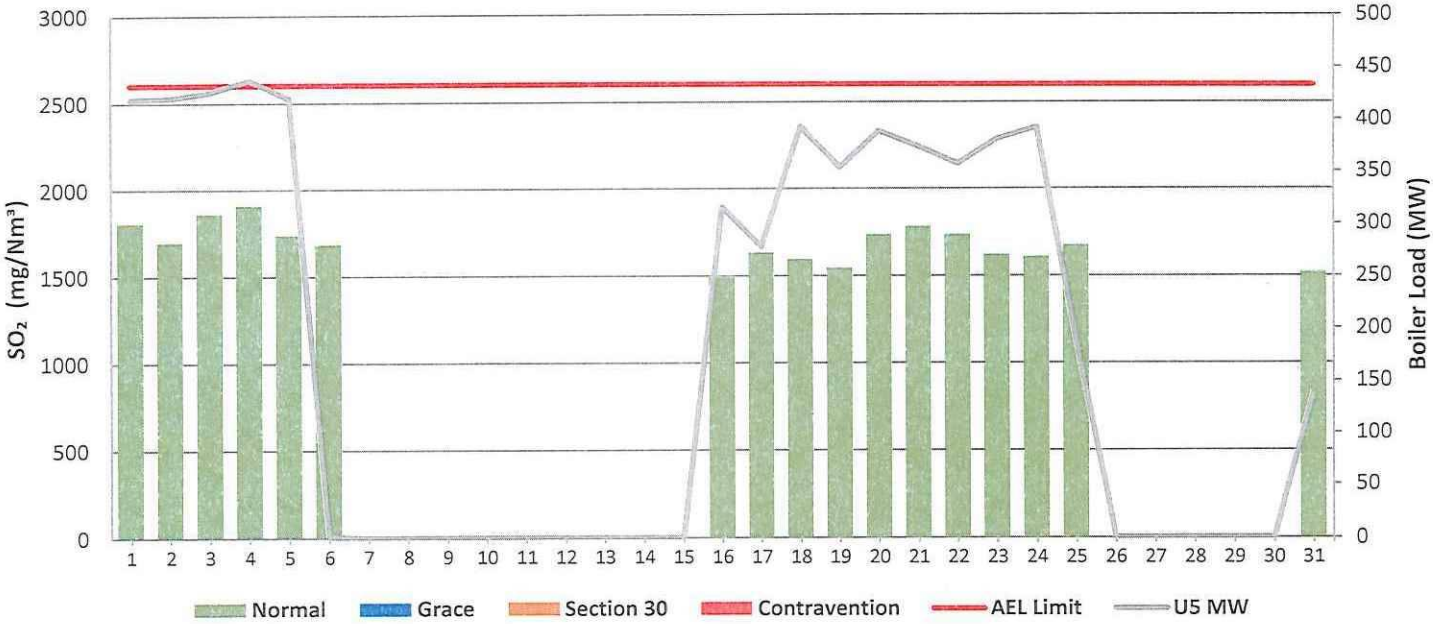

Figure 8: Duvha Unit 6 SO_2 Emissions - March 2026

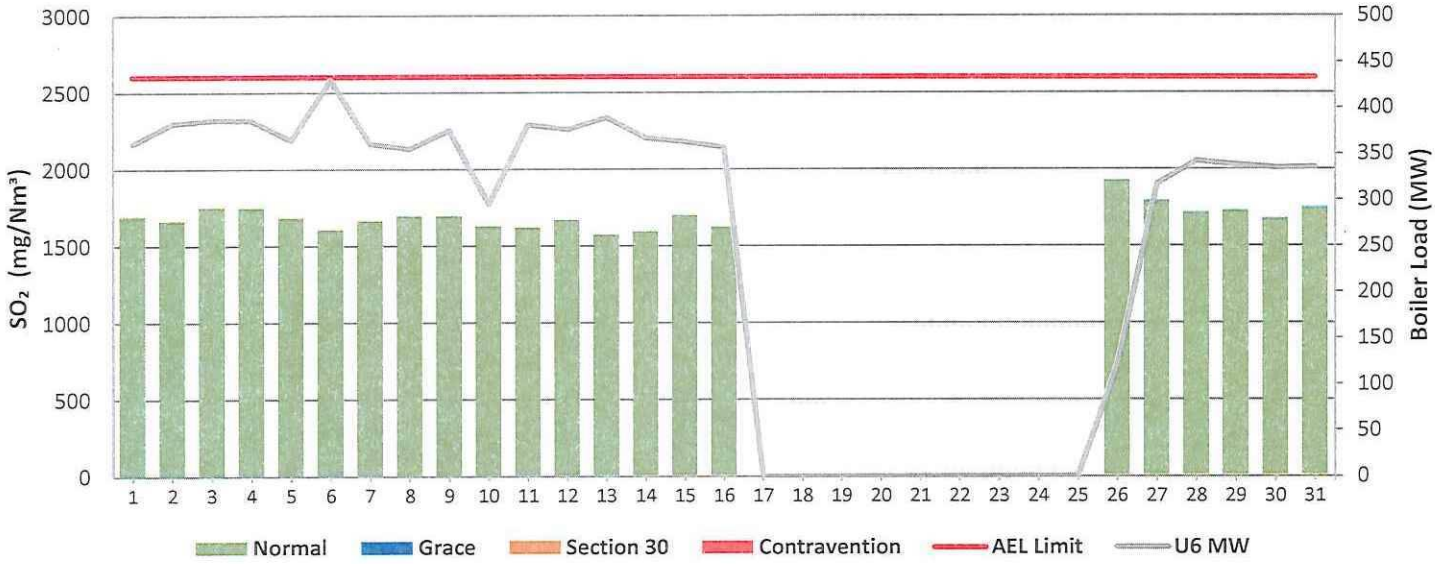

Figure 9: Duvha Unit 2 NO_x Emissions - March 2026

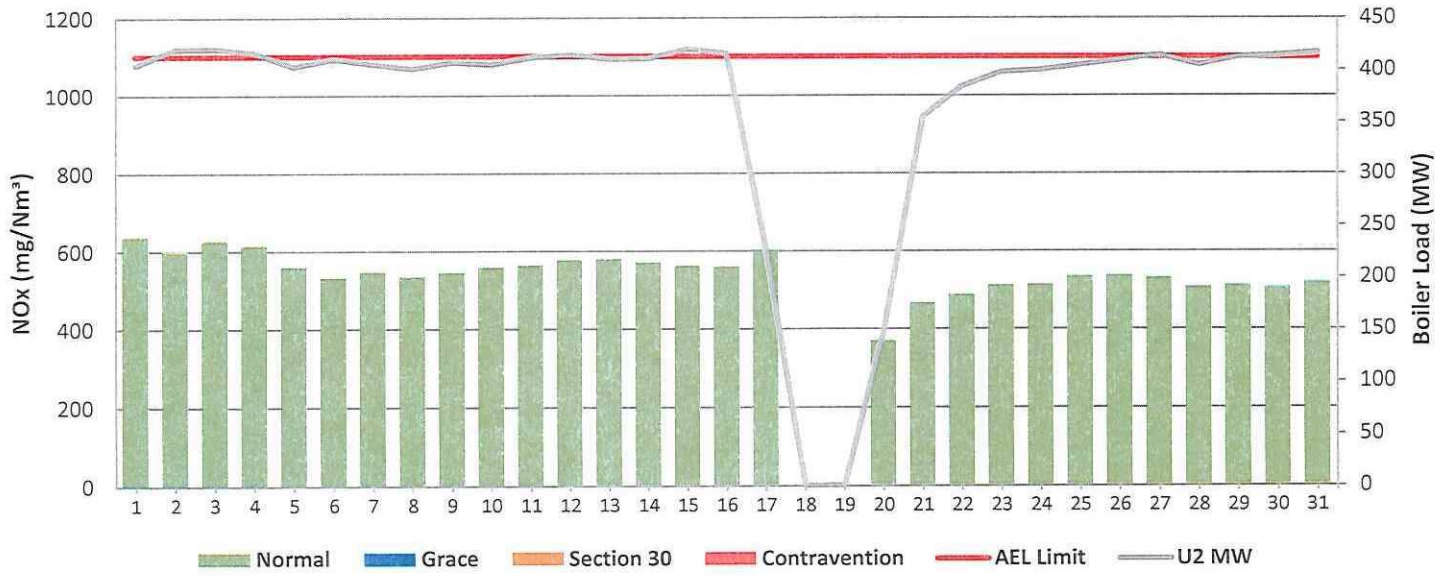

Figure 10: Duvha Unit 4 NO_x Emissions - March 2026

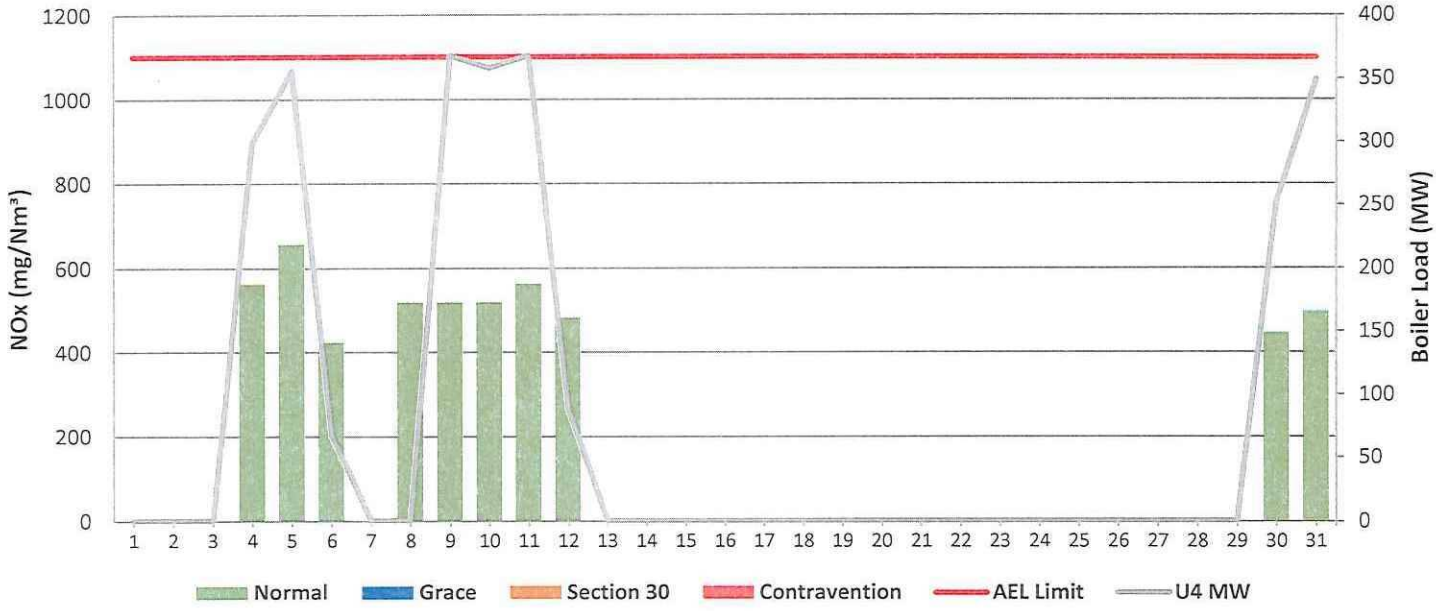

Figure 11: Duvha Unit 5 NO_x Emissions - March 2026

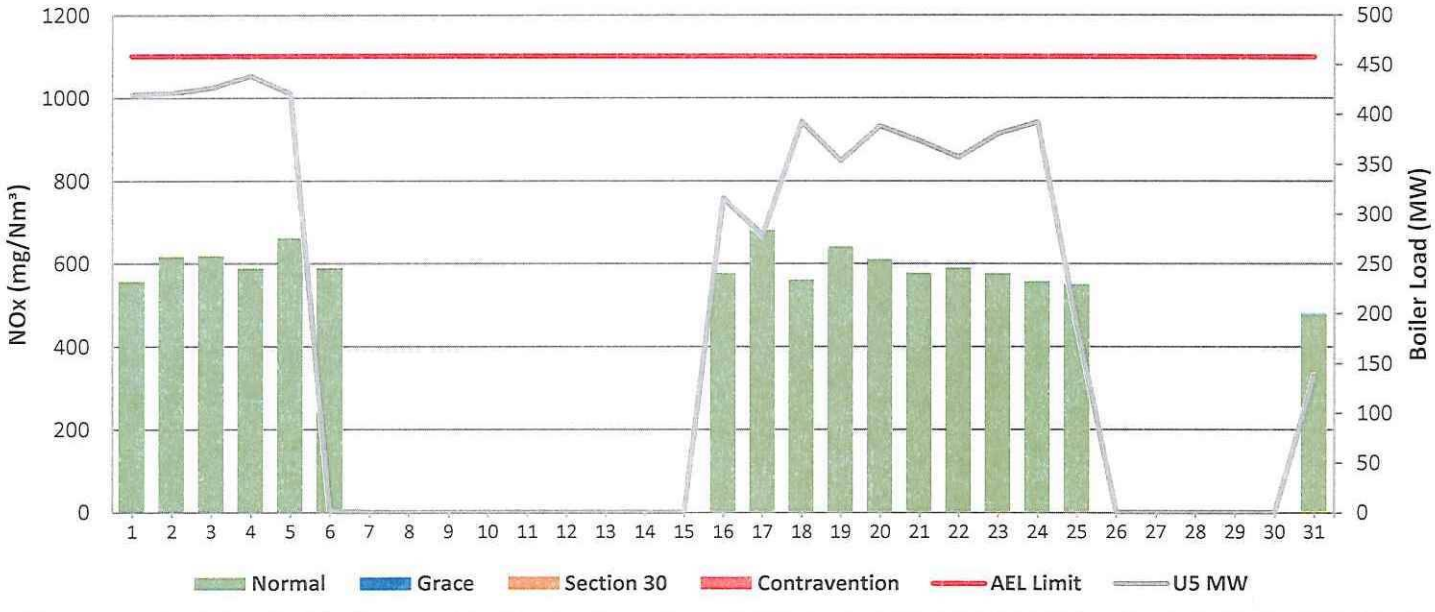

Figure 12: Duvha Unit 6 NO_x Emissions - March 2026

7 Shut-down and light-up information for MARCH 2026

Event Description		Event 1	
Unit 2	Breaker Open (BO)	1:35 pm	2026/03/17
	Draught Group (DG) Shut Down (SD)	6:05 pm	2026/03/17
	BO to DG SD (duration)	00:04:30	DD:HH:MM
	Fires in time	3:25 am	2026/03/20
	Synch. to Grid (or BC)	11:40 am	2026/03/20
	Fires in to BC (duration)	00:08:15	DD:HH:MM
	Emissions below limit from BC (end date)	12:00 am	2026/03/22
	Emissions below limit from BC (duration)	01:12:20	DD:HH:MM

	Event Description	Event 1		Event 2		Event 3	
Unit 4	Breaker Open (BO)	BO previously	BO previously	8:20 pm	2026/03/05	6:05 am	2026/03/12
	Draught Group (DG) Shut Down (SD)	Shut down previously	Shutdown previously	9:45 pm	2026/03/05	12:55 pm	2026/03/12
	BO to DG SD (duration)	n/a	DD:HH:MM	00:01:25	DD:HH:MM	00:06:50	DD:HH:MM
	Fires in time	10:30 pm	2026/03/03	2:05 pm	2026/03/08	1:10 am	2026/03/30
	Synch. to Grid (or BC)	5:05 am	2026/03/04	11:55 pm	2026/03/08	5:55 am	2026/03/30
	Fires in to BC (duration)	00:06:35	DD:HH:MM	00:09:50	DD:HH:MM	00:04:45	DD:HH:MM
	Emissions below limit from BC (end date)	12:00 am	2026/03/05	12:00 am	2026/03/10	12:00 am	2026/03/31
	Emissions below limit from BC (duration)	00:18:55	DD:HH:MM	01:00:05	DD:HH:MM	00:18:05	DD:HH:MM

Event Description		Event 1		Event 2	
Unit 5	Breaker Open (BO)	12:10 am	2026/03/06	11:40 am	2026/03/25
	Draught Group (DG) Shut Down (SD)	1:50 am	2026/03/06	4:45 pm	2026/03/25
	BO to DG SD (duration)	00:01:40	DD:HH:MM	00:05:05	DD:HH:MM
	Fires in time	8:40 pm	2026/03/15	10:10 am	2026/03/31
	Synch. to Grid (or BC)	3:40 am	2026/03/16		
	Fires in to BC (duration)	00:07:00	DD:HH:MM		DD:HH:MM
	Emissions below limit from BC (end date)	2:00 am	2026/03/19	not > limit	not > limit
	Emissions below limit from BC (duration)	02:22:20	DD:HH:MM		DD:HH:MM

Event Description		Event 1	
Unit 6	Breaker Open (BO)	8:45 am	2026/03/16
	Draught Group (DG) Shut Down (SD)	4:00 pm	2026/03/16
	BO to DG SD (duration)	00:07:15	DD:HH:MM
	Fires in time	8:05 am	2026/03/26
	Synch. to Grid (or BC)	5:25 pm	2026/03/26
	Fires in to BC (duration)	00:09:20	DD:HH:MM
	Emissions below limit from BC (end date)	12:00 am	2026/03/28
	Emissions below limit from BC (duration)	01:06:35	DD:HH:MM

8 COMPLAINTS

There were no complaints for this month

Source Code / Name	Root Cause Analysis	Calculation of Impacts / emissions associated with the incident	Dispersion modeling of pollutants where applicable	Measures implemented to prevent reoccurrence

9 GENERAL

Exceedances

Particulate Matter

Unit 5

18/03/2026

During the first 24 hours following the return to service of the unit on 17 March 2026, particulate emissions were elevated due to start-up conditions, as the SO_3 plant requires approximately eight (8) hours or more to achieve the necessary temperature, pressure, and operating conditions for effective injection at 18 ppm, thereby optimising electrostatic precipitator field performance and full particulate matter abatement efficiency

Monitor Reliability

Additionally, the SOX and NOX data monitor reliability was below 80% The reasons are attached on annexure 1

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission report which will be sent to your office

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10 S30 Incidents

There were no section 30 incidents

Boiler Plant Engineering Manager	28/04/2026 Date	Environmental Manager	2026/04/29 Date
Engineering Manager	2026-04-28 Date		

Compiled by	Environmental Officer	
For	Nkangala District Municipality	Air Quality Officer
Copies	Generation Environmental Management	D Herbst B Mccourt
	Generation Compliance Management	R Rampiar
	Generation Asset Management	E Patel
	Duvha Power Station	Engineering Manager Operating Manager Maintenance Manager Production Manager Boiler Engineering Manager System Engineer Environmental Manager