

## HENDRINA POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License: 17/4/AEL/MP312/11/16



### 1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate	Consumption Rate Mar-2026
	Coal	Tons	820 000	103 124
Fuel Oil	Tons	3 200	1057.1	

Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Mar-2026
	Energy	GWh	1400.952	163.9
Ash	Tons	290 000	26 183.2	
RE Ash	kg/MWh	<i>not specified</i>	0.08	

### 2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	18-22 (MJ/kg)	21.5
Sulphur Content	%	0.6 to < 1 (%)	0.8
Ash Content	%	20 to < 35 (%)	25.4

### 3 EMISSION LIMITS (mg/Nm<sup>3</sup>)

Associated Unit/Stack	Daily Limit		
	PM	SO <sub>2</sub>	NO <sub>x</sub>
North	50	3200	1100
South	50	3200	1100

### 4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	FFP Efficiency
North	Fabric Filter Plant (FFP)	Off-line
South	Fabric Filter Plant (FFP)	100%

Note: The FFP does not have a bypass mode; therefore, it operates at 100% utilisation.

### 5 DATA RELIABILITY (%)

Associated Unit/Stack	PM	SO <sub>2</sub>	NO	O <sub>2</sub>
North	Exempt	93.1	0.0	0.0
South	100.0	93.1		99.1

Note: NO<sub>x</sub> emissions are measured as NO in PPM. The final NO<sub>x</sub> value is expressed as total NO<sub>2</sub> equivalent.

### 6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for March 2026

Associated Unit/Stack	PM (tons)	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)
Unit 1	Off	Off	Off
Unit 2	Off	Off	Off
Unit 3	Off	Off	Off
Unit 4	Exempt	0	0
Unit 5	Off	Off	Off
Unit 6	2.4	307	
Unit 7	8.2	763	
Unit 8	Off	Off	Off
Unit 9	Off	Off	Off
Unit 10	2.6	298	
<b>SUM</b>	<b>13.15</b>	<b>1 367</b>	

South Stack NO<sub>x</sub> Monitor reliability value will be input when the error under investigation has been resolved. This report shall be updated with a verified value and submitted to the Licensing Authority.

Final figures for the South Stack NO<sub>x</sub> under investigation because of a suspected error.

Table 6 2 PM AEL Daily Compliance - March 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
North	Exempt	Exempt	Exempt	Exempt	Exempt	Exempt
South	29	0	0	0	0	14.6
SUM	29	0	0	0	0	

Table 6 3 SO<sub>2</sub> AEL Daily Compliance - March 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
North	0	0	0	0	0	
South	30	0	0	0	0	1.3180
SUM	30	0	0	0	0	

Table 6.4: NO<sub>x</sub> AEL Daily Compliance - March 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm <sup>3</sup> )
North	0	0	0	0	0	
South						
SUM	0	0	0	0	0	

South Stack NO<sub>x</sub> error under investigation.

Table 6.5: Legend Description

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

Figure 1: Hendrina North Stack PM Emissions - March 2026

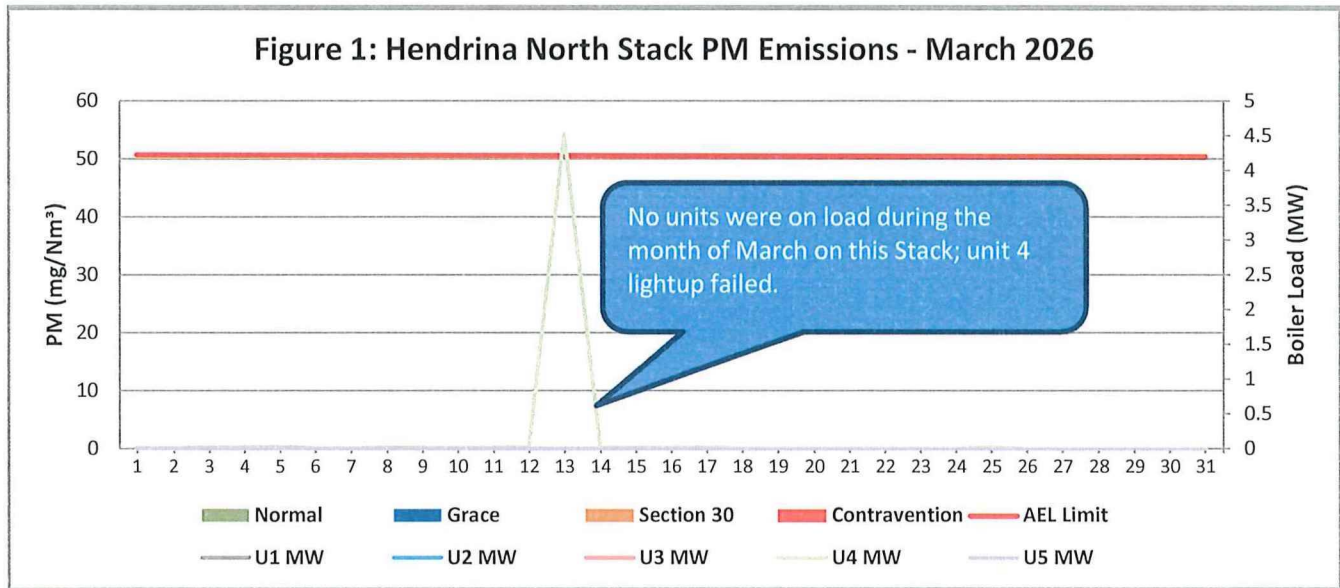


Figure 2: Hendrina South Stack PM Emissions - March 2026

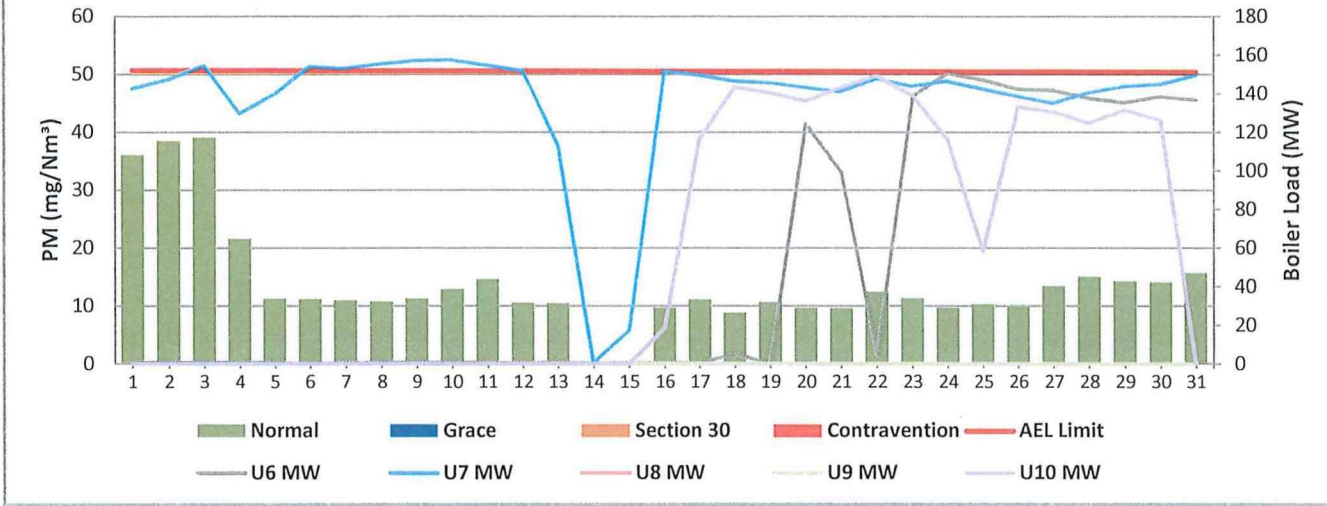


Figure 3: Hendrina North Stack SO<sub>2</sub> Emissions - March 2026

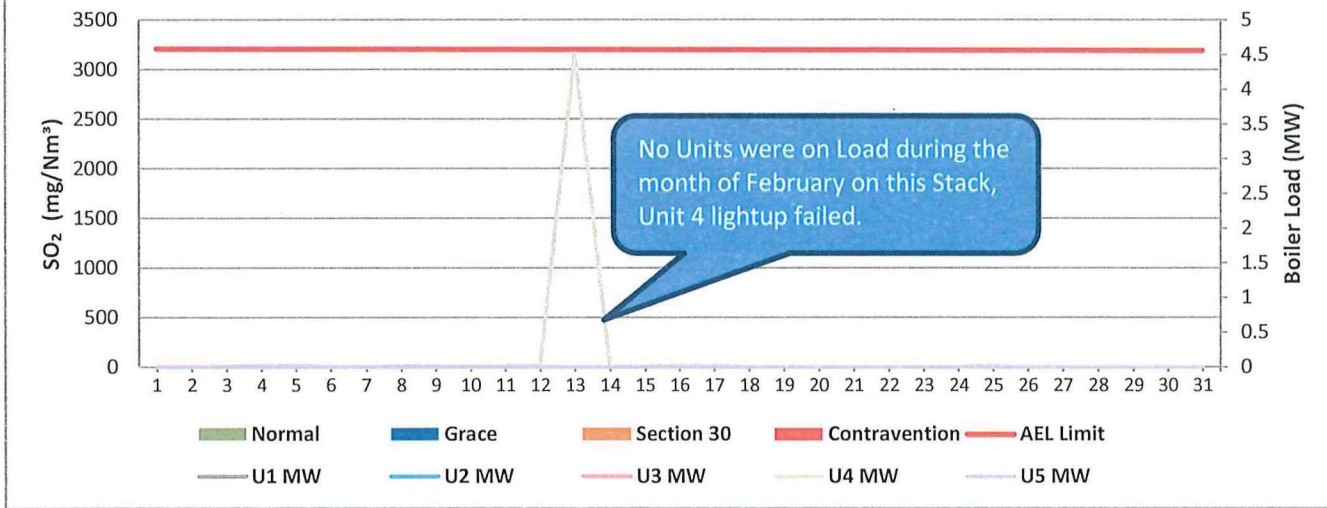


Figure 4: Hendrina South Stack SO<sub>2</sub> Emissions - March 2026

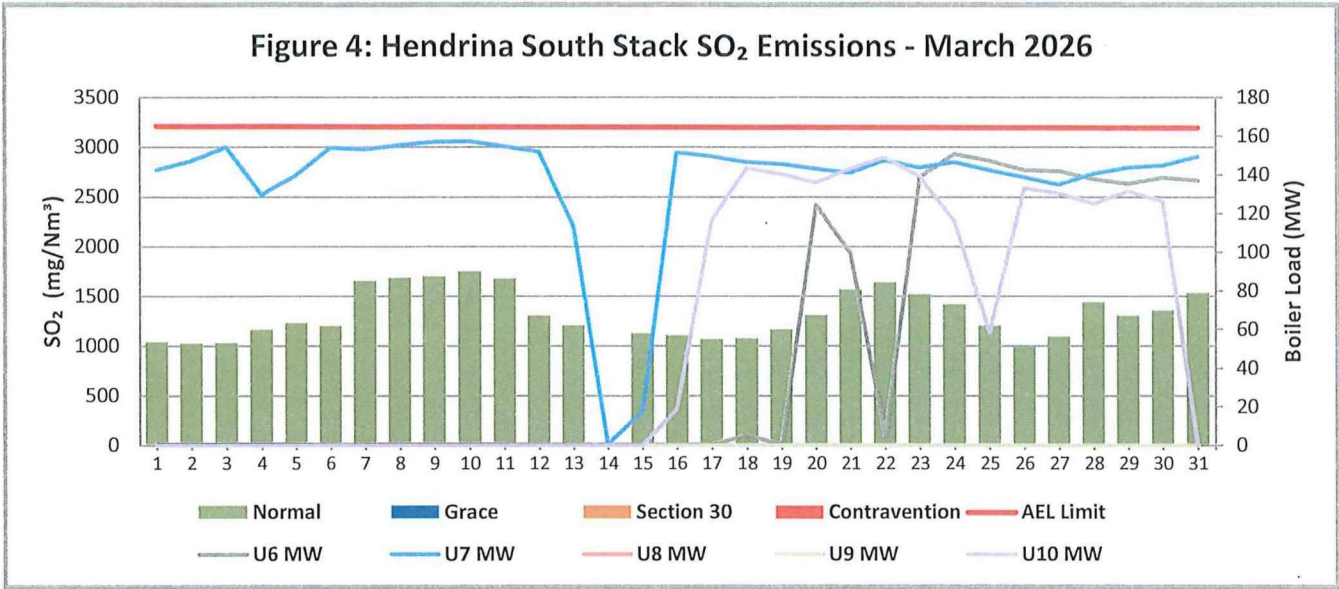
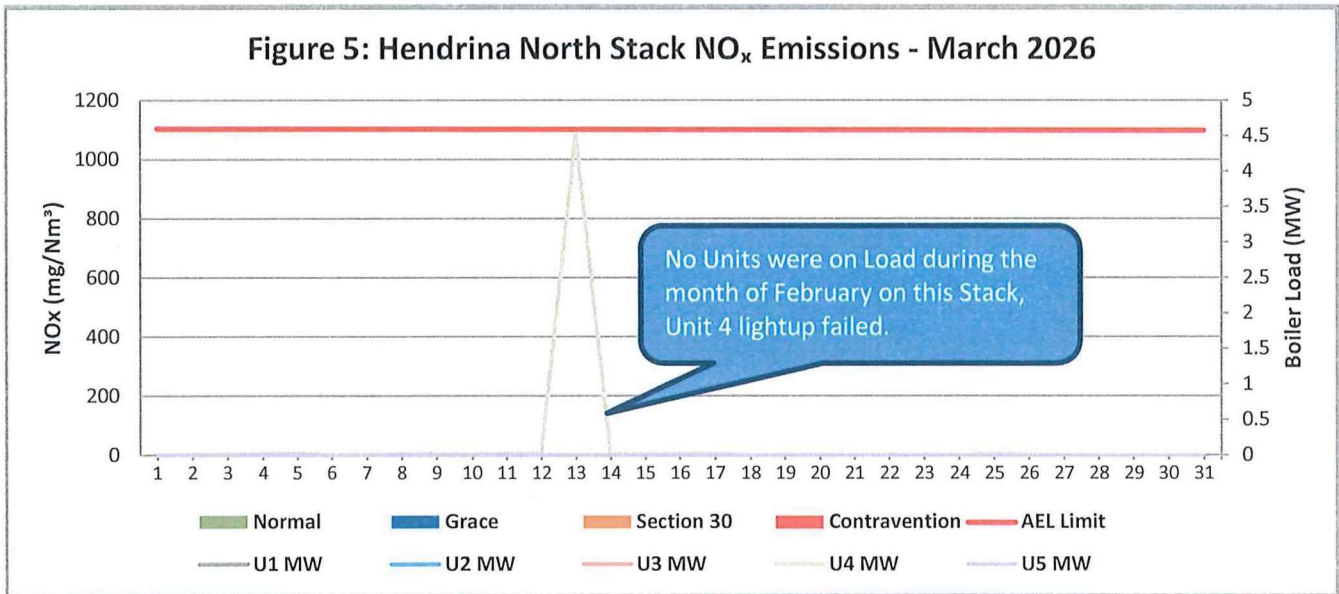
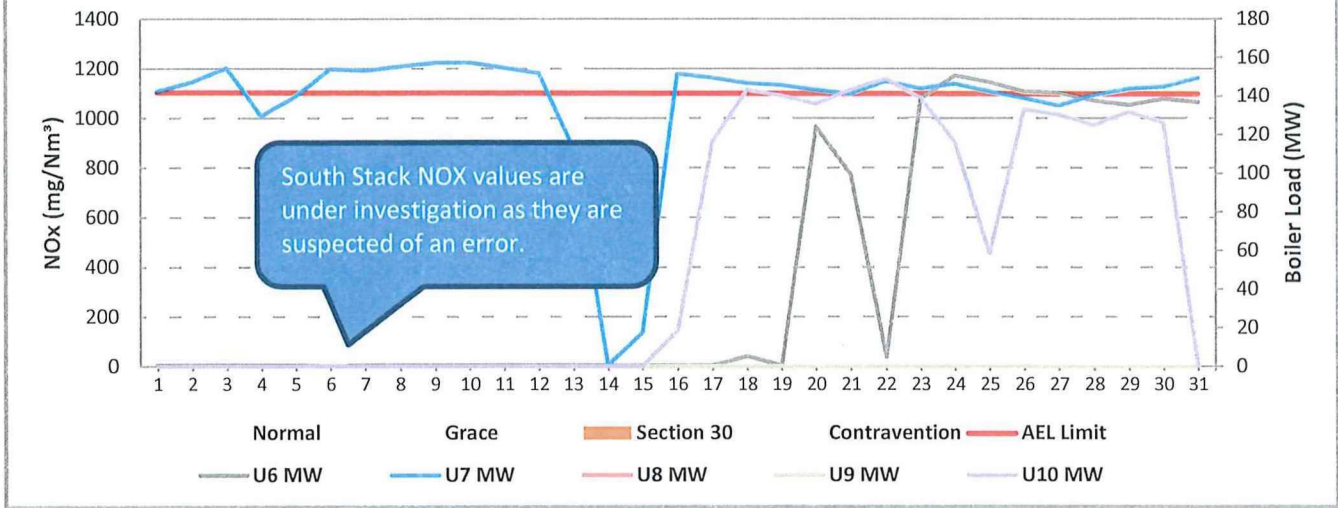


Figure 5: Hendrina North Stack NO<sub>x</sub> Emissions - March 2026



**Figure 6: Hendrina South Stack NO<sub>x</sub> Emissions - March 2026**



**7 COMPLAINTS**

There were no complaints for this month

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

**8 GENERAL**

Units 2, 4, and 5 on the North Stack were offload during the month of March 2026. The South Stack is currently using a spot test curve because the units do not meet the minimum operating conditions for a full correlations test (3200 operating hours for FFP bags per unit, and 2 units should be on load at the time of the test). The reports will be updated once full correlations have been implemented.

Surrogate values measured from QAL2 25/R3193-A3 were used to report the values for CO<sub>2</sub>, CO, and H<sub>2</sub>O because of a faulty GM35 probe.

South Stack NO<sub>x</sub> monitor readings are under investigation because of suspected erroneous data. Once the investigation is concluded, the value will be stated and the report will be resubmitted. Additional information demonstrating compliance as per the annual reporting requirements will be submitted to the Licensing Authority within the stipulated timeframe.

**9 Complaints and S30 Incidents Register**

No Section 30 or Complaints were reported for the Month of March 2026

A.Boja

18 May 2026

Maoto

2026/05/19

Compiled: Environmental Officer      Date  
A. Boja

Checked by: System  
Engineer Boiler/ FFP  
Moyahabo Cetlyff Maoto

G. Kgwatlhe

Validated by Manager: Boiler Engineering Manager  
G. Kgwatlhe

L. Ntila

Supported by: Environmental Manager  
L. Ntila

T. Lekalaka

28/05/2026

Authorised by: GM      Date  
T. Lekalaka

Compiled by: Boiler Engineering Department

FFP SE/ Environmental Officer

For      Nkangala District Municipality

Air Quality Officer

Copies      Eskom Environmental Management

D Herbst  
B Mccourt

Group Technology Engineering

R Rampiar  
E Patel

Hendrina Power Station:

Engineering Manager  
Operating Manager  
Maintenance Manager  
Unit Production Manager  
Boiler Engineering Manager  
System Engineer: Boiler Engineering  
Environmental Officer  
C & I Engineering Manager  
Production Manager  
Environmental Manager  
PSM