

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 Dec-2025
	Coal	Tons	820 000	148 607
Fuel Oil	Tons	3 200	972.590	

Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Dec-2025
	Energy	GWh	1400.952	190.366
	Ash	Tons	290 000	31 697.902
	RE Ash	kg/MWh	not specified	0.05

Note: Max energy rate = AEL capacity [1,883MW] × 24 hrs × days in month ÷ 1,000 (to convert to GWh).

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	18-22 (MJ/kg)	23.3
Sulphur Content	%	0.6 to < 1 (%)	0.8
Ash Content	%	20 to < 35 (%)	21.3

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	Daily Limit		
	PM	SO ₂	NO _x
North	50	3200	1100
South	50	3200	1100

4 ABATEMENT TECHNOLOGY (%)

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

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

5 DATA RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO	O ₂
North	100.0	99.9	90.1	91.1
South	100.0	99.9		92.4

Note: NO_x emissions are measured as NO in PPM. The total NO_x value is expressed as total NO₂ equivalent.

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for December 2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	Off	Off	Off
Unit 2	Off	Off	Off
Unit 3	Off	Off	Off
Unit 4	0.9	318	244
Unit 5	Exempt	2	1
Unit 6	3.1	831	
Unit 7	3.7	669	
Unit 8	Off	Off	Off
Unit 9	Off	Off	Off
Unit 10	0.9	211	
SUM	8.66	2 031	244

South Stack NO_x Monitor reliability value has been removed because of a suspected error which is still under investigation. This report will be updated with a verified value after the investigation is concluded.

Final figures for the South Stack under investigation because of a suspected error

Table 6 2 PM AEL Daily Compliance - December 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	12	0	0	0	0	4 9
South	30	0	0	0	0	7 9
SUM	42	0	0	0	0	

Table 6 3 SO₂ AEL Daily Compliance - December 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	15	0	0	0	0	1 600 4
South	30	0	0	0	0	1 520 3
SUM	45	0	0	0	0	

Table 6.4: NO_x AEL Daily Compliance - December 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	15	0	0	0	0	668.3
South						
SUM	15	0	0	0	0	

NO_x readings are suspected of an error and still 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 - December 2025

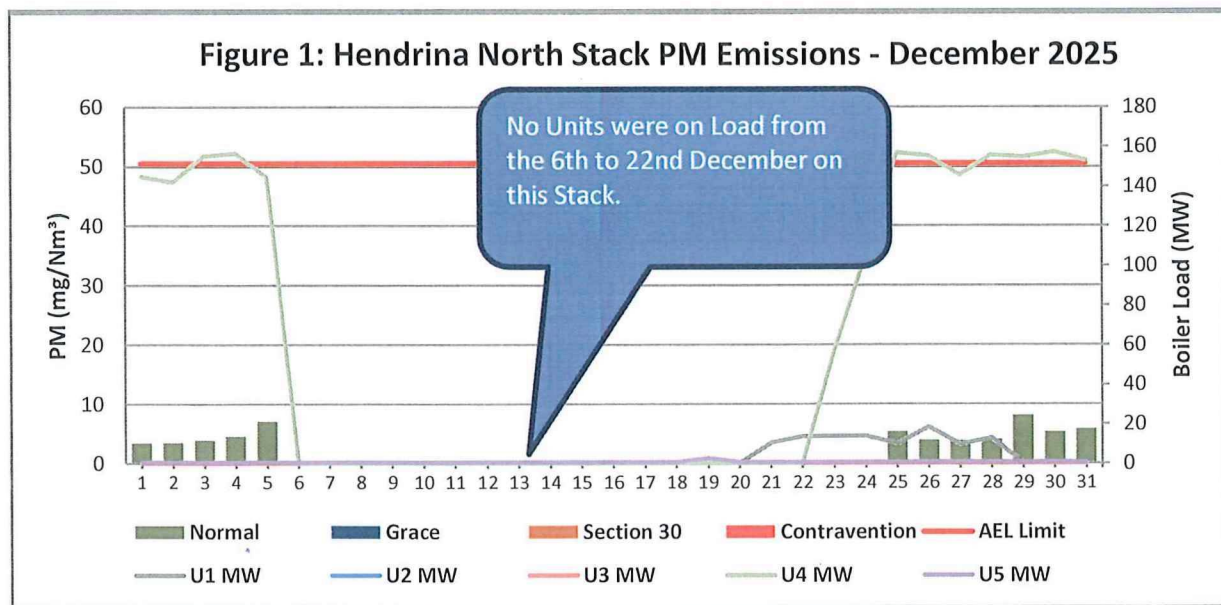


Figure 2: Hendrina South Stack PM Emissions - December 2025

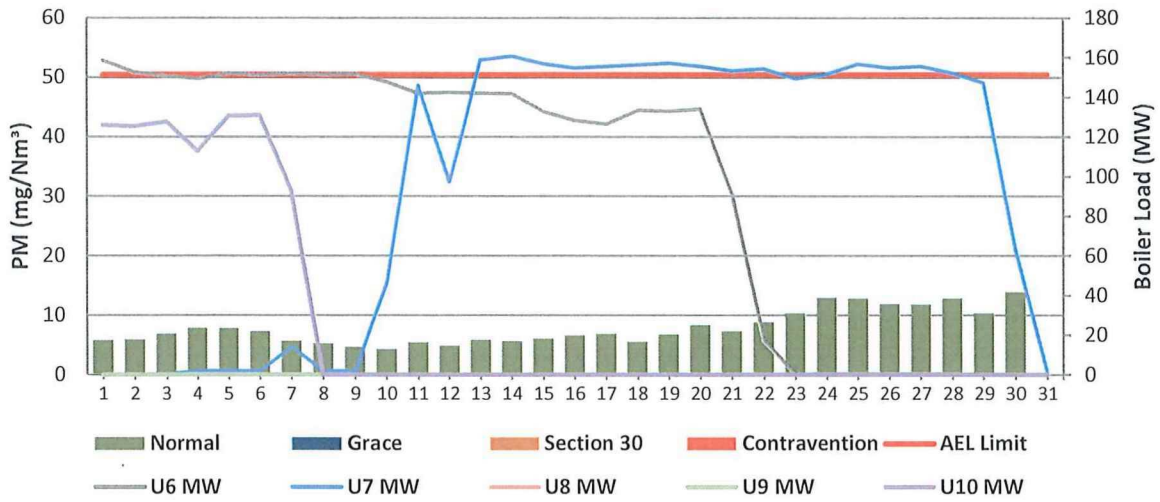


Figure 3: Hendrina North Stack SO₂ Emissions - December 2025

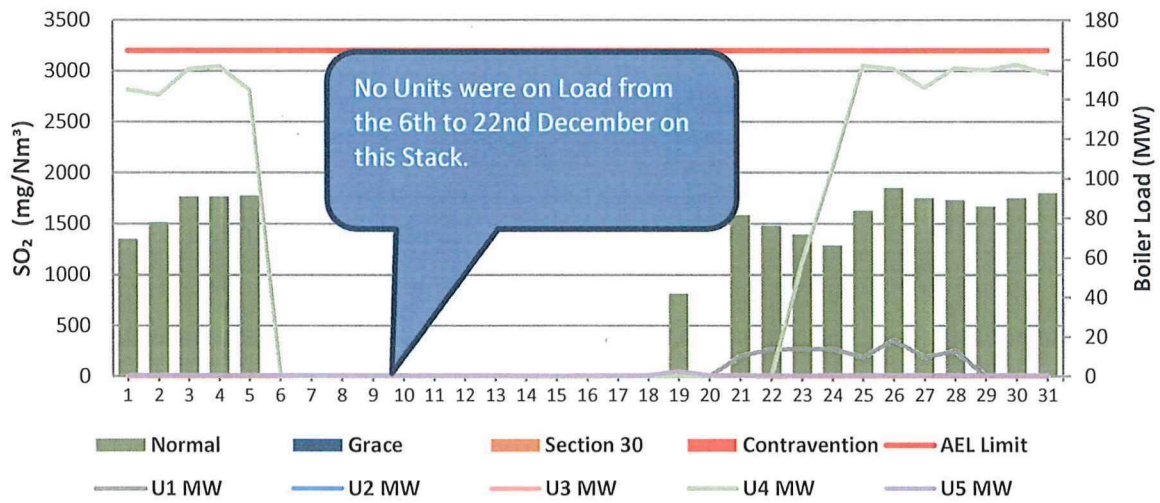


Figure 4: Hendrina South Stack SO₂ Emissions - December 2025

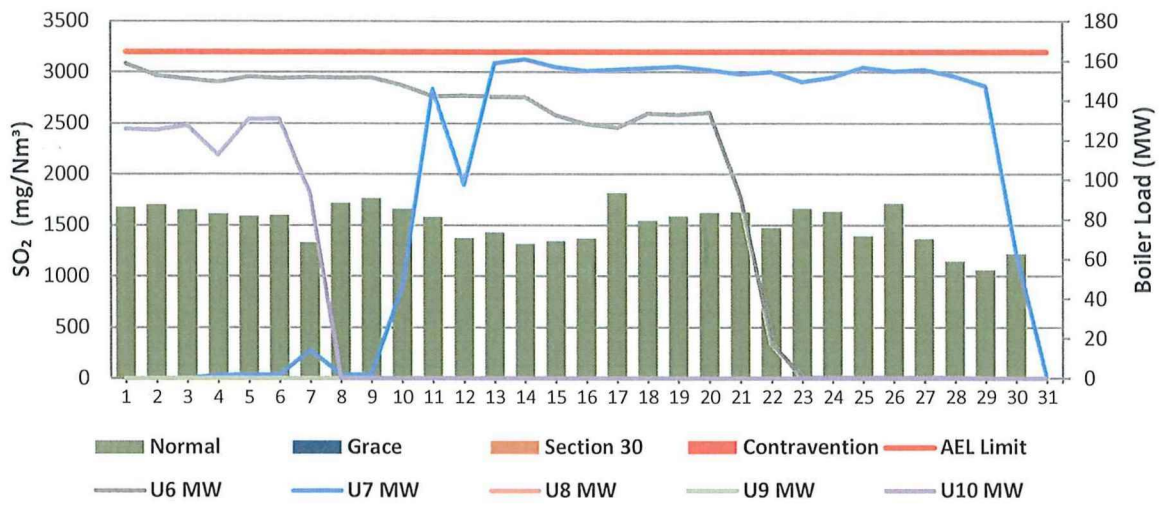


Figure 5: Hendrina North Stack NO_x Emissions - December 2025

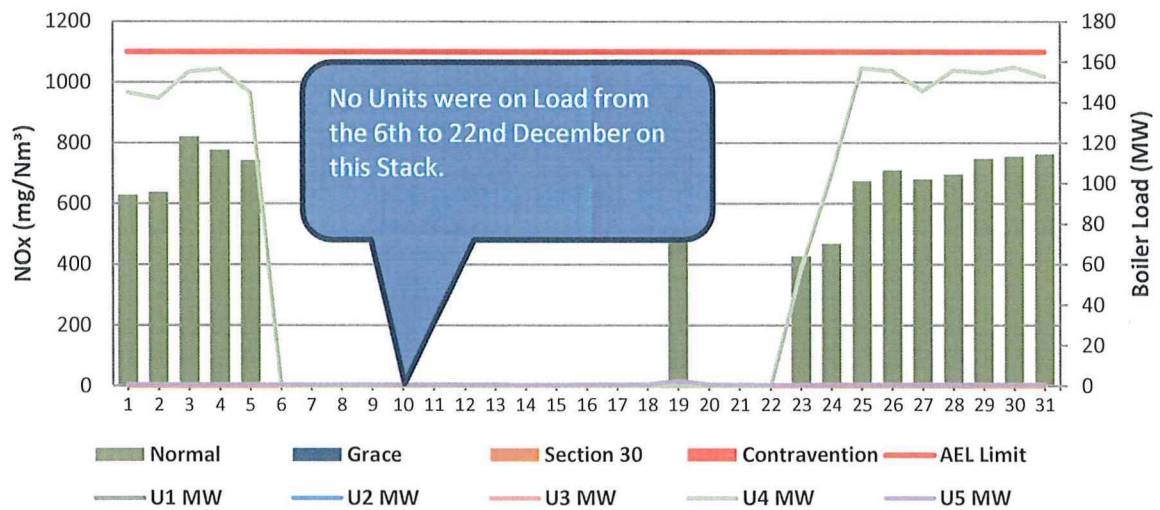
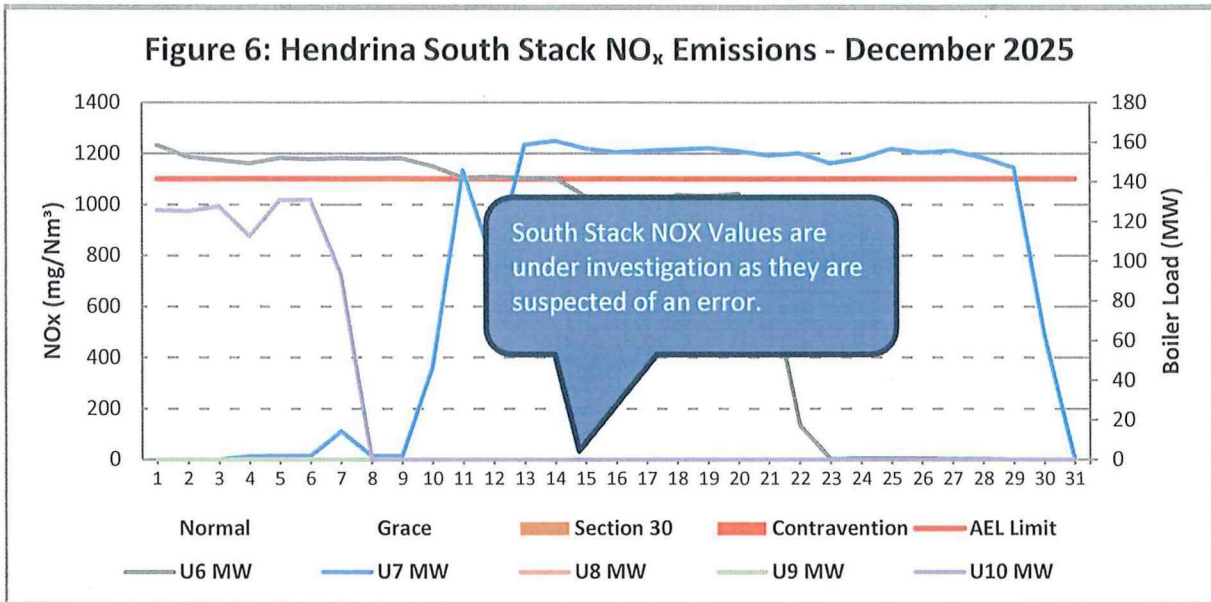


Figure 6: Hendrina South Stack NO_x Emissions - December 2025



7 COMPLAINTS

There were no complaints for this months

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

8 GENERAL

Units 2 and 5 on the North Stack were offload during the month of December 2025.

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 valid correlations have been implemented. Additional information demonstarting compliance as per the annual reporting requirements will be submitted to the authorities within the stipulated timeframe.

9 Complaints and S30 Incidents Register

No Section 30 or Complaints were reported for the Month of December 2025

A. Boja

17 April 2026

Compiled: Environmental Officer
A. Boja

Date

T. L

23/04/2026

Authorised by: GM
T. Lekalakala

Date

Compiled by: Boiler Engineering Department

For: Nkangala District Municipality
Copies. Eskom Environmental Management

Group Technology Engineering

Hendrina Power Station.

Moyahabo Cetlyff Maoto

20 April 2026

Checked by: System
Engineer Boiler/ FFP
Moyahabo Cetlyff Maoto

pp G. Kgwatlhe 2026/04/20

Validated
by Boiler Engineering
Manager

L. Ntila G. Kgwatlhe
22/04/2026

Supported
by: Environmental Manager
L. Ntila

FFP SE/ Environmental Officer

Air Quality Officer

D Herbst

B Mccourt

R Rampiar

E Patel

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