

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 Oct-2025
	Coal	Tons	820 000	116 513
	Fuel Oil	Tons	3 200	946.05

Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Oct-2025
	Energy	GWh	1400.952	195.6
	Ash	Tons	290 000	25 761
	RE Ash	kg/MWh	not specified	0.07

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 (%)	0.7
Ash Content	%	20 to < 35 (%)	22.1

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	100.0	84.6	97.6
South	100.0	100.0		98.8

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 October 2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	Off	Off	Off
Unit 2	Exempt	28	11
Unit 3	Off	Off	Off
Unit 4	3.4	304	189
Unit 5	3.0	271	165
Unit 6	5.9	1 341	
Unit 7	0.5	342	
Unit 8	Off	Off	Off
Unit 9	Off	Off	Off
Unit 10	Off	Off	Off
SUM	12.96	2 286	352

South Stack NO_x Monitor reliability value is not reported because of a suspected error which is still under investigation. This report will be updated with a verified value after the investigation is concluded.

Values for the South Stack NO_x (Units 6, 7, and 10) will be submitted one the investigation is concluded as indicated on item 5 above.

Table 6 2 PM AEL Daily Compliance - October 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
North	10	0	0	0	0	21.7
South	31	0	0	0	0	7.2
SUM	41	0	0	0	0	

Table 6 3 SO₂ AEL Daily Compliance - October 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm³)
North	14	0	0	0	0	1.7200
South	31	0	0	0	0	1.7425
SUM	45	0	0	0	0	

Table 6.4: NO_x AEL Daily Compliance - October 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	14	0	0	0	0	698.5
South						
SUM	14	0	0	0	0	

South Stack NO_x readings are suspected of an error and still under

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 - October 2025

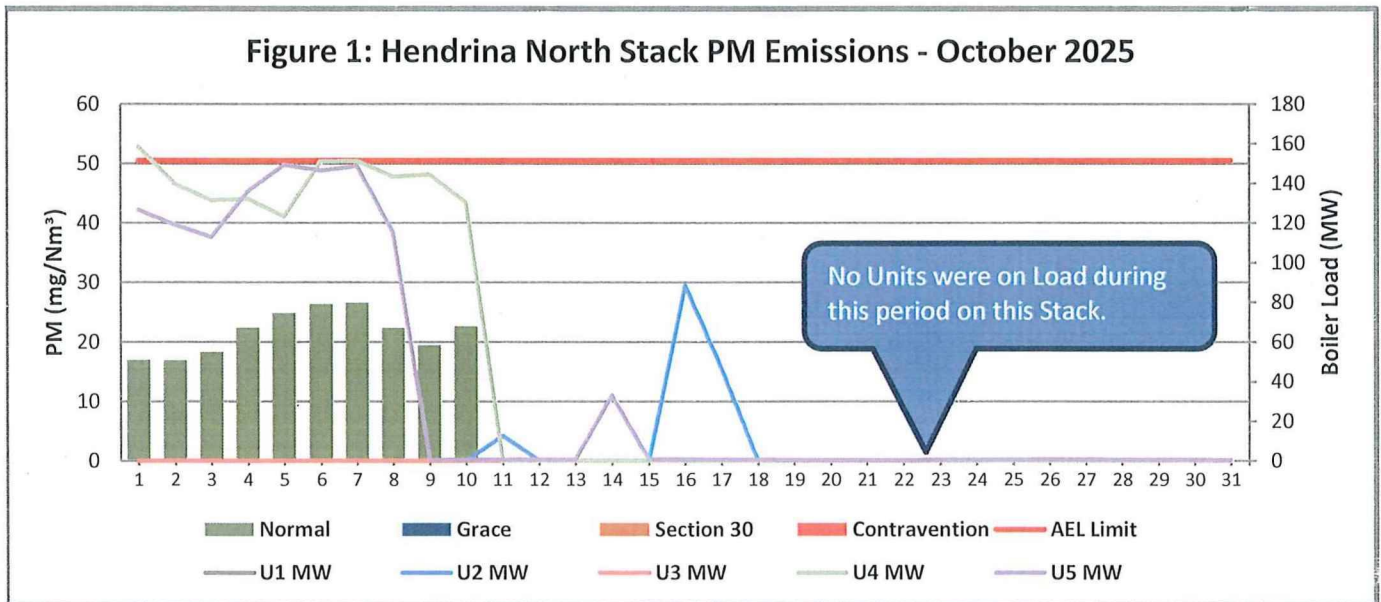


Figure 2: Hendrina South Stack PM Emissions - October 2025

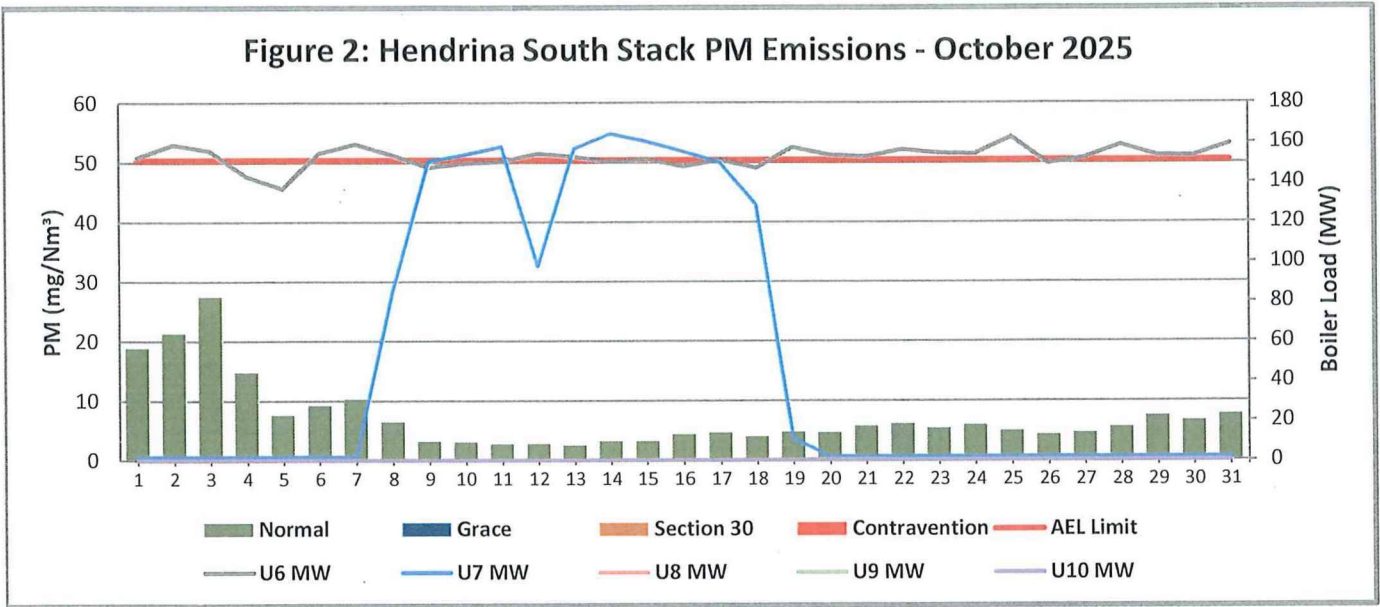


Figure 3: Hendrina North Stack SO₂ Emissions - October 2025

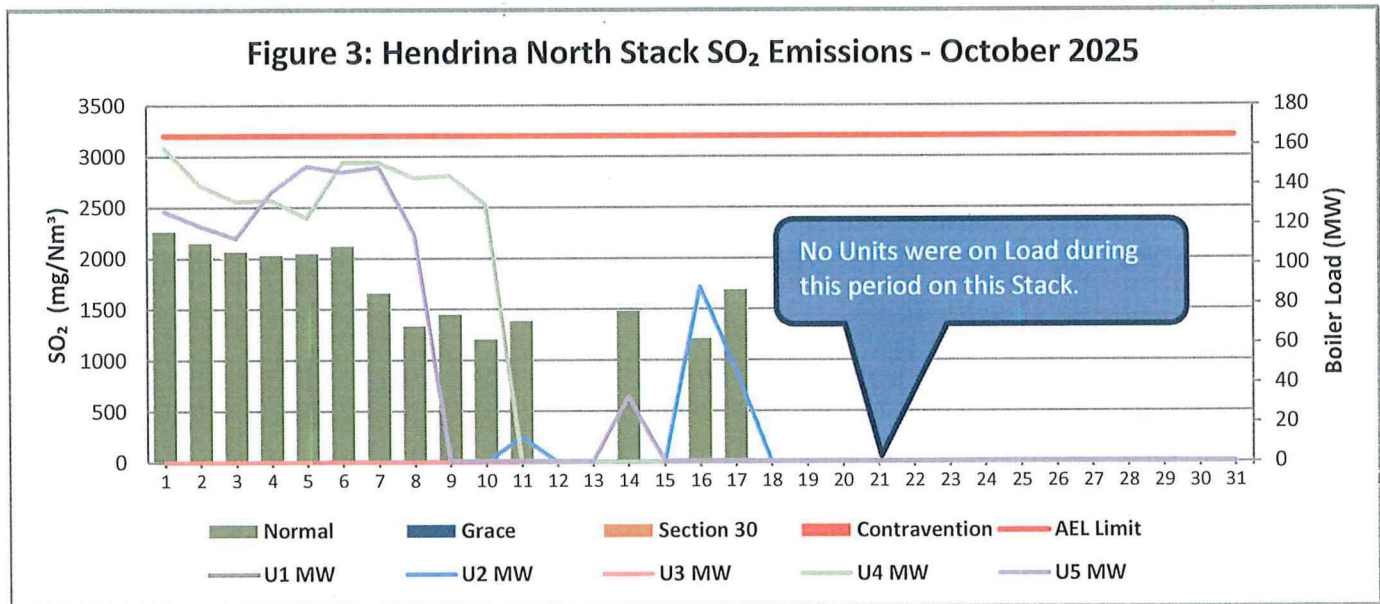


Figure 4: Hendrina South Stack SO₂ Emissions - October 2025

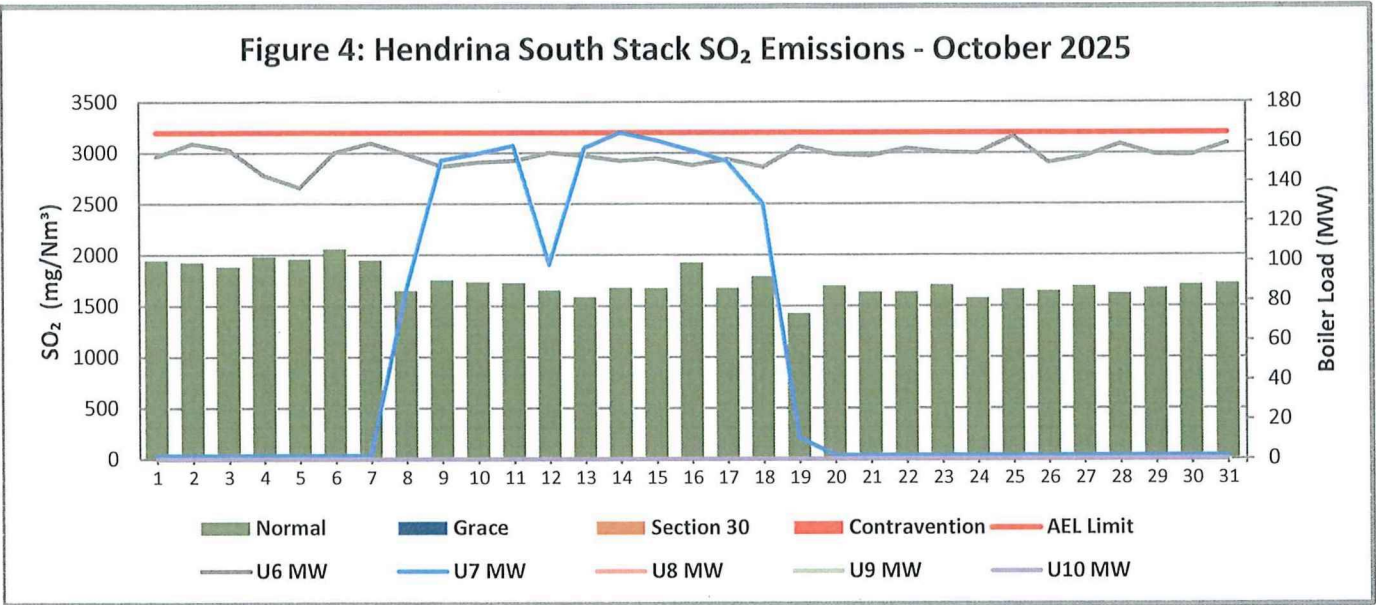


Figure 5: Hendrina North Stack NO_x Emissions - October 2025

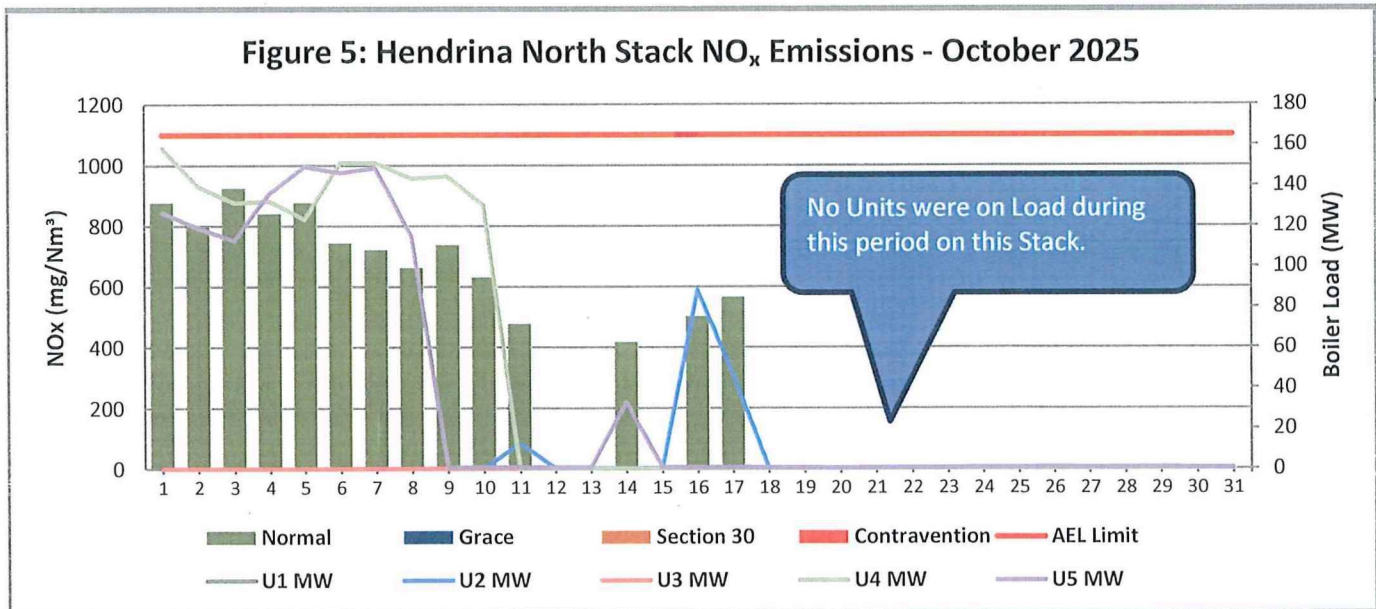
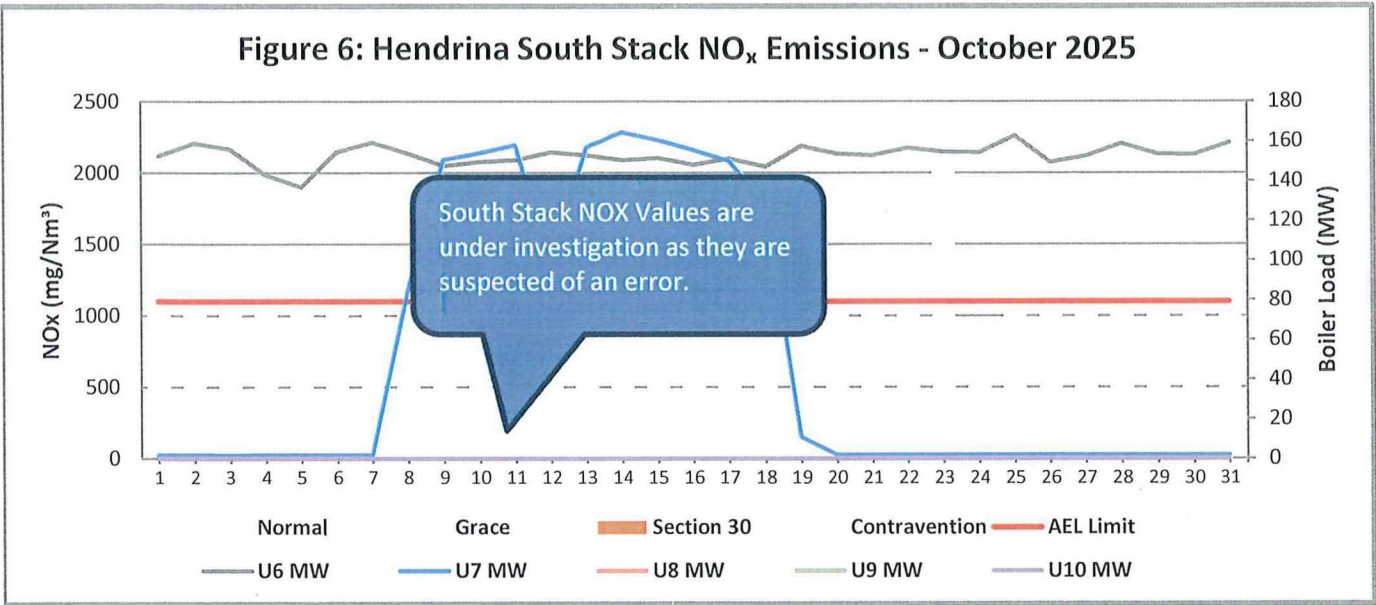


Figure 6: Hendrina South Stack NO_x Emissions - October 2025



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 on the North Stack and unit 10 were offload during the month of October 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 conducted and implemented.

South Stack NO_x 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 authorities within the stipulated timeframe.

9 Complaints and S30 Incidents Register

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

A.Boja

17 April 2026

Compiled: Environmental Officer Date
A. Boja

Moyahabo Cetlyff Maoto

20 April 2026

Checked by: System
Engineer Boiler/ FFP
Moyahabo Cetlyff Maoto

pp

2026/04/20

Validated by Manager: **Boiler Engineering Manager**
G. Kgwatlhe

T. Lekalakala

22/04/2026

Authorised by: GM Date
T. Lekalakala

Supported by: **Environmental Manager**
L. Ntila

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