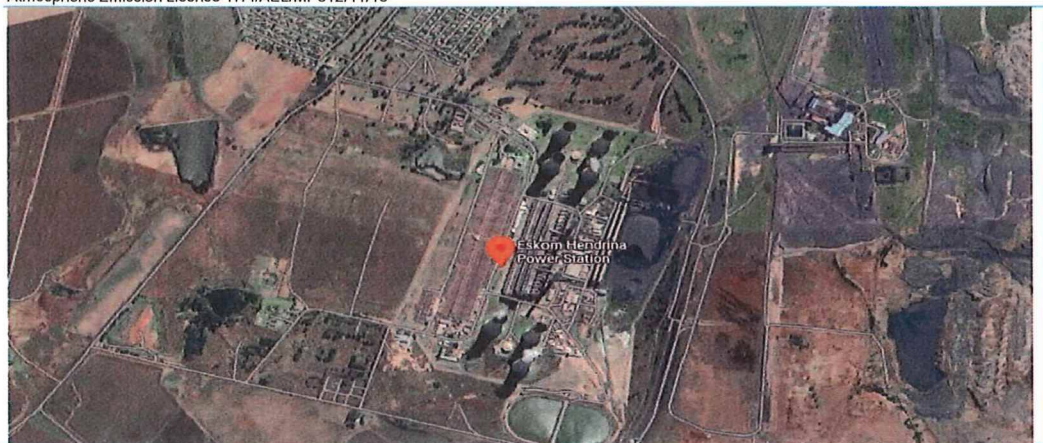


HENDRINA POWER STATION MONTHLY EMISSIONS REPORT

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 May-2025
	Coal	Tons	820 000	312 046.0
	Fuel Oil	Tons	3 200	1250.23
Production Rates	Product / By-Product Name	Units	Max. Production Capacity Permitted	Production Rate May-2025
	Energy	GWh	1488	480.13
	Ash	Tons	290 000	72 566
	RE PM	kg/MWh	not specified	0.151

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristics	Units	Stipulated Range	Monthly Average Content
Sulphur Content	%	0.6 to < 1	0.66
Ash Content	%	20 to < 35	22.40

3 EMISSION LIMITS (mg/Nm³)

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

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency May-2025
Unit 1	Fabric Filter Plant (FFP)	Unit Off-line
Unit 2	Fabric Filter Plant (FFP)	100%
Unit 3	Fabric Filter Plant (FFP)	Unit Off-line
Unit 4	Fabric Filter Plant (FFP)	Unit Off-line
Unit 5	Fabric Filter Plant (FFP)	100%
Unit 6	Fabric Filter Plant (FFP)	100%
Unit 7	Fabric Filter Plant (FFP)	100%
Unit 8	Fabric Filter Plant (FFP)	Unit Off-line
Unit 9	Fabric Filter Plant (FFP)	Unit Off-line
Unit 10	Fabric Filter Plant (FFP)	100%

Note: Abatement plant does not have bypass mode operation, hence plant 100% Utilised.

5 MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO	O ₂	CO ₂
North	97.0				
South	97.0	96.6	96.6	94.2	93.3

GM35 probe faulty and SO₂ & NO not available due to monitor defect

Note: NO_x emissions is measured as NO in PPM. Final NO_x value is expressed as total NO₂.

6 EMISSION PERFORMANCE

Table 6.1 Monthly tonnages for the month of May-2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
North	26.2	1 557.4	820.4
South	46.4	1 477.0	824.8
SUM	72.6	3 034.4	1 645.2

Table 6.2 Operating days in compliance to PM AEL Limit - May 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm ³)
North	31	0	0	0	0	17.1
South	25	4	0	2	6	43.0
SUM	56	4	0	2	6	

Table 6.3 Operating days in compliance to SO₂ AEL Limit - May 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm ³)
North	31	0	0	0	0	1 002.0
South	31	0	0	0	0	1 313.5
SUM	62	0	0	0	0	

Table 6.4 Operating days in compliance to NO_x AEL Limit - May 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm ³)
North	31	0	0	0	0	527.8
South	30	0	0	1	1	742.0
SUM	61	0	0	1	1	

Table 6.5: Legend Description

Condition	Colour	Description
Normal	Green	Emissions below Emission Limit Value (ELV)
Grace	Dark 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

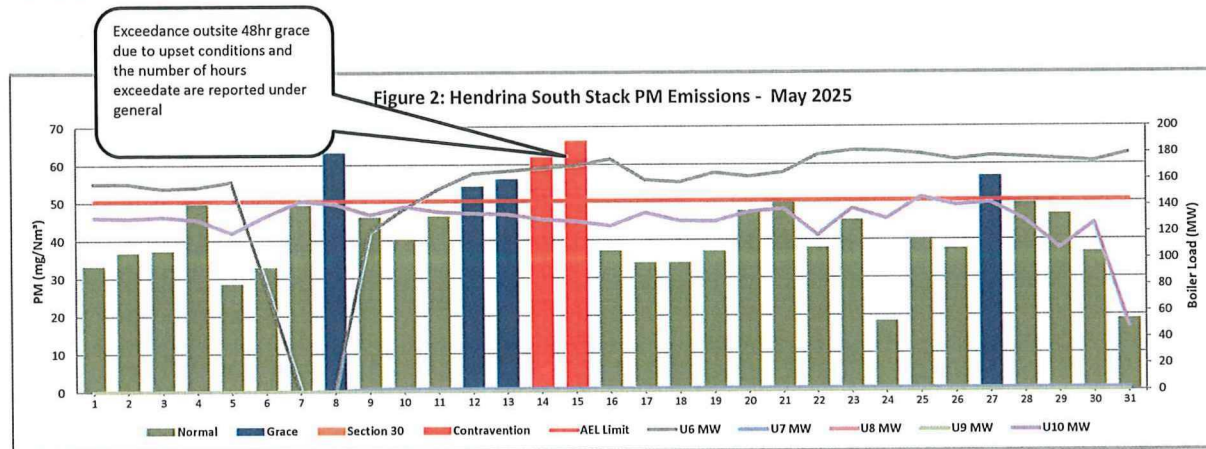
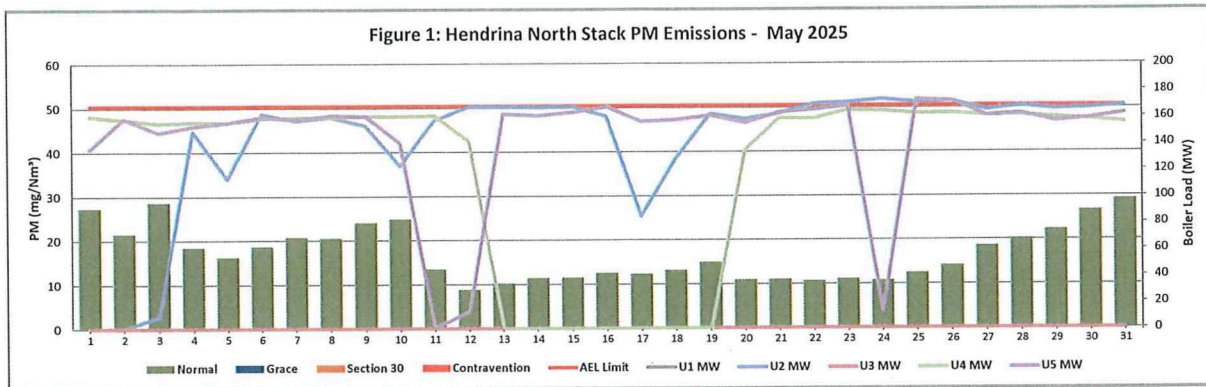


Figure 3: Hendrina North Stack SO₂ Emissions - May 2025

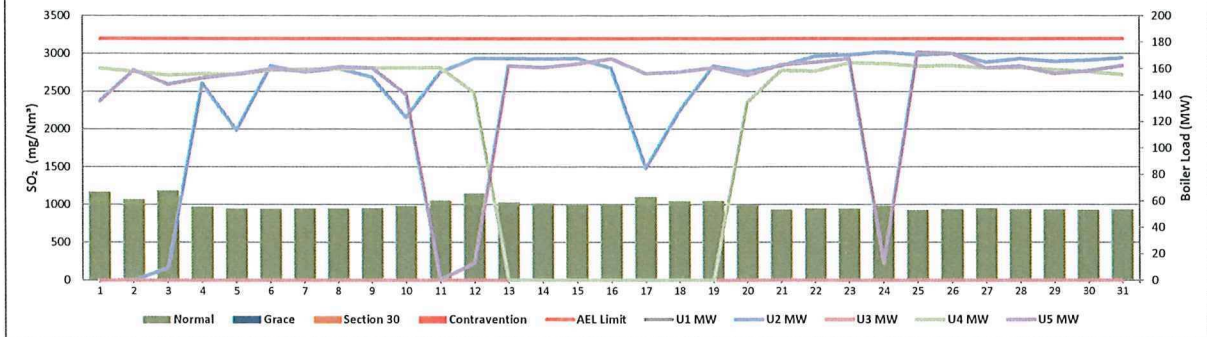


Figure 4: Hendrina South Stack SO₂ Emissions - May 2025

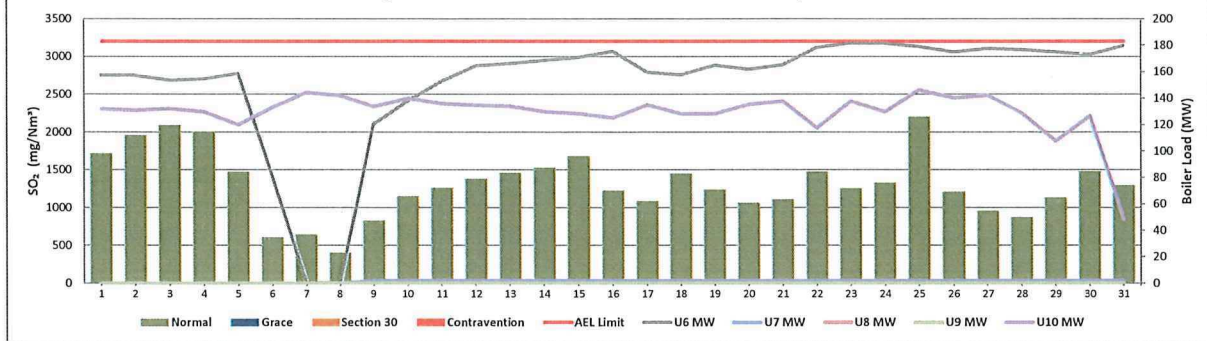
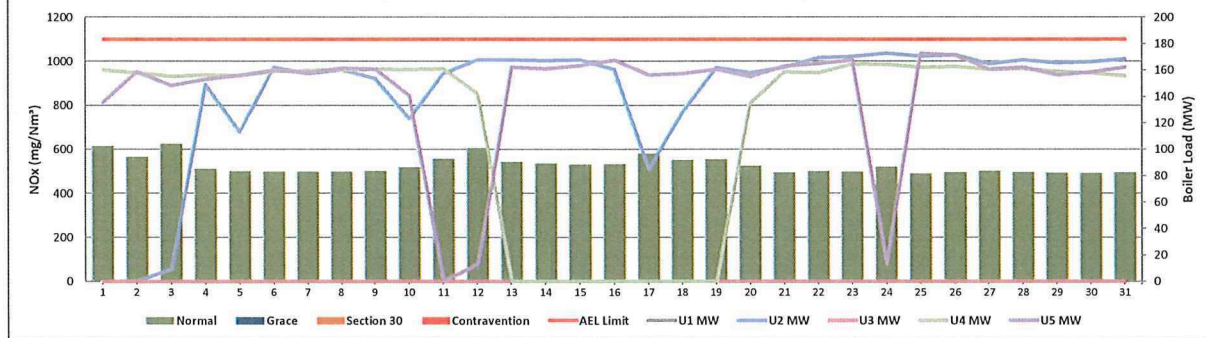
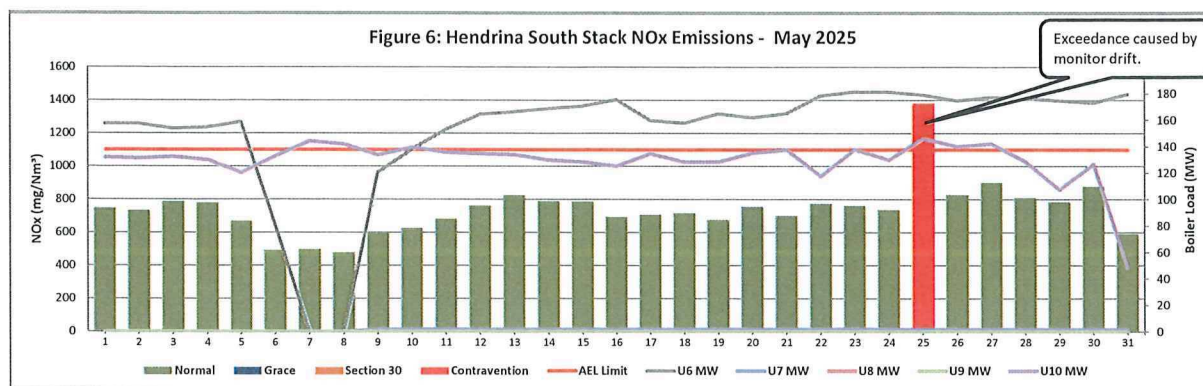


Figure 5: Hendrina North Stack NO_x Emissions - May 2025





7 SHUT DOWN AND LIGHT UP INFORMATION

Table 7.1 PM Start-up information for the month of May-2025

North Stack	Event 1		Event 2		Event 3		Event 4	
Unit No.	Unit 2		Unit 2		Unit 4		Unit 5	
Breaker Open (BO)	BO previously	BO previously	11:05 pm	2025/05/09	9:45 am	2025/05/12	9:55 pm	2025/05/10
Draught Group (DG) Shut Down (SD)	n/a	n/a	DG did not trip or SD	DG did not trip or SD	9:25 pm	2025/05/12	3:45 am	2025/05/11
BO to DG SD (duration)	n/a	DD:HH:MM	n/a	DD:HH:MM	00:11:40	DD:HH:MM	00:05:50	DD:HH:MM
Fires in time	4:35 pm	2025/05/02			19:15:55	2025/05/19	18:05:00	2025/05/11
Synch. to Grid (or BC)	9:30 pm	2025/05/03			5:50 am	2025/05/20	8:40 pm	2025/05/12
Fires in to BC (duration)	01:04:55	DD:HH:MM		DD:HH:MM	00:13:55	DD:HH:MM	01:02:35	DD:HH:MM
Emissions below limit from BC (end date)	not > limit	not > limit			not > limit	not > limit	not > limit	not > limit
Emissions below limit from BC (duration)	n/a	DD:HH:MM		DD:HH:MM	n/a	DD:HH:MM	n/a	DD:HH:MM

North Stack ...Continued	Event 5		Event 2		Event 3		Event 4	
Unit No.	no event		no event		no event		no event	
Breaker Open (BO)								
Draught Group (DG) Shut Down (SD)								
BO to DG SD (duration)		DD:HH:MM		DD:HH:MM		DD:HH:MM		DD:HH:MM
Fires in time								
Synch. to Grid (or BC)								
Fires in to BC (duration)		DD:HH:MM		DD:HH:MM		DD:HH:MM		DD:HH:MM
Emissions below limit from BC (end date)								
Emissions below limit from BC (duration)		DD:HH:MM		DD:HH:MM		DD:HH:MM		DD:HH:MM

South Stack	Event 1		Event 2		Event 3		Event 4	
Unit No	Unit 6		Unit 10		no event		no event	
Breaker Open (BO)	3 05 am	2025/05/06	4 35 am	2025/05/31				
Draught Group (DG) Shut Down (SD)	2 05 pm	2025/05/06	5 45 am	2025/05/31				
BO to DG SD (duration)	00 11 00	DD HH MM	00 01 10	DD HH MM		DD HH MM		DD HH MM
Fires in time	4 35 pm	2025/05/08	07 45 00	2025/05/31				
Synch to Grid (or BC)	4 20 am	2025/05/09	11 55 pm	2025/05/30				
Fires in to BC (duration)	00 11 45	DD HH MM	00 00 16	DD HH MM		DD HH MM		DD HH MM
Emissions below limit from BC (end date)	not > limit	not > limit	not > limit	not > limit				
Emissions below limit from BC (duration)	n/a	DD HH MM	n/a	DD HH MM		DD HH MM		DD HH MM

South Stack Continued	Event 1		Event 2		Event 3		Event 4	
Unit No	no event		no event		no event		no event	
Breaker Open (BO)								
Draught Group (DG) Shut Down (SD)								
BO to DG SD (duration)		DD HH MM		DD HH MM		DD HH MM		DD HH MM
Fires in time								
Synch to Grid (or BC)								
Fires in to BC (duration)		DD HH MM		DD HH MM		DD HH MM		DD HH MM
Emissions below limit from BC (end date)								
Emissions below limit from BC (duration)		DD HH MM		DD HH MM		DD HH MM		DD HH MM

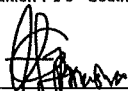
7.2 Point Source emissions released during start-up (fires-in) and Shut down (SD) for the month of May-2025 in mg/Nm³

[Include reference to once off test showing typical emissions rates during fires in and SD]

11 General

11.1 North stack gaseous surrogate value for the entire month were used from 2024/04/25/RGND0100(1) QAL 2 report. The monitors are currently being replaced and parallel tests will be conducted thereafter.

11.2 Reporting as per AEL condition 7.2.8 "South stack PM hours exceeded is 47"

pp  2025/06/30
 Compiled Environmental Officer Date
 A. Boja

 2025/06/30
 Authorised by GM Date
 T. Lekalakala

Compiled by Environmental Management Department

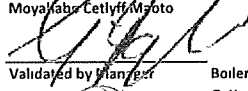
For Nkangala District Municipality

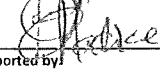
Copies Eskom Generation Environmental Management Department

Group Technology Engineering

Hendrina Power Station

 2025/06/30
 Checked by System Engineer Boiler/ FFP Date
 M. Moyo

 2025/06/30
 Validated by Manager Boiler Engineering Manager Date
 G. Kgwathe

pp  2025/06/30
 Supported by Environmental Manager Date
 L. Ntla

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