

Nkangala District Municipality 2A Walter Sisulu Middelburg 1050 Date: 2025.07.24

Inquiries: Mariam Joseph Tel +27 13 297 9828 Fax + 27 86 661 7663

Dear Mrs Simelane

ARNOT POWER STATION'S MONTHLY EMISSIONS REPORT FOR THE MONTH OF JUNE 2025

This serves as the monthly report required in terms of Section 6 in Arnot Power Station's Atmospheric Emission License. The emissions are for June 2025, verified emissions of particulates; SO_2 and NO_x (as NO_2) are also included.

Raw Materials and Products

Table1: Quantity of Raw Materials and Products used/produced for the Month of June 2025

Raw Materials and	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Consumption/ Rate in Month of June 2025
i roddeis dsed	Coal	Tons/month	1 050 330	409 712.8
	Fuel Oil	Tons/month	10 000	2926.82
	Product/ By-	Unit	Maximum Production Capacity	Production Rate in Month of June
Production Rates			Permitted (Quantity)	2025
Floudction Nates	Energy	GWh	1 785 600	703.023
	Ash	Tons/month	421 000	135 205

Table 2.1 (a) Abatement Equipment Efficiency Control Technology for month of June 2025

Associated Unit/Stack	Technology Type	Actual Efficiency (%) for the month of June 2025
North Stack	Fabric Filter Bags	99.81%
South Stack	Fabric Filter Bags	99.9%

Table 2.1 (b) Abatement Equipment Utilisation (%) for the month of June 2025

Associated Unit/Stack	Technology Type	Utilisation June 2025
North	Fabric Filter Plant (FFP)	100 %
South	Fabric Filter Plant (FFP)	100 %

Table 2.1 (c) Monitor Reliability (%)

Associated Unit/Stack	PM	SO₂	NO
Stack 1	100	99.9	100
Stack 2	100	100	100

Energy Source Characteristics

Table 3: Energy Source Material Characteristics for the month of June 2025

Characteristic	Stipulated Range (Unit)	Monthly Average Content
Sulphur Content	0.5 to < 1 (%)	1.040
Ash Content	17 to < 40 (%)	33.00
Calorific Value (Dry base)	≥ 22.76 (MJ/kg)	20.87

Table 4 Operating days in compliance to PM AEL Limit – June 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
North	30	0	0	0	0	34.5
South	30	0	0	0	0	24.1
	60	0	0	0	0	

Table 5: Operating days in compliance to NOx AEL Limit –June 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
North	30	0	0	0	0	810.0
South	30	0	0	0	0	800.3
SUM	60	0	0	0	0	

Table 6: Operating days in compliance to Sox AEL Limit –June 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SOx (mg/Nm³)
North	26	0	0	4	4	2 105.2
South	22	0	0	8	8	2 217.8
SUM	48	0	0	12	12	

Emissions Reporting

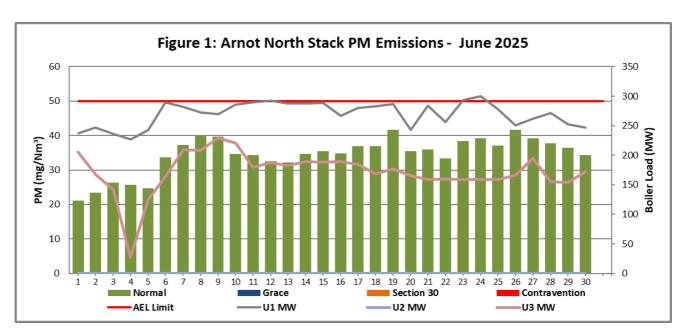


Figure 1: PM emissions (daily averages) for the month of June 2025 against the emission limit for the North Stack

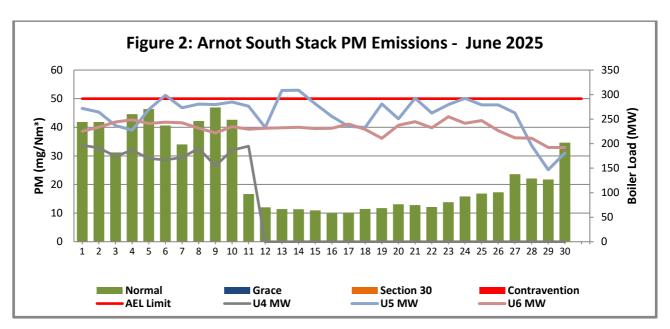


Figure 2: PM emissions (daily averages) for the month of June 2025 against emission limit for the South Stack

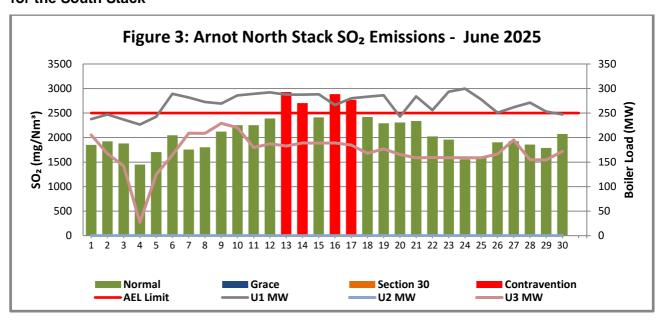


Figure 3: SO₂ emissions (daily averages) for the month of June 2025 against emission limit for the North Stack

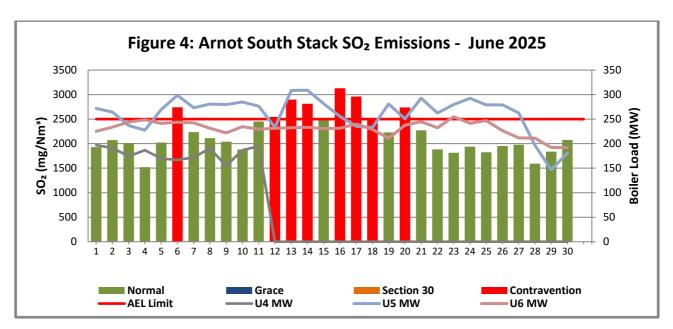


Figure 4: SO₂ emissions (daily averages) for the month of June 2025 against emission limit for the South Stack

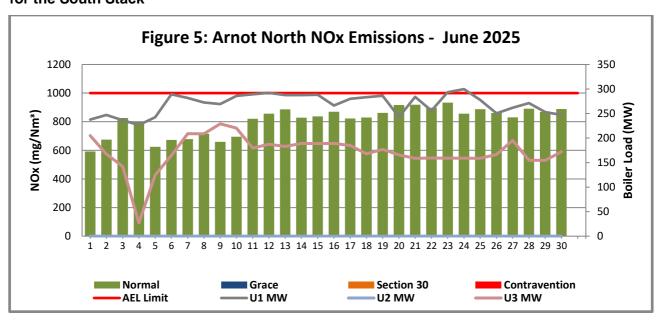


Figure 5: NO₂ emissions (daily averages) for the month of June 2025 against emission limit for the North Stack

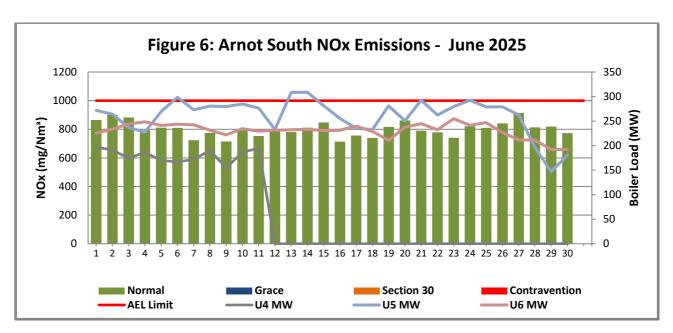


Figure 6: NO₂ emissions (daily averages) for the month of June 2025 against emission limit for the South Stack

Table 7: Monthly tonnages for the month of June 2025

Unit	PM (tons)	SO ₂ (tons)	NO ₂ (tons)
Total Tons			
(North &	142.6	10359	3868
South Stack)			

Table 8: Each unit and respective days operating under normal operation, days in grace period, and section 30 days respectively.

Unit	Days operating under normal operation	Days operating in grace period	Days operating under \$30
1	30	0	0
2	30	0	0
3	30	0	0
4	30	0	0
5	30	0	0
6	30	0	0

Light up information

Continuous reporting is being done even during start-ups emissions were not affected.

Complaints Register

Table 9. Complaints for the month of June 2025

No Noise, dust and offensive odors complaints registered in the month of June 2025.

Source Code/ Name		Calculation of impacts/ citissions	·	Measures implemented to prevent reoccurrence	Date by which measure will be implemented
None	0	0	0	0	0

General

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission reports sent to your office.

Both North and South stack SOx exceedances are attributed to poor coal qualities as per Table 3: Energy Source Material Characteristics for the month of June 2025. PED and coal management engaged to improve the overall quality of coal burnt.

Hoping the above will meet your satisfaction.

2025.08.04

Compiled by Date:

Lawrence Machebe

ENVIRONMENTAL OFFICER: ARNOT POWER STATION

Verified by Date: 26-07-2025

Jan-Louis Human

SYSTEM ENGINEER: ARNOT POWER STATION

Supported by: Date:

2025/08/04

Rofhiwa Tshikovha

SENIOR ENVIRONMENTAL ADVISOR: ARNOT POWER STATION

Yours sincerely

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Marcus Nemadodzi Date: 2025-08-05

GENERAL MANAGER: ARNOT POWER STATION