

CAMDEN POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License CPS/0012/2024/F04


1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Maximum Permitted Consumption	Actual Consumption May-2025
	Coal	Tons	550 000	375 013.00
	Fuel Oil	Tons	6 500	1 399.91
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production May-2025
	Energy	GWh	1190	588.06
	Ash	Tons	200 000	78 753
	RE PM	kg/MWh	not specified	0.156

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	23.56
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	21.00

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM	SO ₂	NO _x
Stack 1	50	3500	1100
Stack 2	50	3500	1100
Stack 3	50	3500	1100
Stack 4	50	3500	1100

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency May-2025
Unit 1	Fabric Filter Plant (FFP)	Off
Unit 2	Fabric Filter Plant (FFP)	99.998%
Unit 3	Fabric Filter Plant (FFP)	99.998%
Unit 4	Fabric Filter Plant (FFP)	99.998%
Unit 5	Fabric Filter Plant (FFP)	99.999%
Unit 6	Fabric Filter Plant (FFP)	99.999%
Unit 7	Fabric Filter Plant (FFP)	100.000%
Unit 8	Fabric Filter Plant (FFP)	100.000%

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

5 MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO
Stack 1	100.0	98.2	98.6
Stack 2	100.0	96.6	97.2
Stack 3	100.0	95.6	96.2
Stack 4	100.0	84.5	99.3

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)
1	Off	Off	Off
2	20.87	909	491
3	23.31	1 178	776
4	22.05	1 028	687
5	14.19	1 303	657
6	8.80	1 026	492
7	1.09	669	471
8	1.65	747	558
SUM	91.94	6 861	4 132

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/Nm³)
Stack 1	28	0	0	0	0	28.4
Stack 2	31	0	0	0	0	30.4
Stack 3	31	0	0	0	0	18.0
Stack 4	30	0	0	0	0	2.1
SUM	120	0	0	0	0	

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/Nm³)
Stack 1	30	0	0	0	0	1 168.8
Stack 2	31	0	0	0	0	1 531.0
Stack 3	31	0	0	0	0	1 684.9
Stack 4	31	0	0	0	0	1 041.9
SUM	123	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/Nm³)
Stack 1	30	0	0	0	0	631.2
Stack 2	28	3	0	0	3	1 008.0
Stack 3	31	0	0	0	0	836.5
Stack 4	29	2	0	0	2	760.8
SUM	118	5	0	0	5	

Table 6.5: Legend Description

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

Figure 1: Camden Stack 1 PM Emissions - May 2025

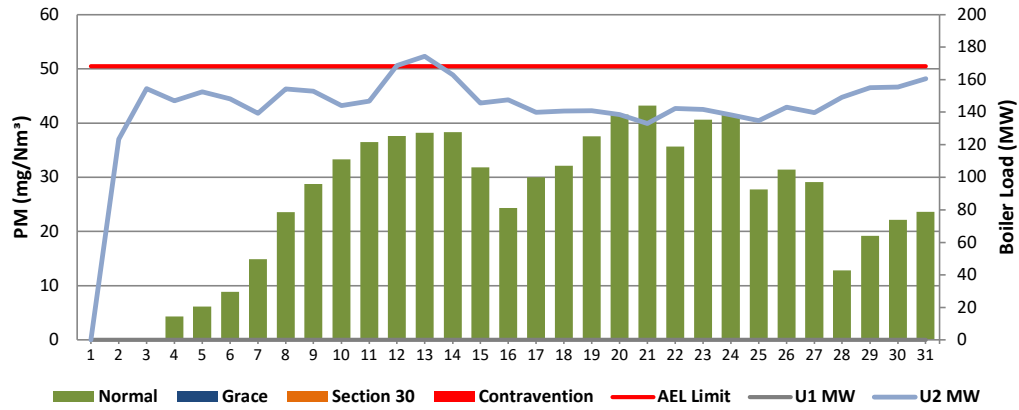


Figure 2: Camden Stack 2 PM Emissions - May 2025

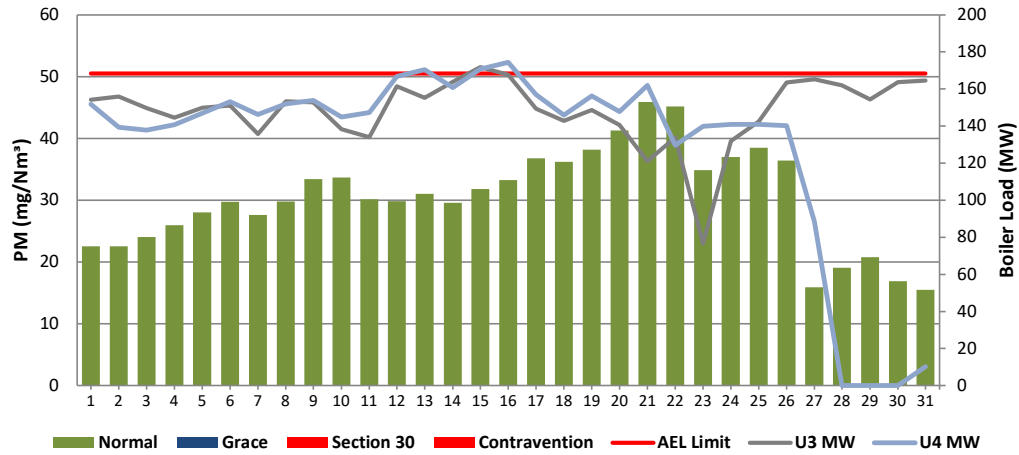


Figure 3: Camden Stack 3 PM Emissions - May 2025

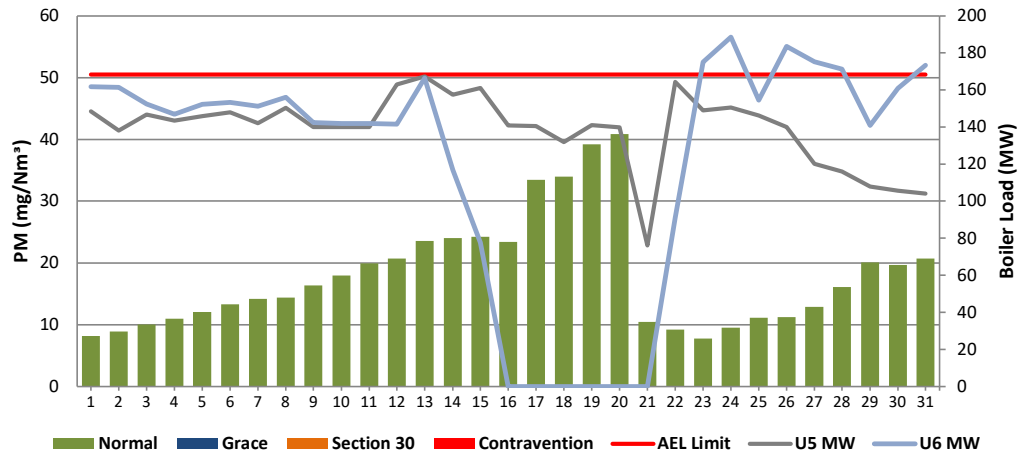


Figure 4: Camden Stack 4 PM Emissions - May 2025

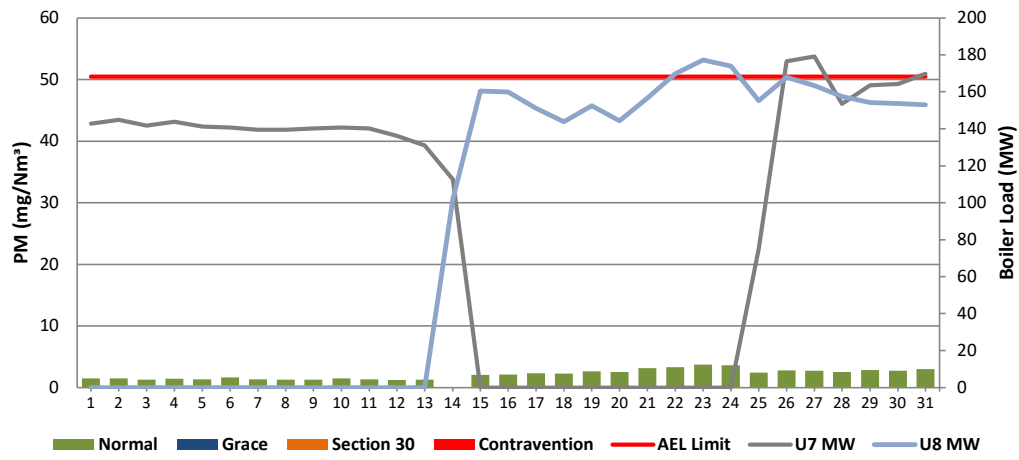


Figure 5: Camden Stack 1 SO₂ Emissions - May 2025

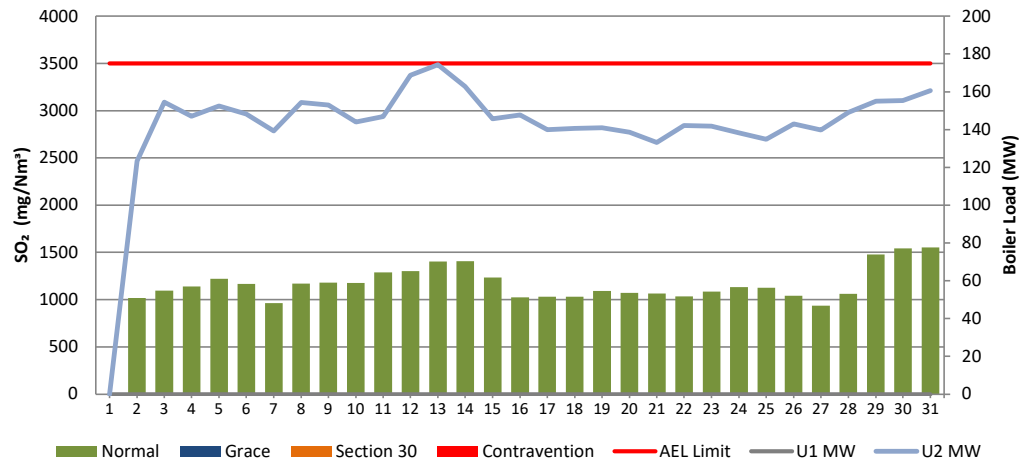


Figure 6: Camden Stack 2 SO₂ Emissions - May 2025

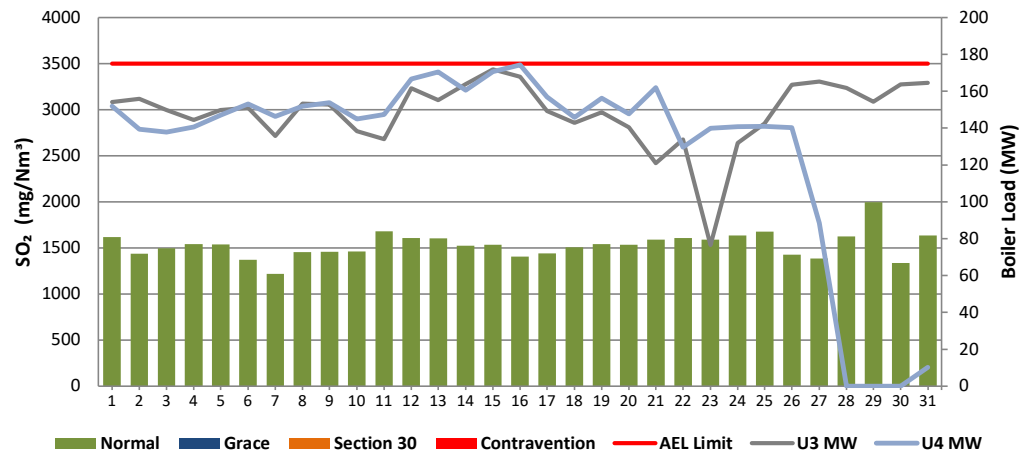


Figure 7: Camden Stack 3 SO₂ Emissions - May 2025

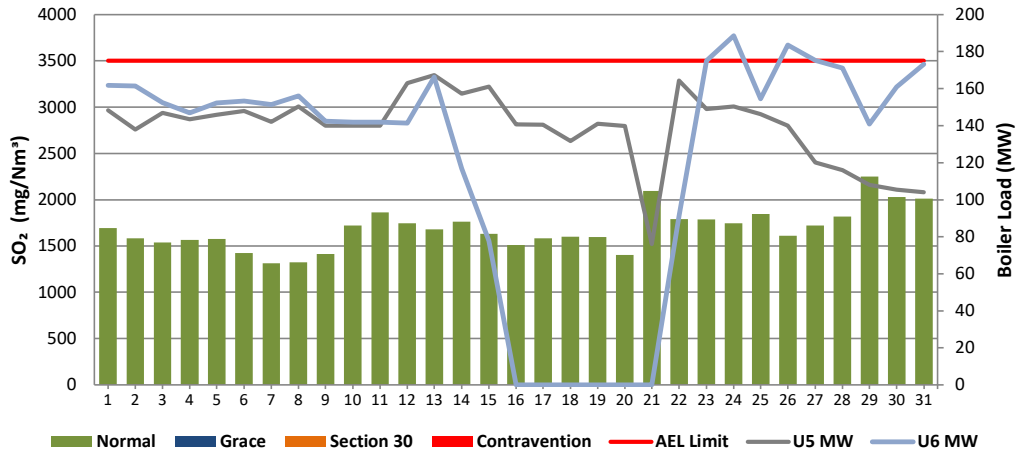


Figure 8: Camden Stack 4 SO₂ Emissions - May 2025

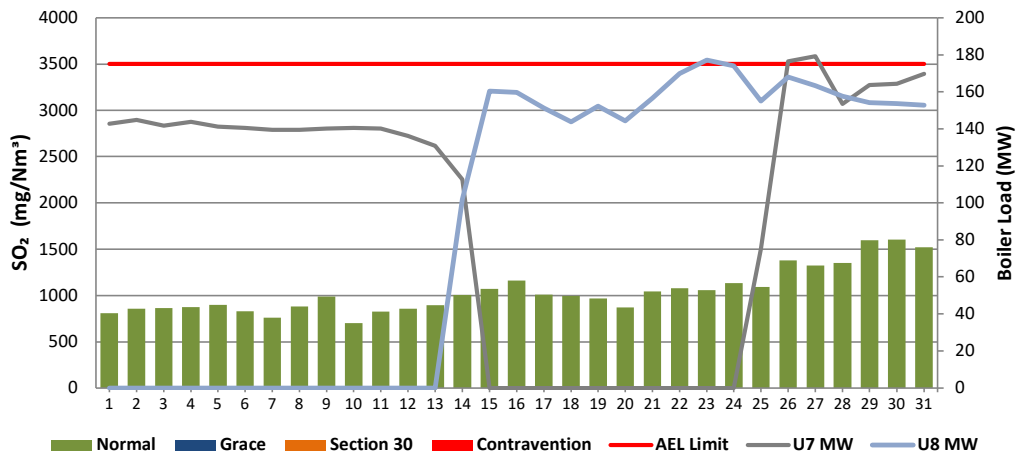


Figure 9: Camden Stack 1 NOx Emissions - May 2025

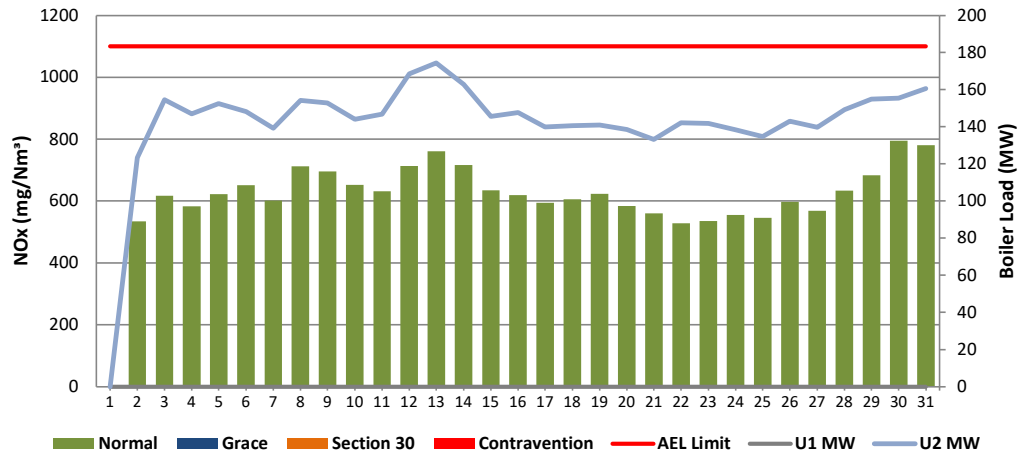


Figure 10: Camden Stack 2 NOx Emissions - May 2025

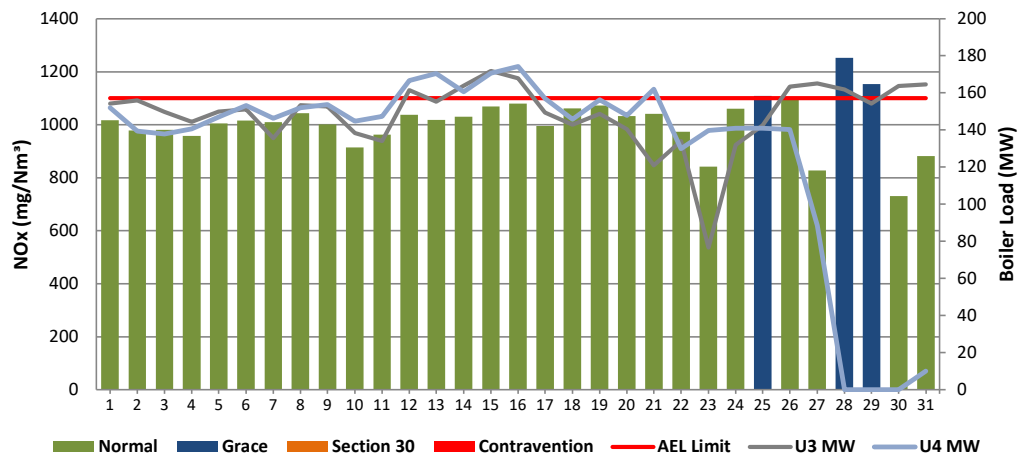


Figure 11: Camden Stack 3 NOx Emissions - May 2025

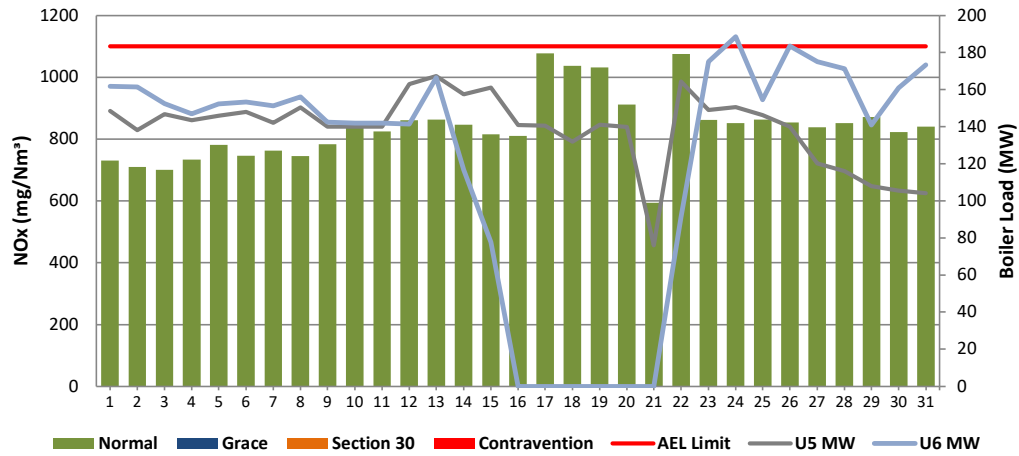
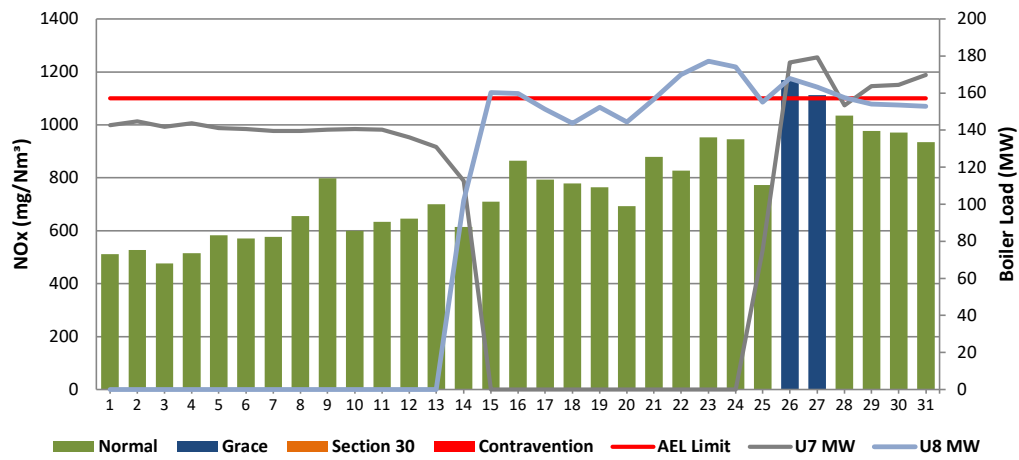


Figure 12: Camden Stack 4 NOx Emissions - May 2025



10 GENERAL / ABNORMALITIES

Unit 1:

Unit 1 GO

Unit 2:

71 FFP bags replace to reduce high stack emissions

Unit 3:

78 FFP bags replace to reduce high stack emissions

Unit 4:

84 FFP bags replace to reduce high stack emissions
Stack 2 high NOx readings due to shutdown of Unit 4

Unit 5:

29 FFP bags replace to reduce high stack emissions

Unit 6:

14 FFP bags replace to reduce high stack emissions

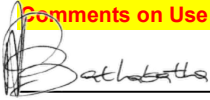
Unit 7:

Stack 4 high NOx readings due to light-up of Unit 7

Unit 8:

06 FFP bags replace to reduce high stack emissions

Comments on Use of averages for O2 and CO2 from QAL2 tests as per previous months


Engineering Manager

19/06/2025
Date

p.p. 
Environmental Manager

19/06/2025
Date

Compiled by: Environmental Department & verified by Boiler Eng

Env. Practitioner & System Eng

For: Department of Environment, Forestry & Fisheries

Chief Air Pollution Control Officer

Copies: Eskom Environmental Management

D Herbst
B Mccourt

Gx Compliance Management
Gx Asset Management

R Rampiar
E Patel

Camden Power Station:

Engineering Manager
Operating Manager
Maintenance Manager
Production Managers
Boiler Engineering Manager
System Engineer
Environmental Manager
Environmental Officer
P&T and Process Engineering Manager