

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 Apr-2025
	Coal	Tons	550 000	342 525.27
	Fuel Oil	Tons	6 500	2 238.42
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Apr-2025
	Energy	GWh	1190	626.84
	Ash	Tons	200 000	72 615
	RE PM	kg/MWh	not specified	0.133

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	23.6	23.62
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	21.20

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 Apr-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)	99.999%
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	94.1	91.7
Stack 2	100.0	91.9	95.1
Stack 3	100.0	92.5	97.1
Stack 4	100.0	93.6	97.4

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 April-2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	Off	Off	Off
2	16.45	828	453
3	16.33	948	627
4	20.26	1 185	771
5	11.26	1 129	612
6	11.54	1 326	667
7	3.39	1 196	901
8	4.01	1 189	908
SUM	83.24	7 801	4 940

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	22	0	0	0	0	28.0
Stack 2	30	0	0	0	0	27.1
Stack 3	30	0	0	0	0	15.5
Stack 4	30	0	0	0	0	4.2
SUM	112	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	23	0	0	0	0	1 361.9
Stack 2	30	0	0	0	0	1 530.3
Stack 3	30	0	0	0	0	1 730.7
Stack 4	30	0	0	0	0	1 217.3
SUM	113	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	23	0	0	0	0	741.2
Stack 2	28	2	0	0	2	991.2
Stack 3	30	0	0	0	0	868.0
Stack 4	27	3	0	0	3	921.3
SUM	108	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 - April 2025

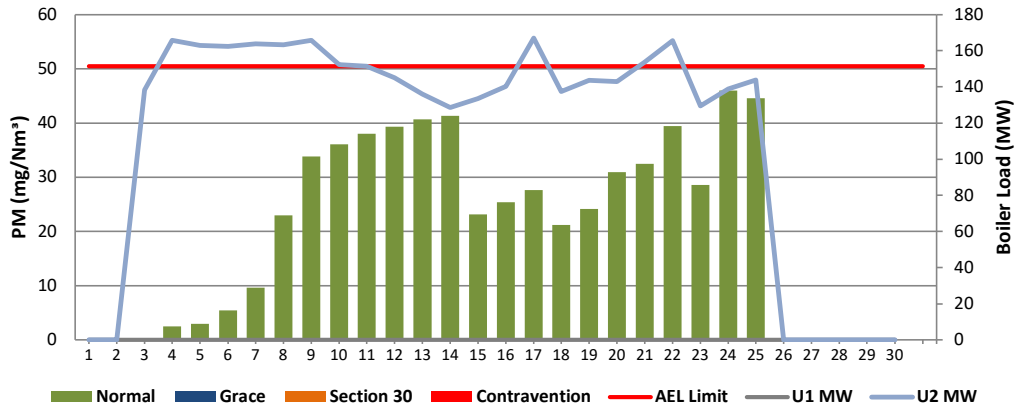


Figure 2: Camden Stack 2 PM Emissions - April 2025

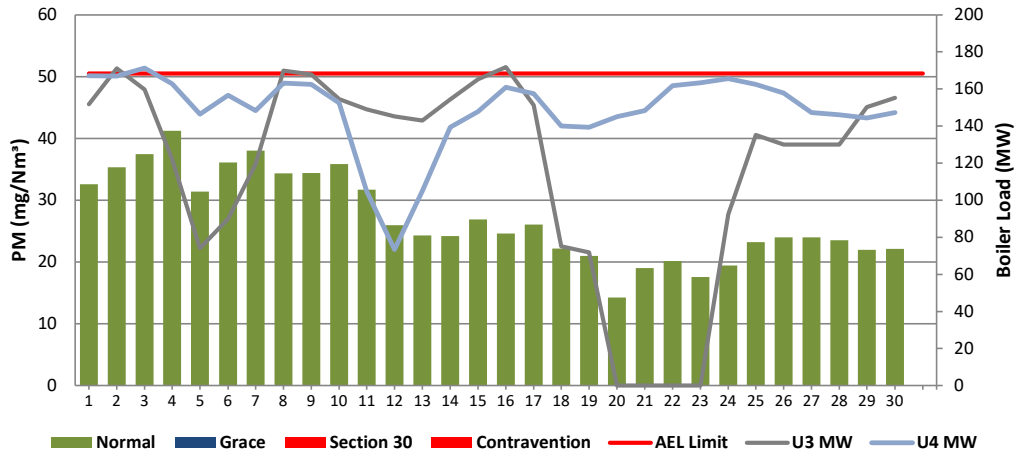


Figure 3: Camden Stack 3 PM Emissions - April 2025

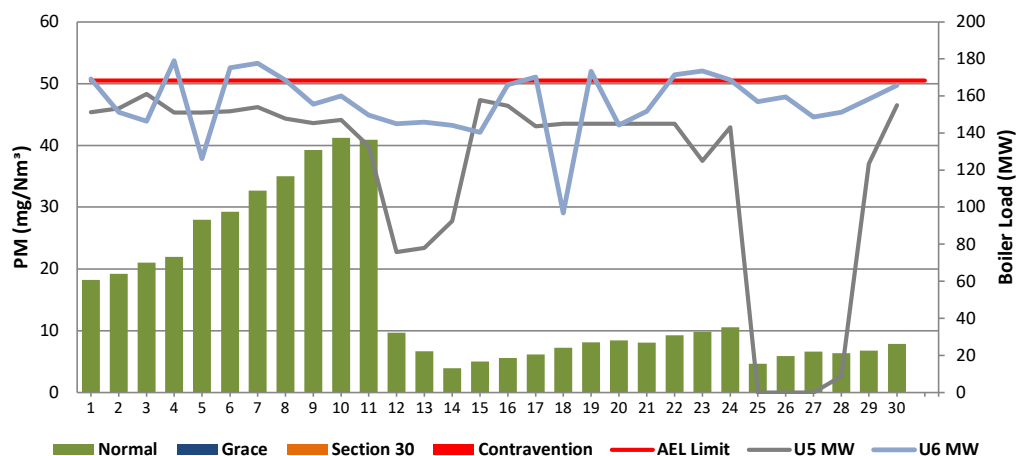


Figure 4: Camden Stack 4 PM Emissions - April 2025

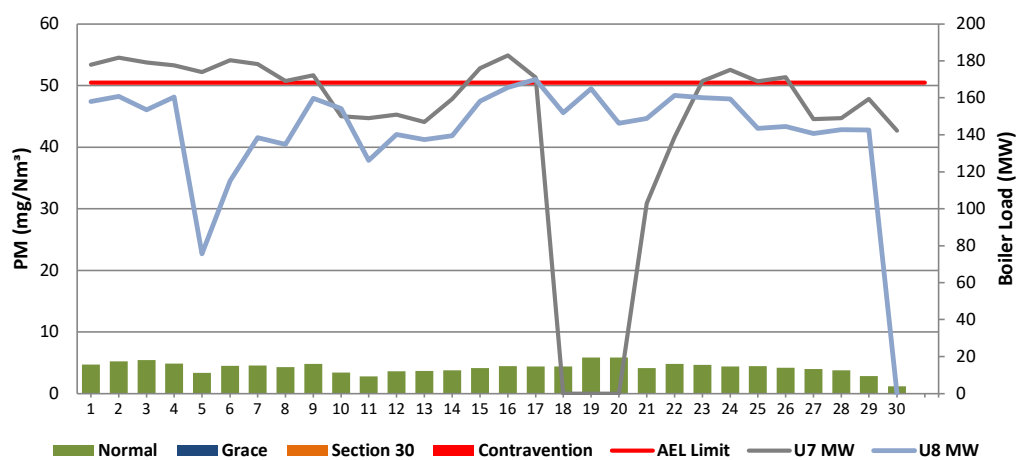


Figure 5: Camden Stack 1 SO₂ Emissions - April 2025

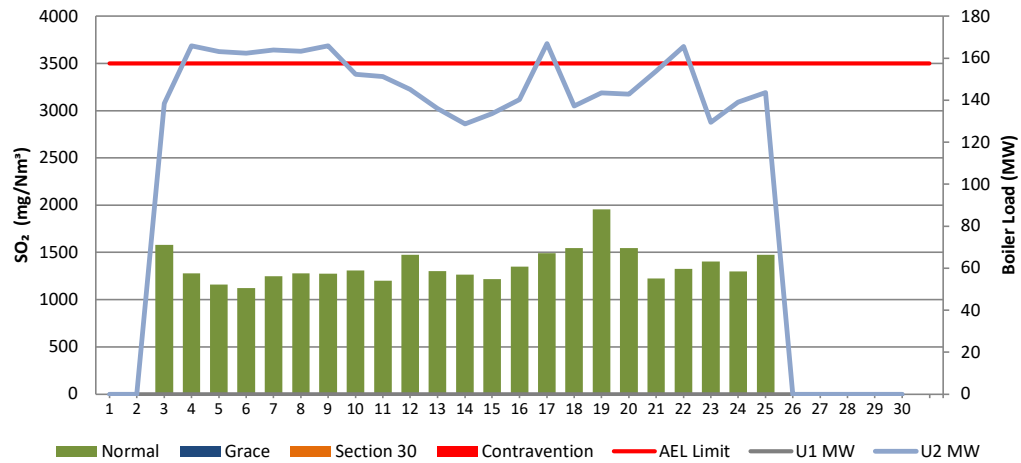


Figure 6: Camden Stack 2 SO₂ Emissions - April 2025

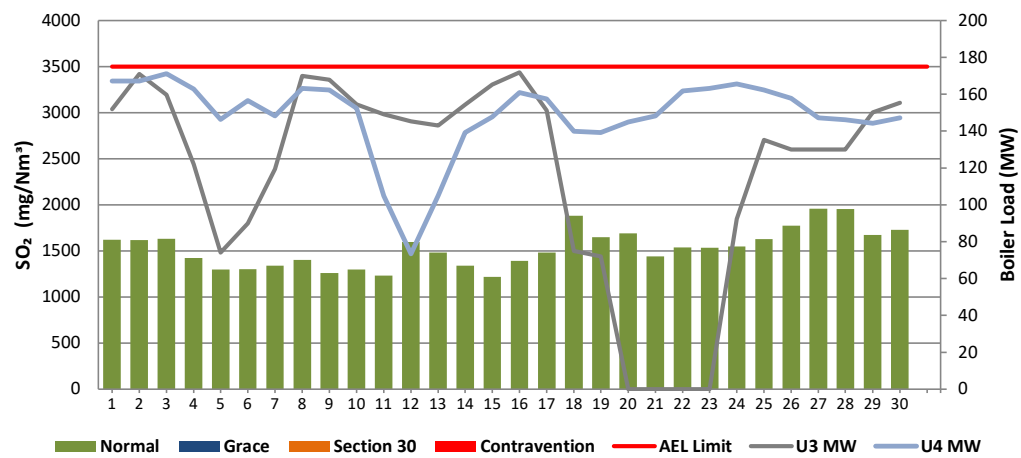


Figure 7: Camden Stack 3 SO₂ Emissions - April 2025

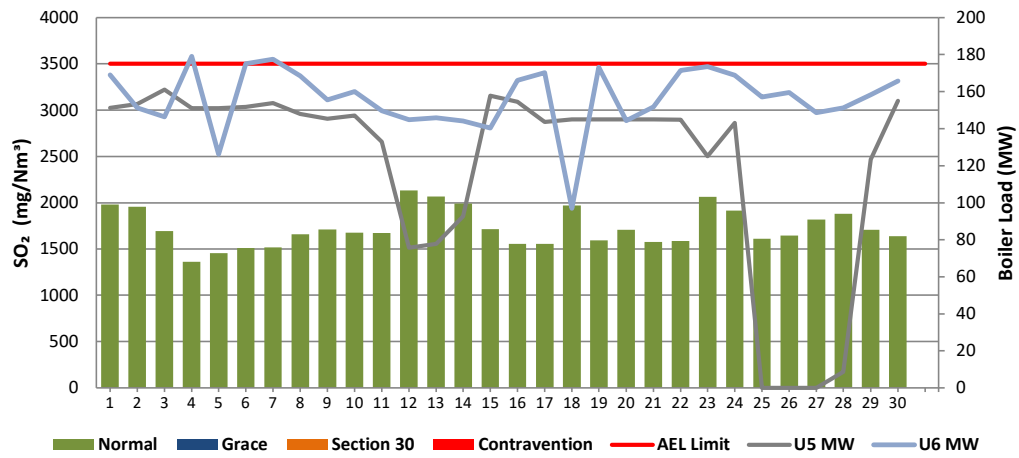


Figure 8: Camden Stack 4 SO₂ Emissions - April 2025

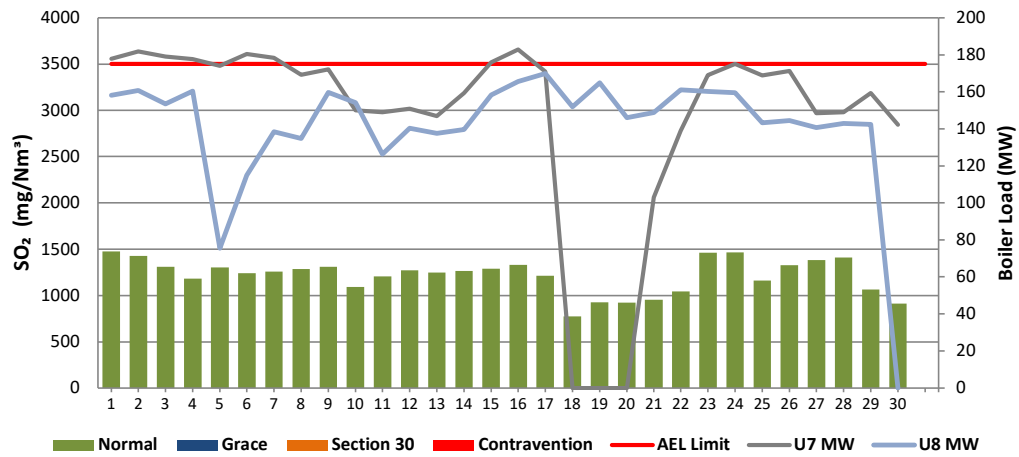


Figure 9: Camden Stack 1 NOx Emissions - April 2025

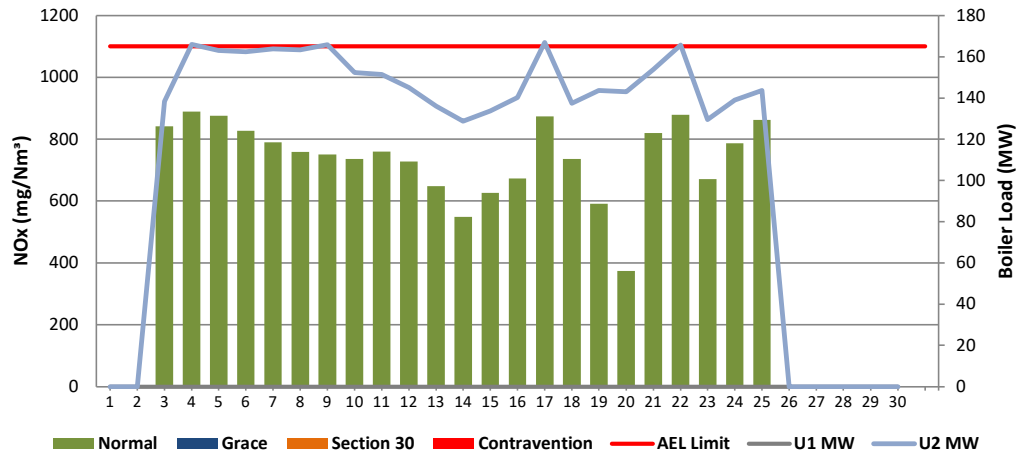


Figure 10: Camden Stack 2 NOx Emissions - April 2025

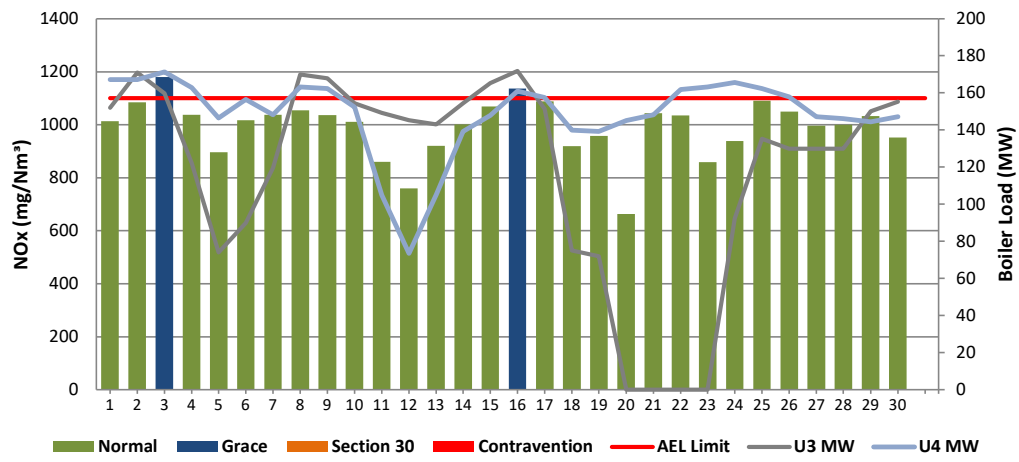


Figure 11: Camden Stack 3 NOx Emissions - April 2025

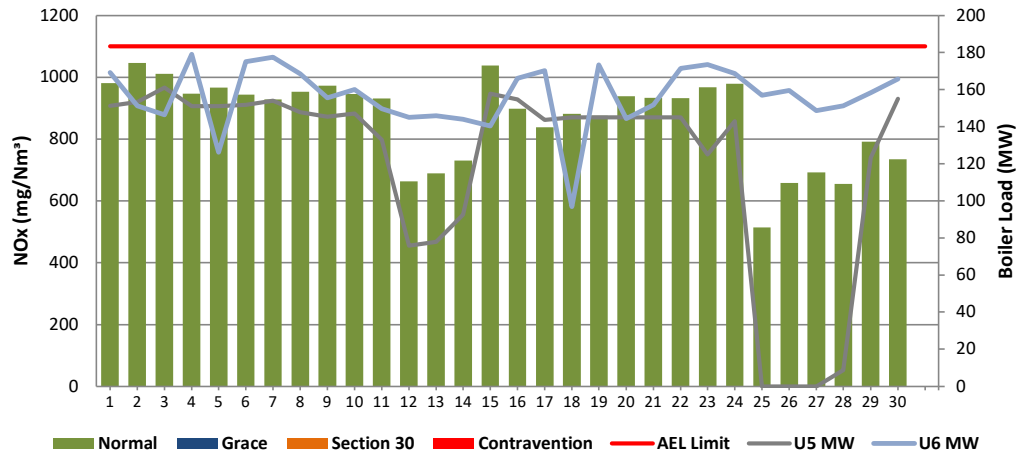
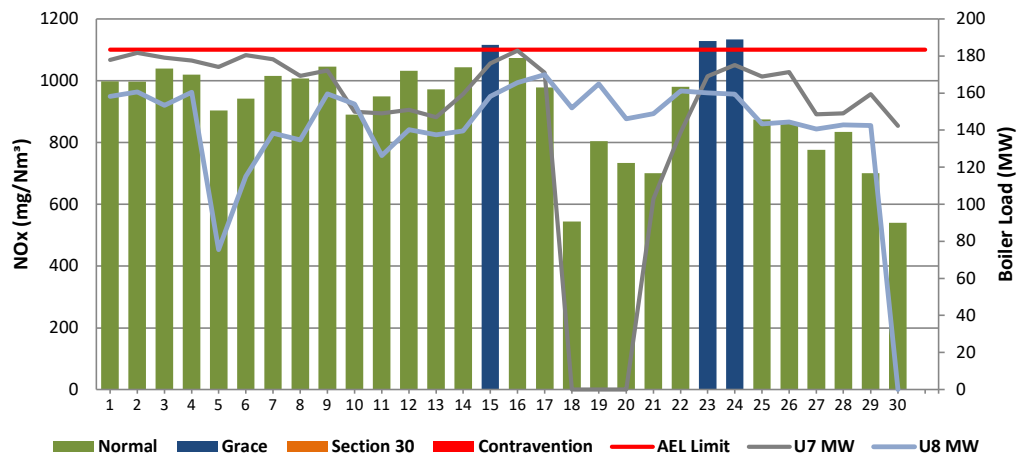


Figure 12: Camden Stack 4 NOx Emissions - April 2025



10 GENERAL / ABNORMALITIES

Unit 1:

off for the entire month

Unit 2:

Stack 1 H2O bad data, NOx maxed out on 19 April 2025 data removed

Stack 1 monitor froze, bad data removed till 2 April 2025

Unit 3:

Stack 2 bi-weekly calibration resulted in bad data that was removed

Stack 2 O2 data froze, removed bad data from 1 - 7 April 2025

Unit 4:

None

Unit 5:

None

Unit 6:

None

Unit 7:

None

Unit 8:

None

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



Engineering Manager

19/05/2025

Date



Environmental Manager

19/05/2025

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