

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 Feb-2025
	Coal	Tons	550 000	342 259.32
	Fuel Oil	Tons	6 500	2 994.73
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Feb-2025
	Energy	GWh	1190	589.80
	Ash	Tons	200 000	73 996
	RE PM	kg/MWh	not specified	0.147

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	22.76
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	21.62

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 Feb-2025
Unit 1	Fabric Filter Plant (FFP)	99.998%
Unit 2	Fabric Filter Plant (FFP)	99.998%
Unit 3	Fabric Filter Plant (FFP)	99.998%
Unit 4	Fabric Filter Plant (FFP)	99.999%
Unit 5	Fabric Filter Plant (FFP)	99.998%
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	98.0	95.4	95.8
Stack 2	99.3	99.0	99.4
Stack 3	100.0	96.1	98.7
Stack 4	100.0	97.9	99.0

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 February-2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	14.92	996	521
2	17.63	902	511
3	16.23	796	565
4	8.56	657	441
5	13.93	831	426
6	11.60	952	467
7	1.42	729	497
8	2.31	1 192	795
SUM	86.59	7 056	4 222

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	27	0	0	0	0	25.4
Stack 2	28	0	0	0	0	27.7
Stack 3	27	1	0	0	1	24.7
Stack 4	28	0	0	0	0	2.5
SUM	110	1	0	0	1	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	28	0	0	0	0	1 556.4
Stack 2	28	0	0	0	0	1 357.5
Stack 3	28	0	0	0	0	1 507.8
Stack 4	28	0	0	0	0	1 191.8
SUM	112	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	28	0	0	0	0	810.5
Stack 2	25	3	0	0	3	938.1
Stack 3	28	0	0	0	0	733.9
Stack 4	28	0	0	0	0	793.7
SUM	109	3	0	0	3	

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 - February 2025

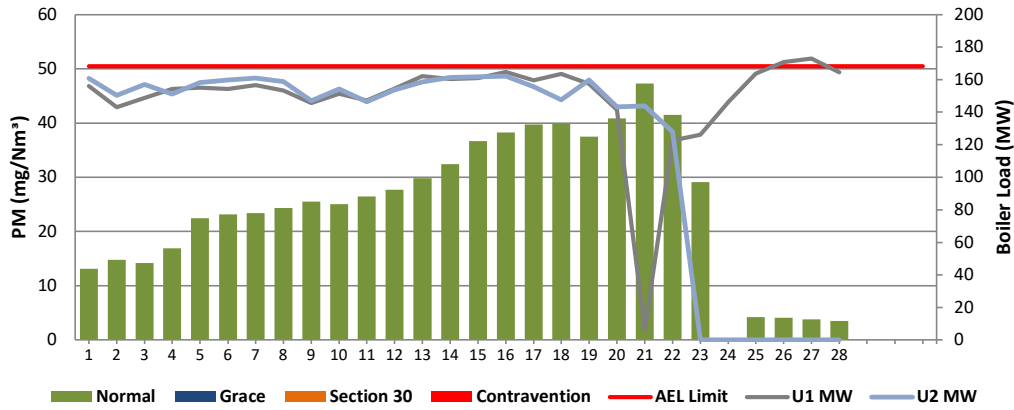


Figure 2: Camden Stack 2 PM Emissions - February 2025

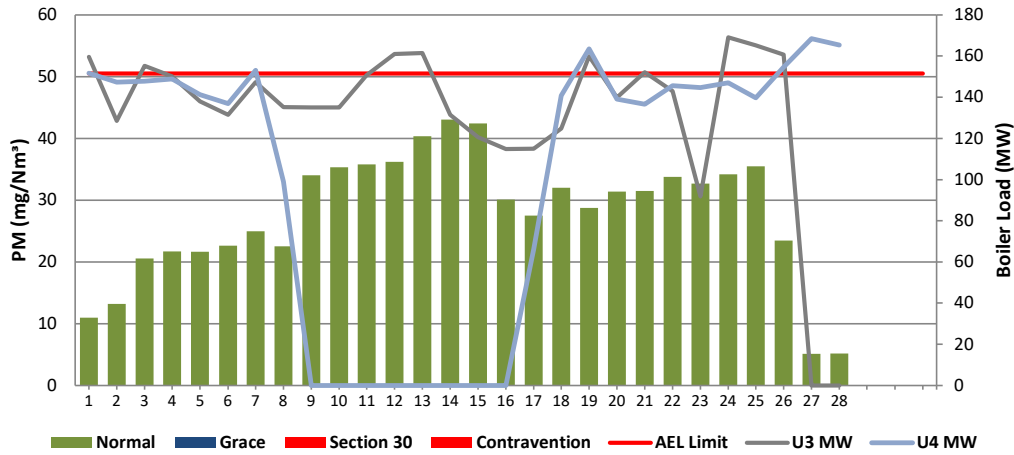


Figure 3: Camden Stack 3 PM Emissions - February 2025

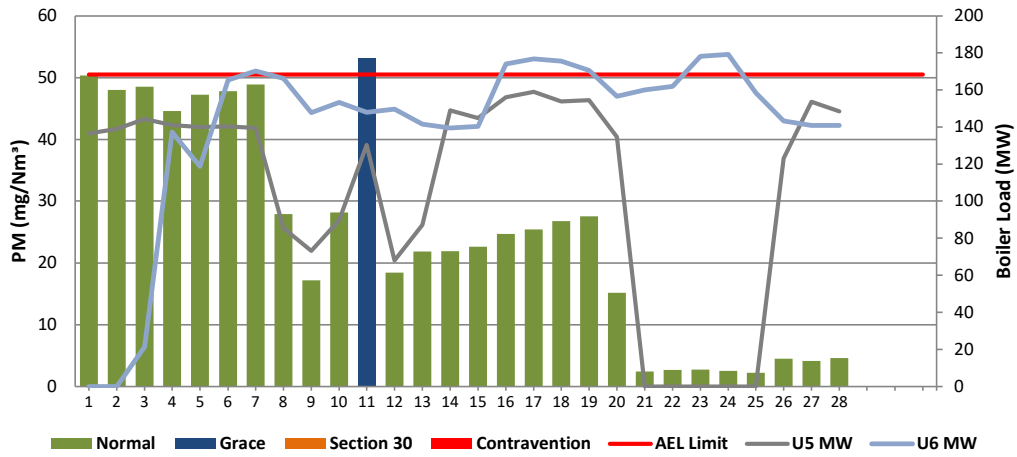


Figure 4: Camden Stack 4 PM Emissions - February 2025

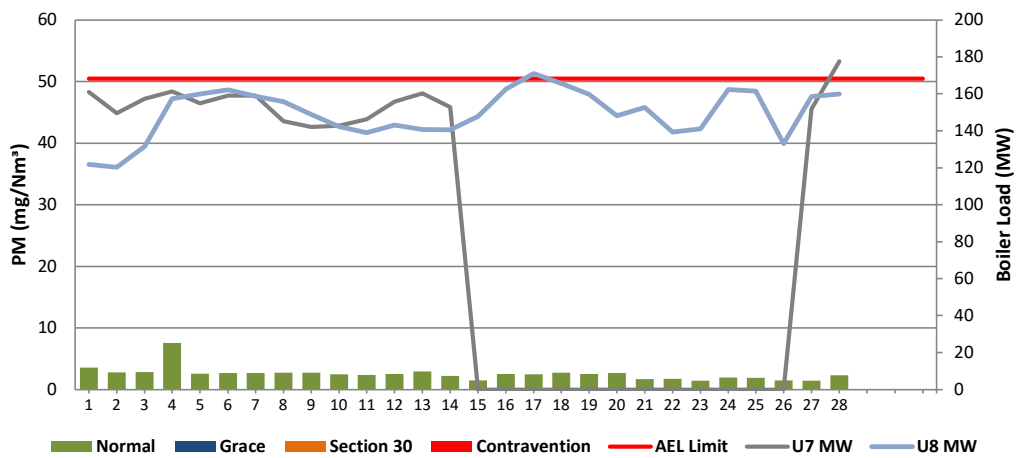


Figure 5: Camden Stack 1 SO₂ Emissions - February 2025

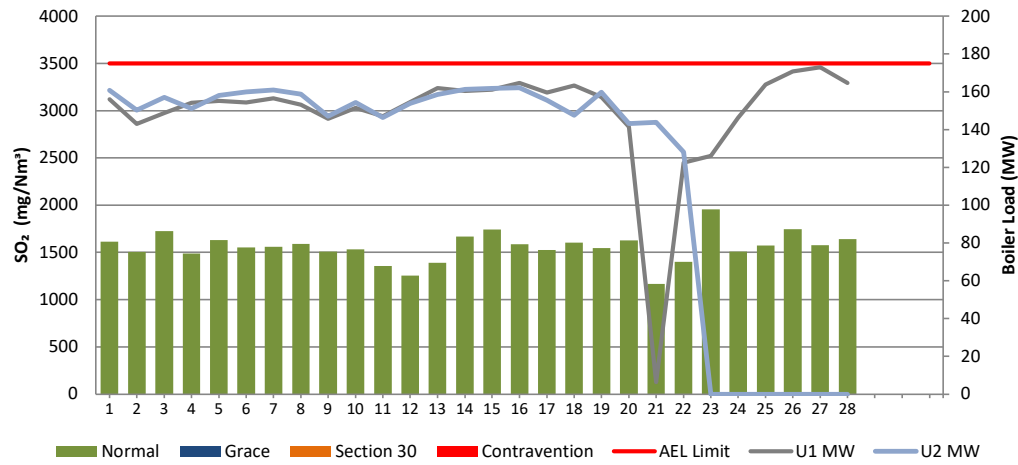


Figure 6: Camden Stack 2 SO₂ Emissions - February 2025

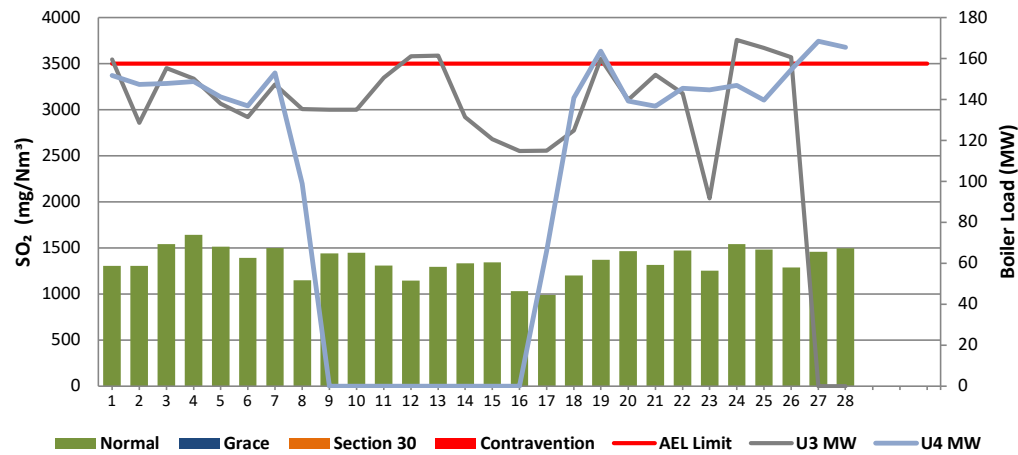


Figure 7: Camden Stack 3 SO₂ Emissions - February 2025

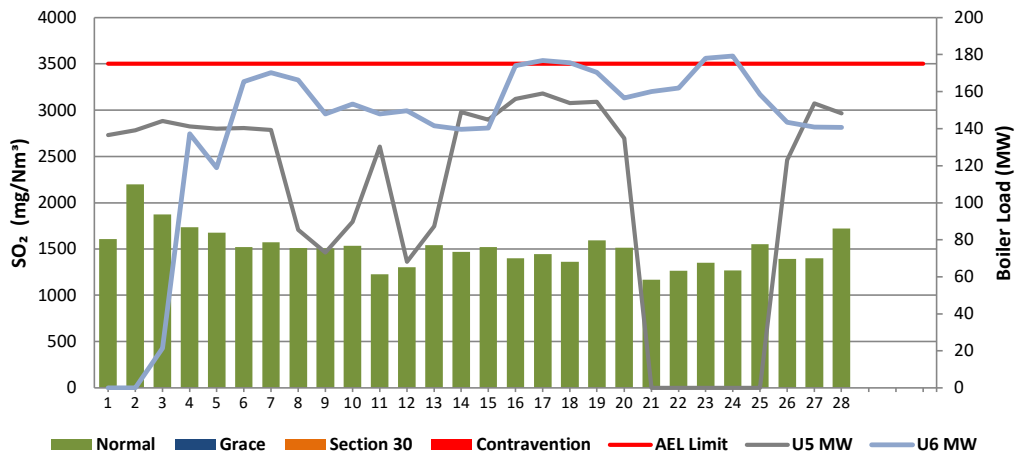


Figure 8: Camden Stack 4 SO₂ Emissions - February 2025

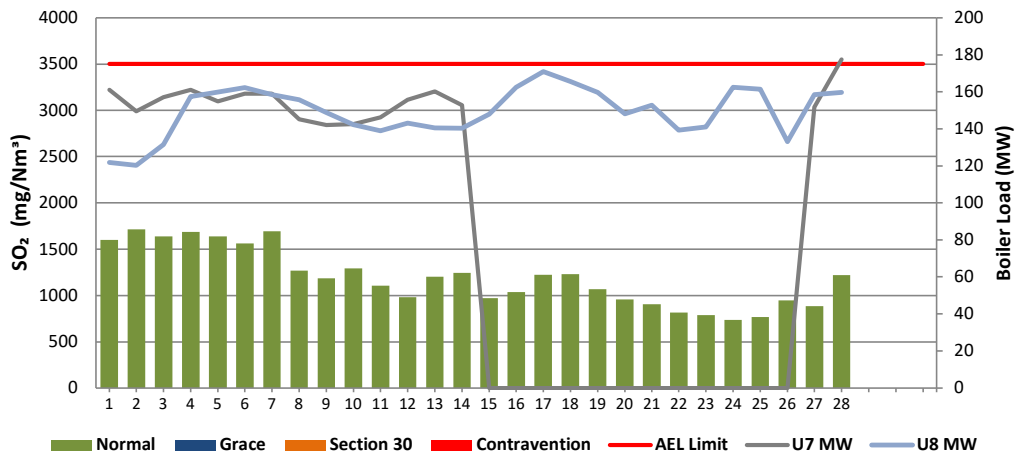


Figure 9: Camden Stack 1 NOx Emissions - February 2025

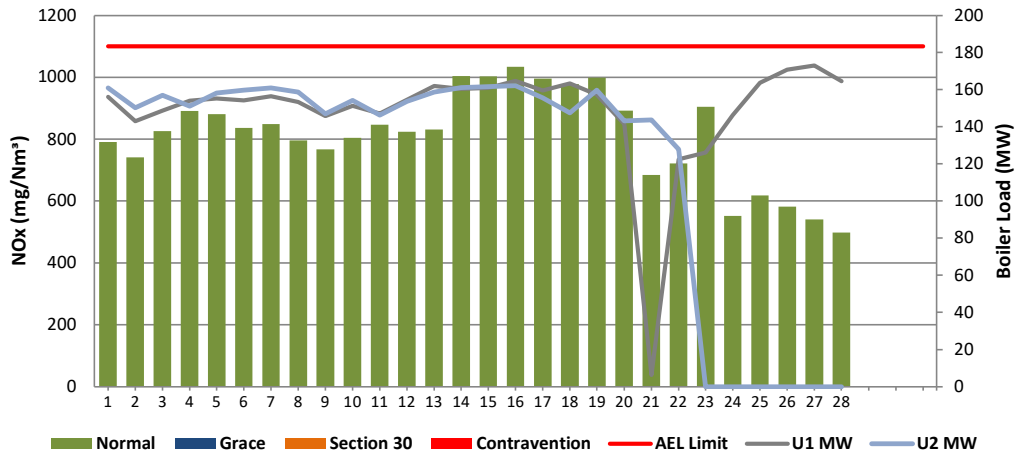


Figure 10: Camden Stack 2 NOx Emissions - February 2025

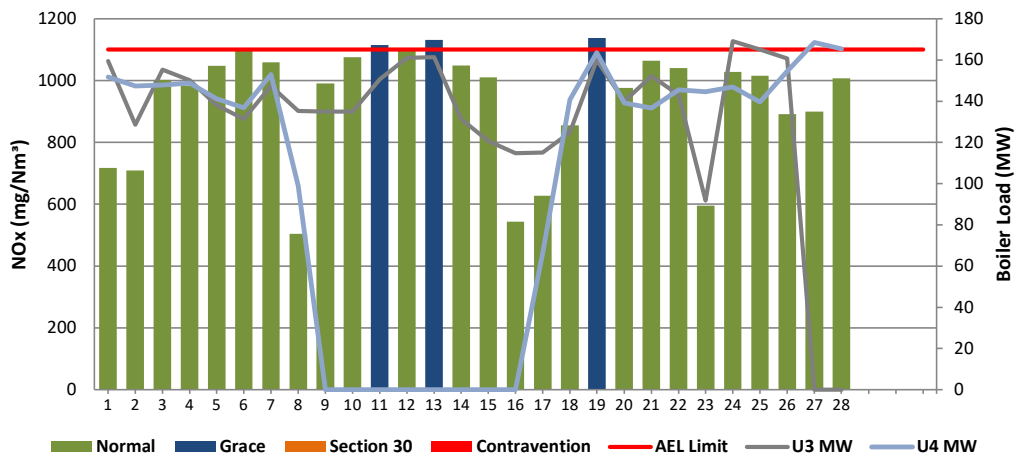


Figure 11: Camden Stack 3 NOx Emissions - February 2025

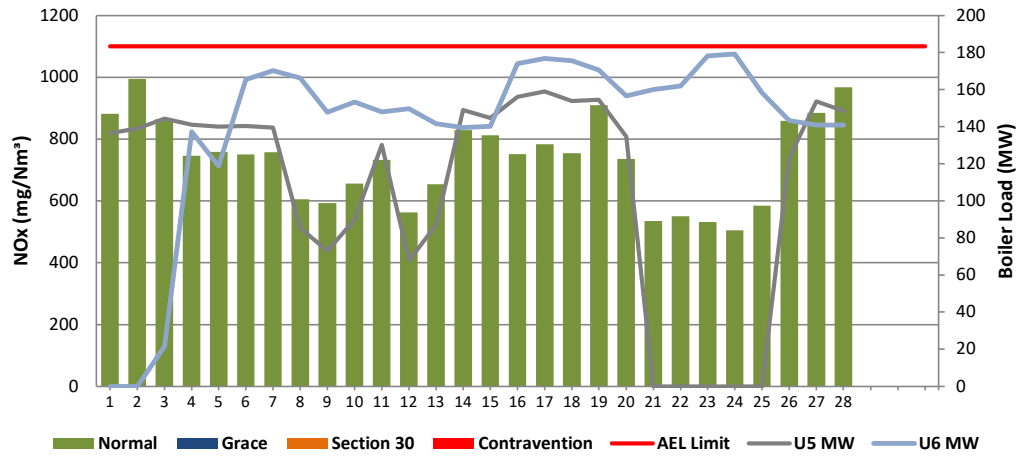
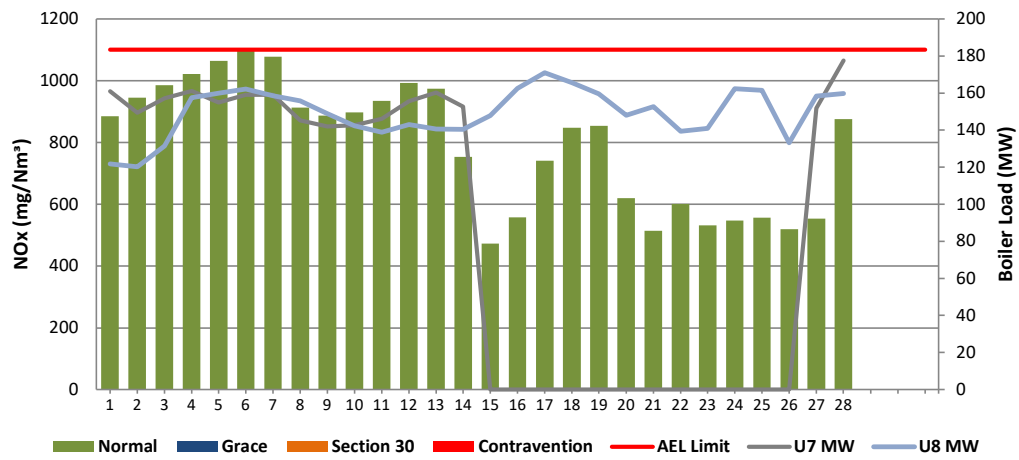


Figure 12: Camden Stack 4 NOx Emissions - February 2025



10 GENERAL / ABNORMALITIES

Unit 1:

Monitor data froze on 2025/02/05 due to Calibrations conducted

Unit 2:

Monitor data froze on 2025/02/05 due to Calibrations conducted

Unit 3:

None

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

20/03/2025
Date


Environmental Manager

20/03/2025
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