

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 Dec-2024
	Coal	Tons	550 000	400 738.00
	Fuel Oil	Tons	6 500	2 846.34
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Dec-2024
	Energy	GWh	1190	693.19
	Ash	Tons	not specified	83 394
	RE PM	kg/MWh	not specified	0.145

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	23.32
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	20.81

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 Dec-2024
Unit 1	Fabric Filter Plant (FFP)	100.000%
Unit 2	Fabric Filter Plant (FFP)	100.000%
Unit 3	Fabric Filter Plant (FFP)	99.997%
Unit 4	Fabric Filter Plant (FFP)	99.998%
Unit 5	Fabric Filter Plant (FFP)	99.998%
Unit 6	Fabric Filter Plant (FFP)	99.998%
Unit 7	Fabric Filter Plant (FFP)	100.000%
Unit 8	Fabric Filter Plant (FFP)	99.999%

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	96.8
Stack 2	100.0	98.9	99.3
Stack 3	98.9	68.5	94.6
Stack 4	100.0	95.3	98.3

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 December-2024

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	1.93	770	419
2	2.39	770	443
3	28.18	660	500
4	25.83	657	491
5	20.44	811	446
6	17.38	896	485
7	2.29	1 017	701
8	2.16	1 072	735
SUM	100.61	6 655	4 219

Table 6.2: Operating days in compliance to PM AEL Limit - December 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	28	0	0	0	0	4.0
Stack 2	29	2	0	0	2	39.4
Stack 3	31	0	0	0	0	24.1
Stack 4	31	0	0	0	0	2.8
SUM	119	2	0	0	2	

Table 6.3: Operating days in compliance to SO₂ AEL Limit - December 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	29	0	0	0	0	1 296.5
Stack 2	31	0	0	0	0	919.0
Stack 3	31	0	0	0	0	1 144.8
Stack 4	31	0	0	0	0	1 052.6
SUM	122	0	0	0	0	

Table 6.4: Operating days in compliance to NO_x AEL Limit - December 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	29	0	0	0	0	710.5
Stack 2	31	0	0	0	0	679.1
Stack 3	31	0	0	0	0	626.5
Stack 4	31	0	0	0	0	723.4
SUM	122	0	0	0	0	

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 - December 2024

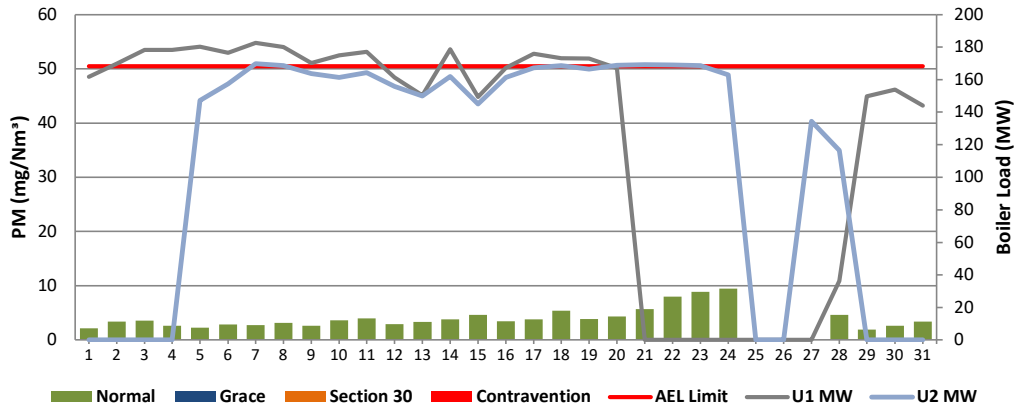


Figure 2: Camden Stack 2 PM Emissions - December 2024

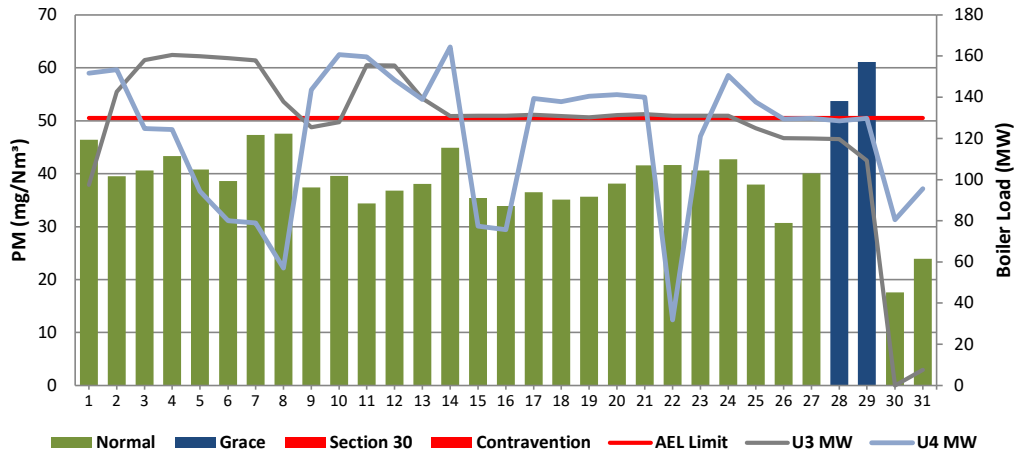


Figure 3: Camden Stack 3 PM Emissions - December 2024

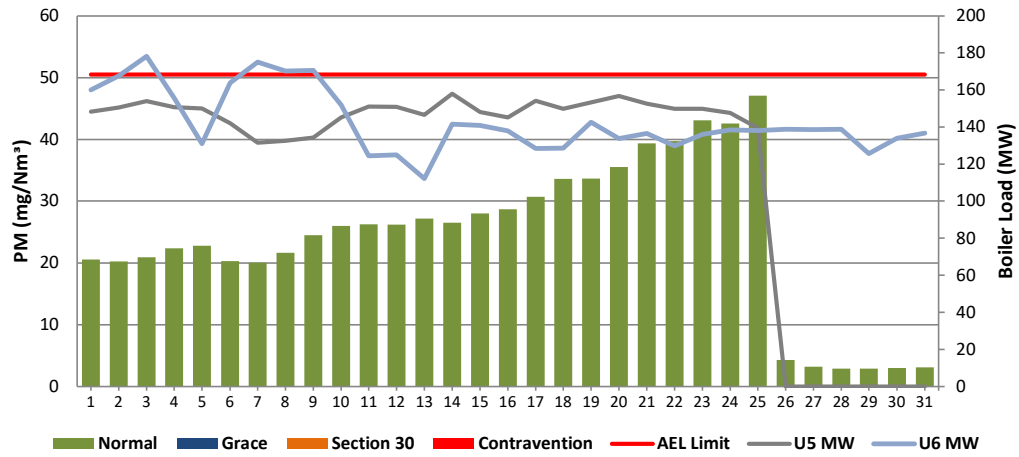


Figure 4: Camden Stack 4 PM Emissions - December 2024

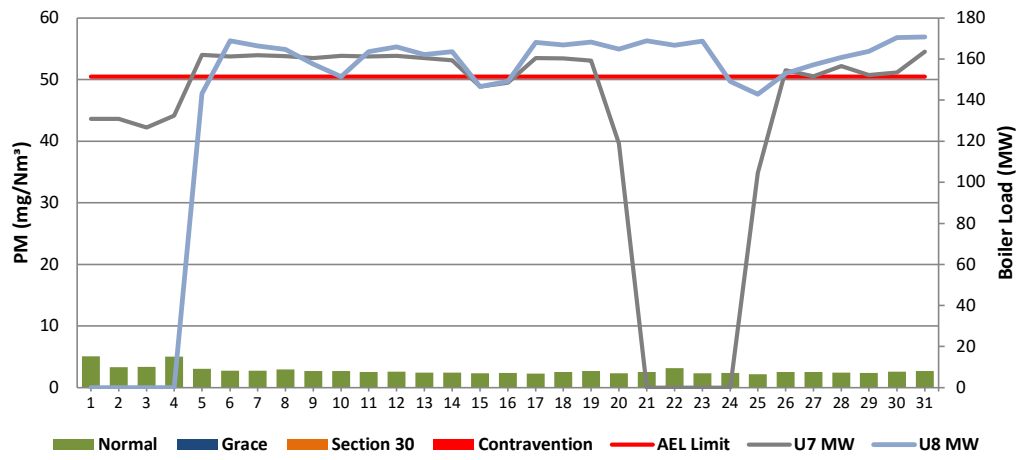


Figure 5: Camden Stack 1 SO₂ Emissions - December 2024

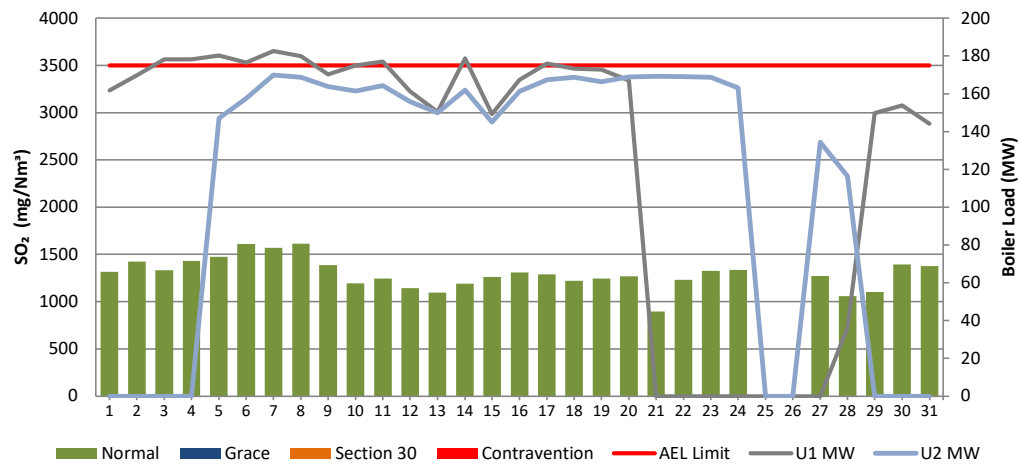


Figure 6: Camden Stack 2 SO₂ Emissions - December 2024

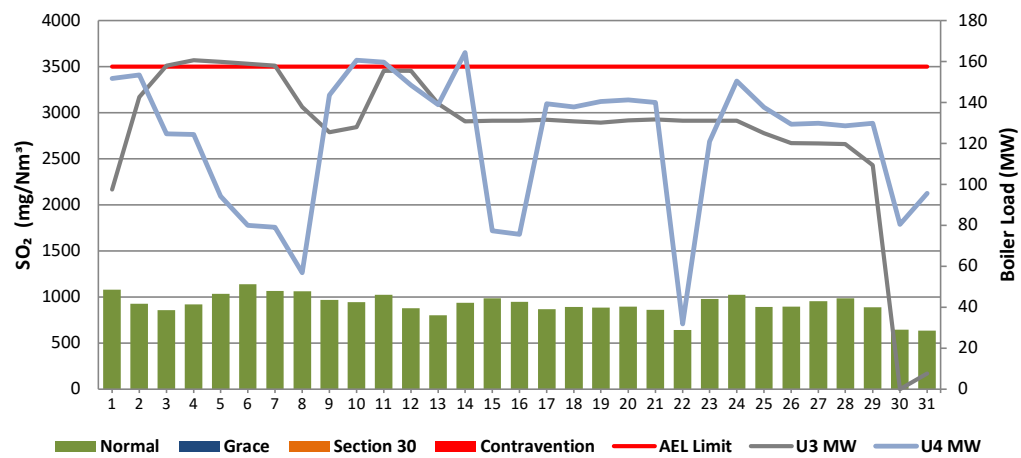


Figure 7: Camden Stack 3 SO₂ Emissions - December 2024

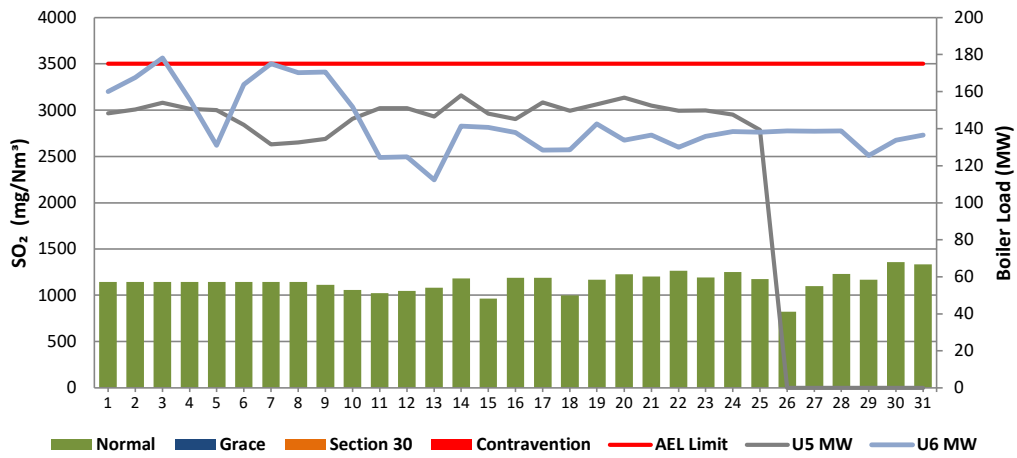


Figure 8: Camden Stack 4 SO₂ Emissions - December 2024

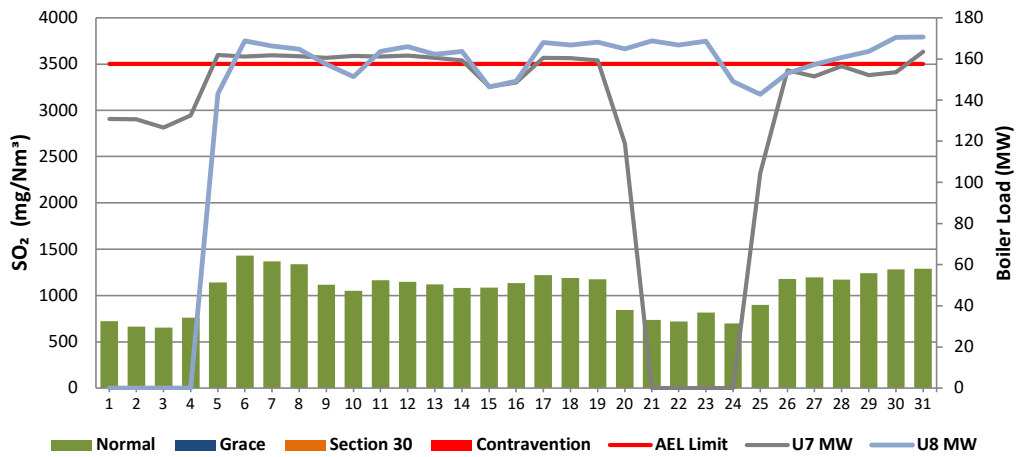


Figure 9: Camden Stack 1 NOx Emissions - December 2024

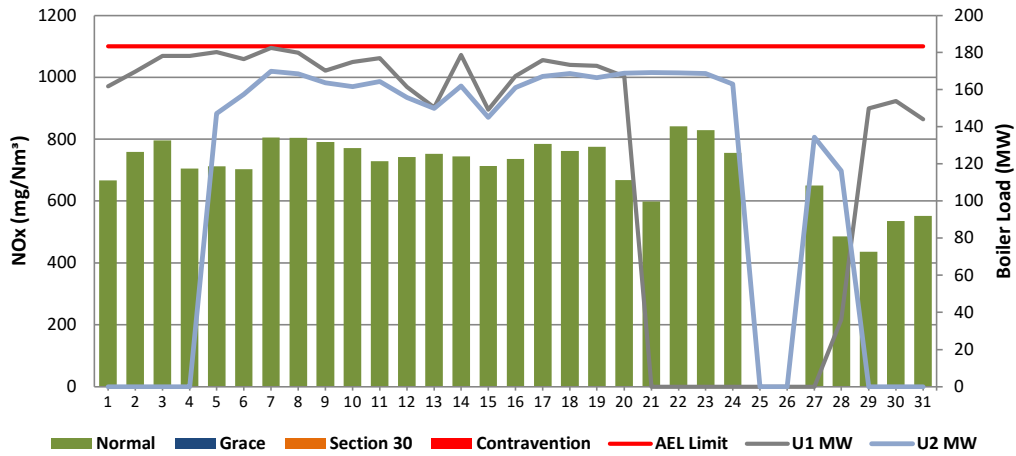


Figure 10: Camden Stack 2 NOx Emissions - December 2024

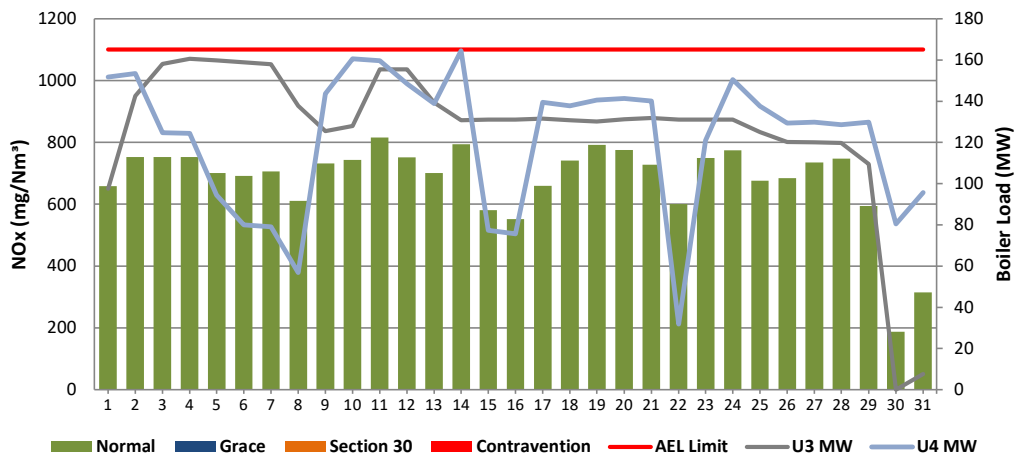


Figure 11: Camden Stack 3 NOx Emissions - December 2024

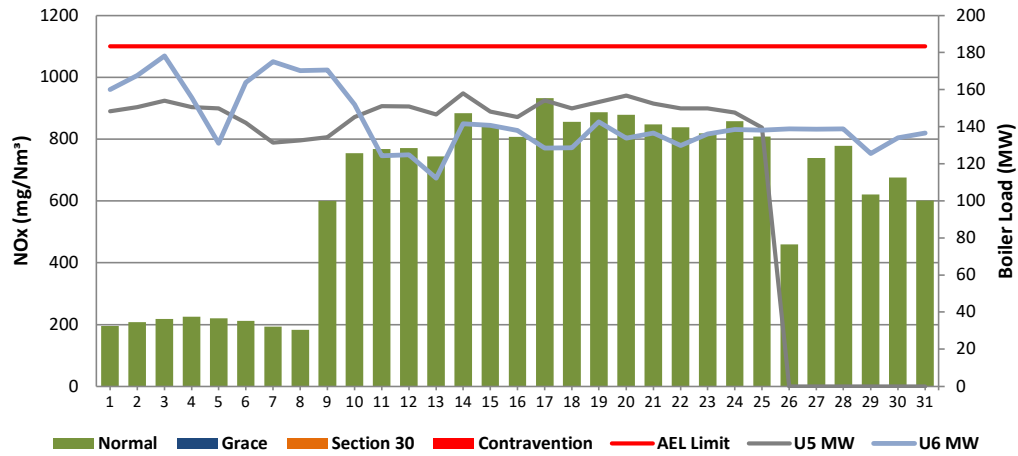
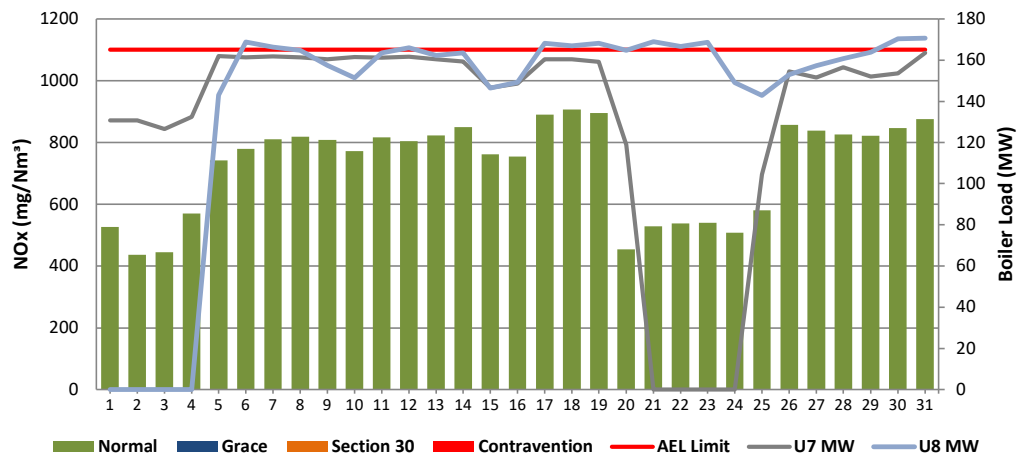


Figure 12: Camden Stack 4 NOx Emissions - December 2024



10 GENERAL / ABNORMALITIES

Unit 1:

None

Unit 2:

None

Unit 3:

None

Unit 4:

None

Unit 5:

None

Unit 6:

None

Unit 7:

None

Unit 8:

None

Engineering Manager	Date	Environmental Manager	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	