

CAMDEN POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License CPS/0012/2019/F03


1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Maximum Permitted Consumption	Actual Consumption Nov-2024
	Coal	Tons	550 000	385 135.00
	Fuel Oil	Tons	6 500	1 297.92
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Nov-2024
	Energy	GWh	1190	675.52
	Ash	Tons	not specified	85 693
	RE PM	kg/MWh	not specified	0.165

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	23.82
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	22.25

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

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	95.3	97.8
Stack 2	100.0	96.0	98.9
Stack 3	98.6	89.2	91.5
Stack 4	100.0	90.0	94.7

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 November-2024

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	2.36	901	519
2	2.48	936	544
3	23.14	625	572
4	26.04	717	639
5	18.87	871	544
6	16.08	734	458
7	15.53	598	450
8	6.96	299	231
SUM	111.47	5 680	3 957

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	30	0	0	0	0	3.4
Stack 2	30	0	0	0	0	34.4
Stack 3	30	0	0	0	0	23.9
Stack 4	21	0	0	0	0	26.3
SUM	111	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	30	0	0	0	0	1 213.6
Stack 2	30	0	0	0	0	920.8
Stack 3	30	0	0	0	0	1 091.7
Stack 4	22	0	0	0	0	906.7
SUM	112	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	30	0	0	0	0	699.6
Stack 2	30	0	0	0	0	819.4
Stack 3	30	0	0	0	0	663.2
Stack 4	22	0	0	0	0	676.6
SUM	112	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 - November 2024

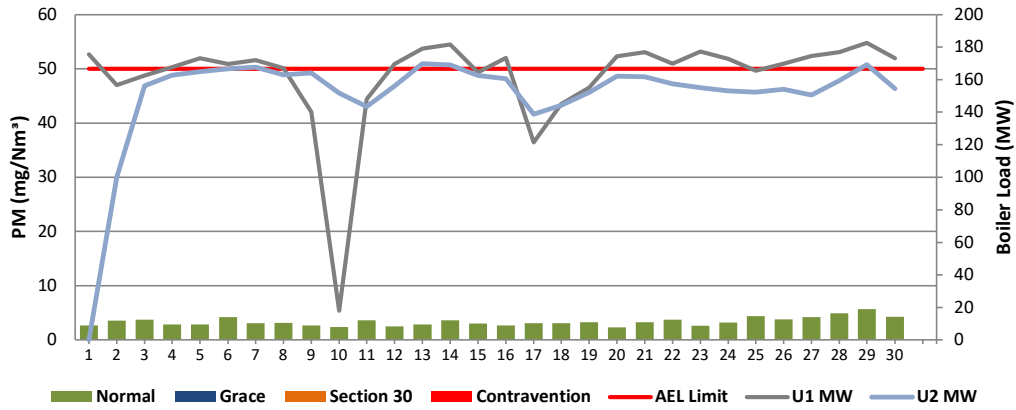


Figure 2: Camden Stack 2 PM Emissions - November 2024

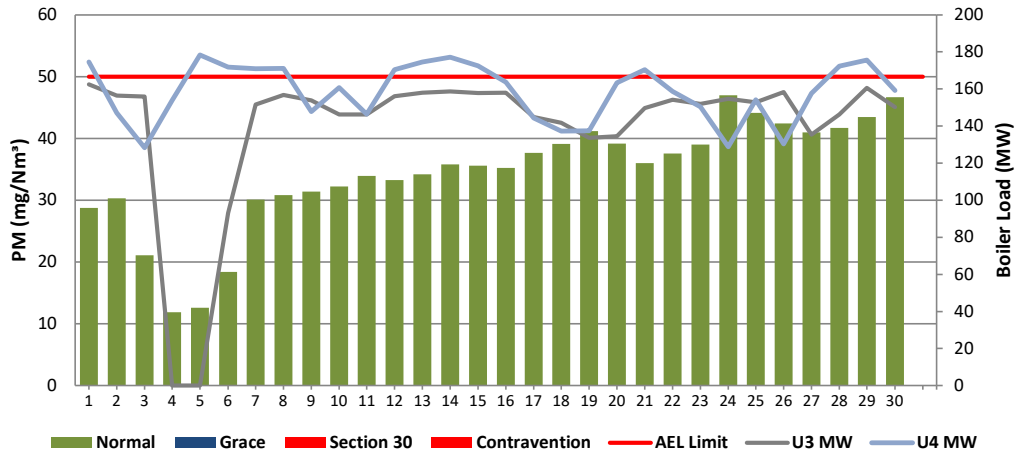


Figure 3: Camden Stack 3 PM Emissions - November 2024

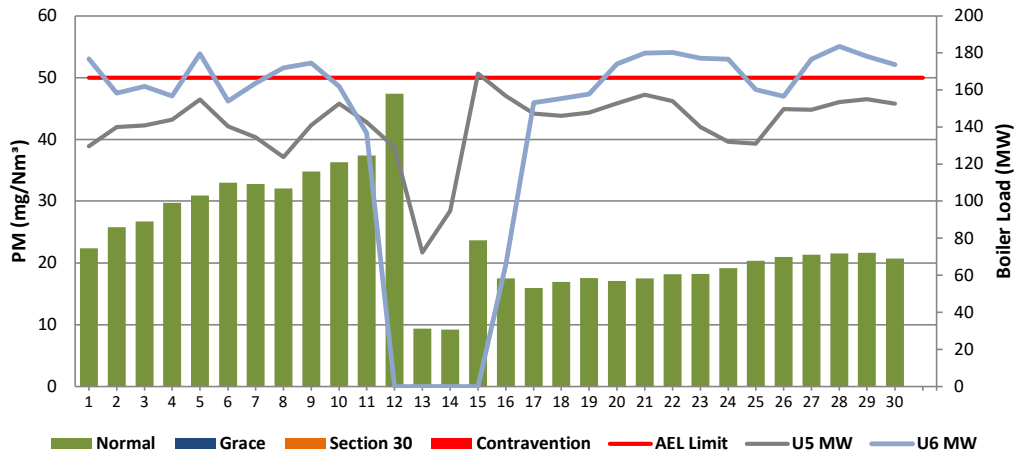


Figure 4: Camden Stack 4 PM Emissions - November 2024

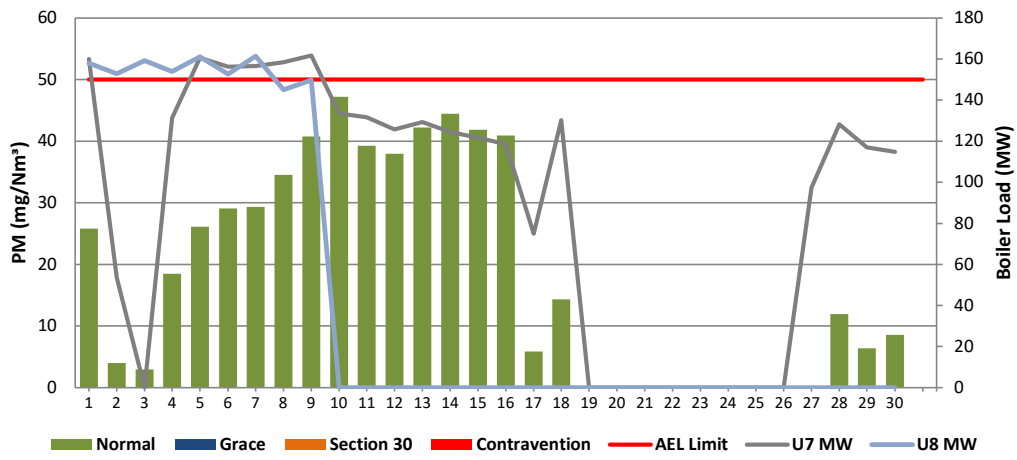


Figure 5: Camden Stack 1 SO₂ Emissions - November 2024

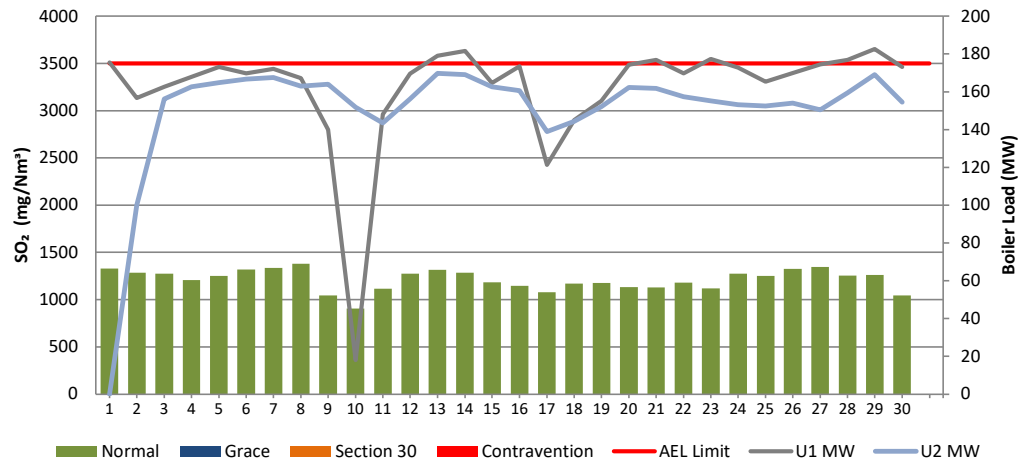


Figure 6: Camden Stack 2 SO₂ Emissions - November 2024

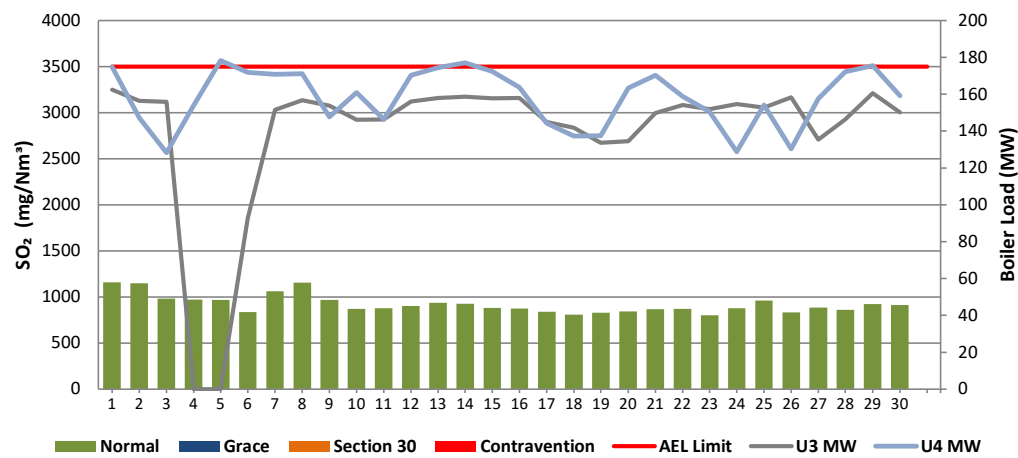


Figure 7: Camden Stack 3 SO₂ Emissions - November 2024

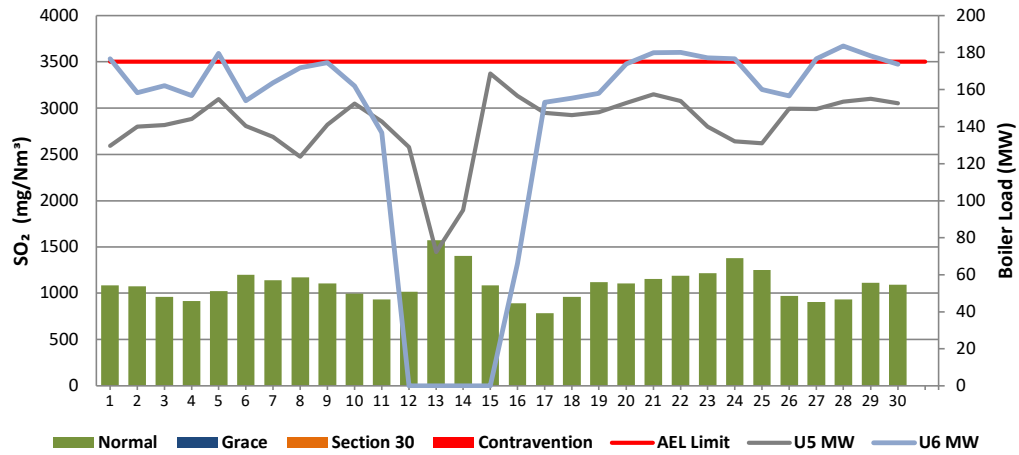


Figure 8: Camden Stack 4 SO₂ Emissions - November 2024

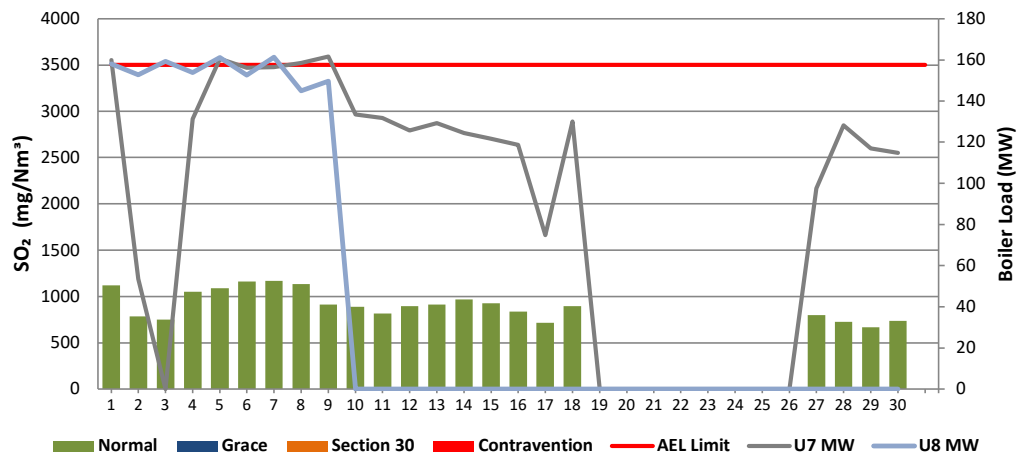


Figure 9: Camden Stack 1 NOx Emissions - November 2024

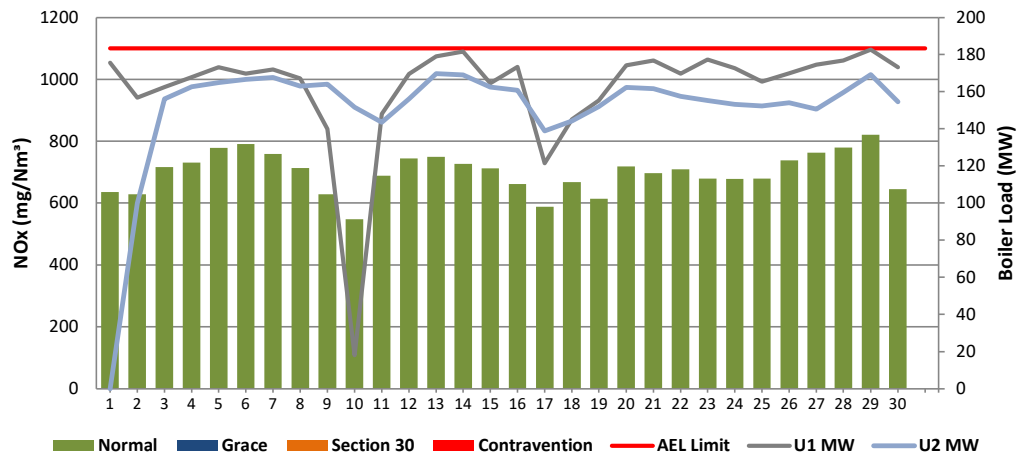


Figure 10: Camden Stack 2 NOx Emissions - November 2024

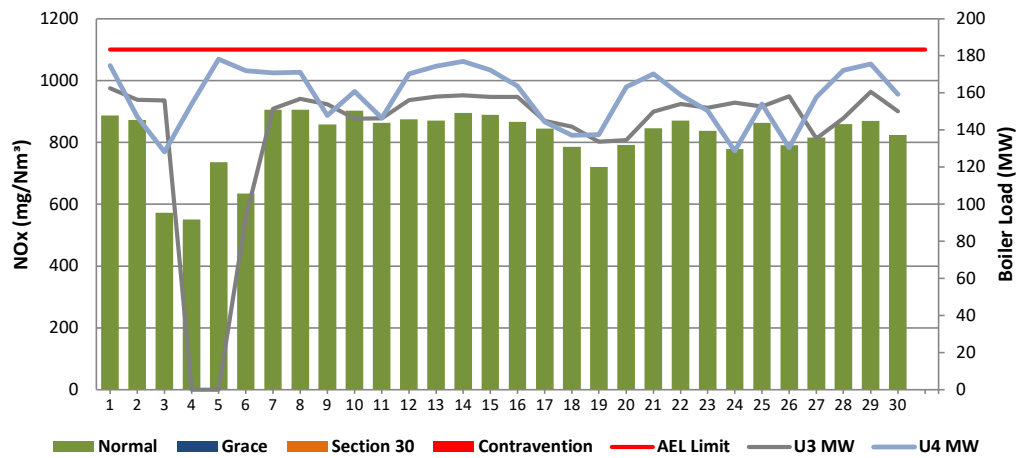


Figure 11: Camden Stack 3 NOx Emissions - November 2024

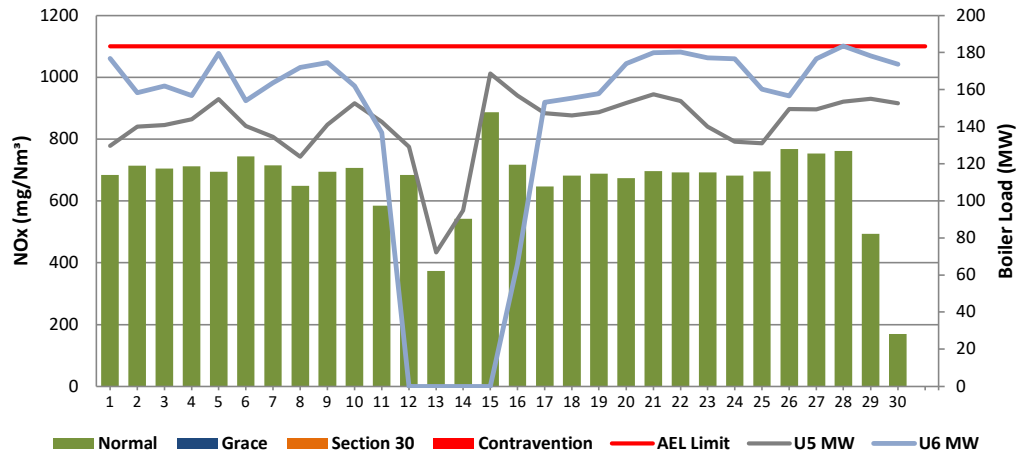
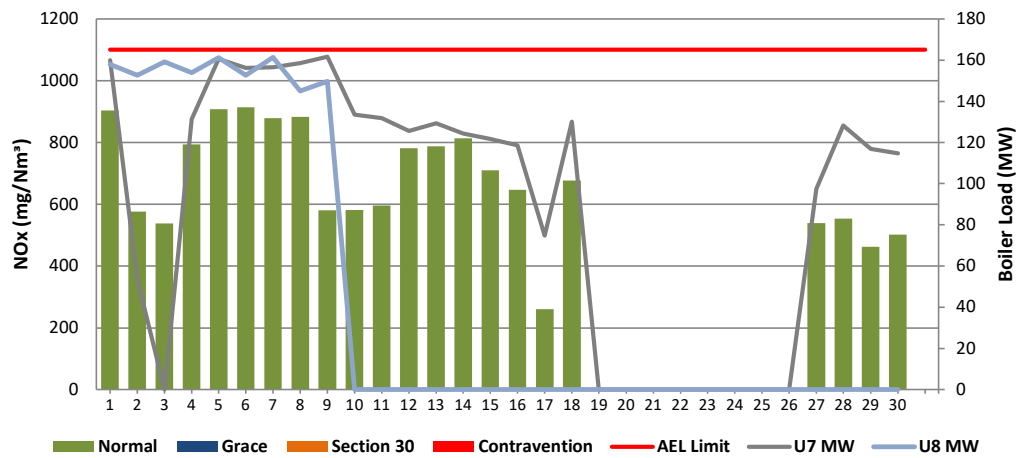


Figure 12: Camden Stack 4 NOx Emissions - November 2024



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

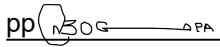
Comments on Use of averages for O2 and CO2 from QAL2 tests as per previous months



Engineering Manager

19/12/2024

Date



Environmental Manager

19/12/2024

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
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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