

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 Jul-2022
	Coal	Tons	550 000	303 762.20
	Fuel Oil	Tons	5 000	3 645.00
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Jul-2022
	Energy	GWh	1600	636.90
	Ash	Tons	not specified	67 405
	RE PM	kg/MWh	not specified	0.217

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	22.87
Sulphur Content	%	< 2	0.90
Ash Content	%	25 to 35	22.19

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM	SOx	NOx
Stack 1	100	3500	1100
Stack 2	100	3500	1100
Stack 3	100	3500	1100
Stack 4	100	3500	1100

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency Jul-2022
Unit 1	Fabric Filter Plant (FFP)	99.6%
Unit 2	Fabric Filter Plant (FFP)	99.61%
Unit 3	Fabric Filter Plant (FFP)	99.51%
Unit 4	Fabric Filter Plant (FFP)	99.87%
Unit 5	Fabric Filter Plant (FFP)	99.70%
Unit 6	Fabric Filter Plant (FFP)	99.96%
Unit 7	Fabric Filter Plant (FFP)	99.97%
Unit 8	Fabric Filter Plant (FFP)	99.95%

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

5 MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO	CO ₂	O ₂
Stack 1	100.0	98.7	99.3	0.0	0.0
Stack 2	100.0	97.7	99.3	0.0	0.0
Stack 3	100.0	97.2	99.8	0.0	0.0
Stack 4	100.0	98.8	98.8	0.0	0.0

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 July-2022

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)	CO ₂ (tons)
1	27.4	1 255	567	130 247
2	32.3	1 451	669	156 899
3	37.9	1 077	793	141 914
4	11.1	457	290	54 777
5	20.9	1 072	675	128 644
6	3.2	282	156	32 948
7	2.1	851	517	111 101
8	3.3	1 165	682	160 731
SUM	138.2	7 609	4 348	917 261

Table 6.2: Operating days in compliance to PM AEL Limit - July 2022

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	31	0	0	0	0	38.7
Stack 2	28	0	0	0	0	68.7
Stack 3	29	0	0	0	0	30.3
Stack 4	29	0	0	0	0	4.1
SUM	117	0	0	0	0	

Table 6.3: Operating days in compliance to SOx AEL Limit - July 2022

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SOx (mg/Nm³)
Stack 1	31	0	0	0	0	1 739.1
Stack 2	31	0	0	0	0	1 557.8
Stack 3	31	0	0	0	0	1 562.8
Stack 4	30	0	0	0	0	1 381.1
SUM	123	0	0	0	0	

Table 6.4: Operating days in compliance to NOx AEL Limit - July 2022

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Stack 1	31	0	0	0	0	802.6
Stack 2	13	0	0	18	18	1 135.8
Stack 3	25	0	0	6	6	955.5
Stack 4	30	0	0	0	0	810.8
SUM	99	0	0	24	24	

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 - July 2022

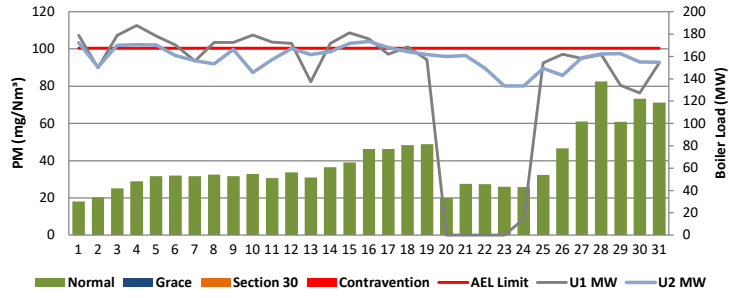


Figure 2: Camden Stack 2 PM Emissions - July 2022

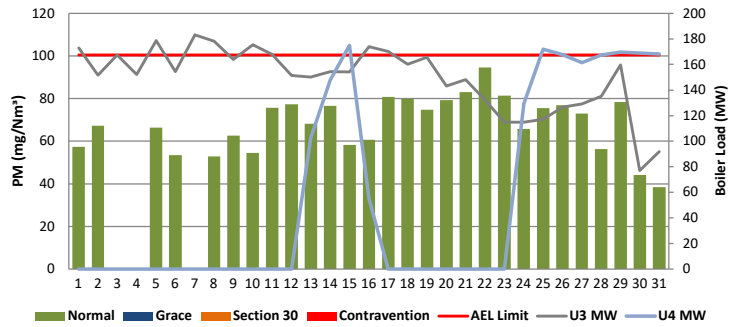


Figure 3: Camden Stack 3 PM Emissions - July 2022

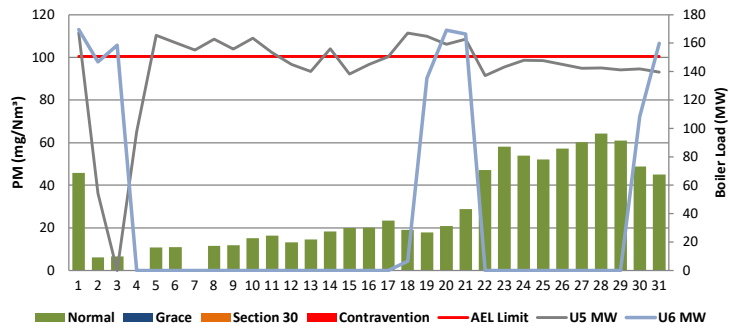


Figure 4: Camden Stack 4 PM Emissions - July 2022

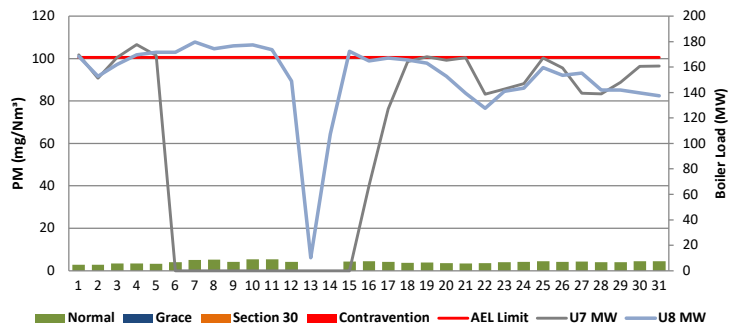


Figure 5: Camden Stack 1 SOx Emissions - July 2022

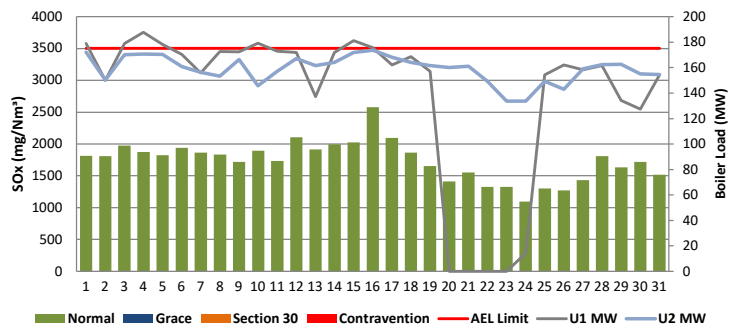


Figure 6: Camden Stack 2 SOx Emissions - July 2022

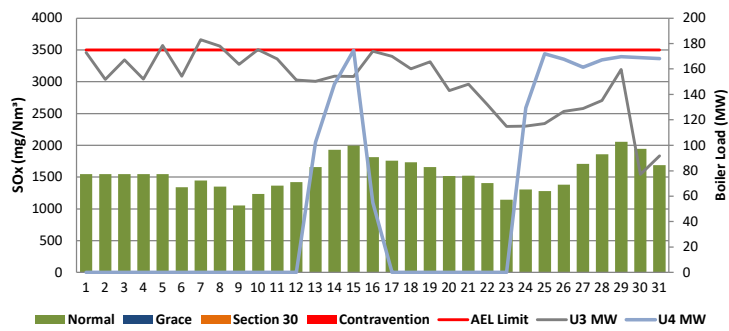


Figure 7: Camden Stack 3 SOx Emissions - July 2022

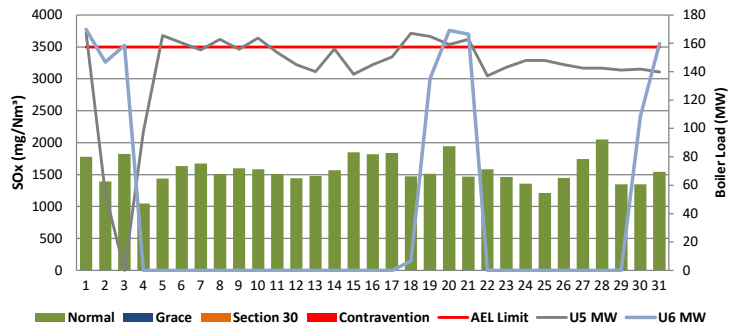


Figure 8: Camden Stack 4 SOx Emissions - July 2022

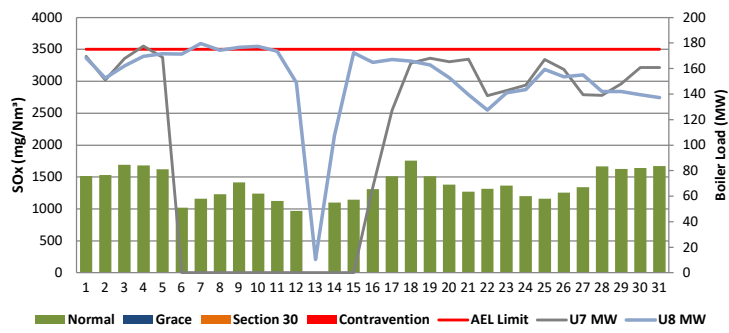


Figure 9: Camden Stack 1 NOx Emissions - July 2022

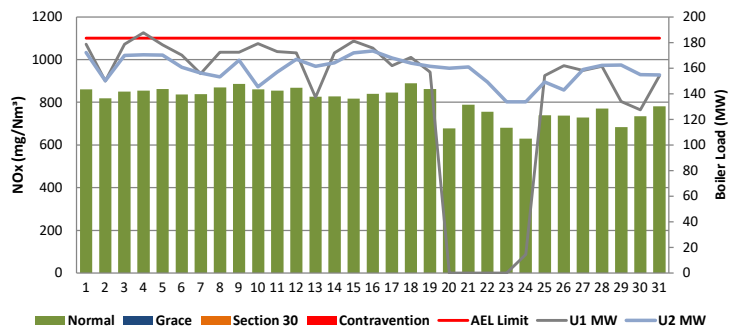


Figure 10: Camden Stack 2 NOx Emissions - July 2022

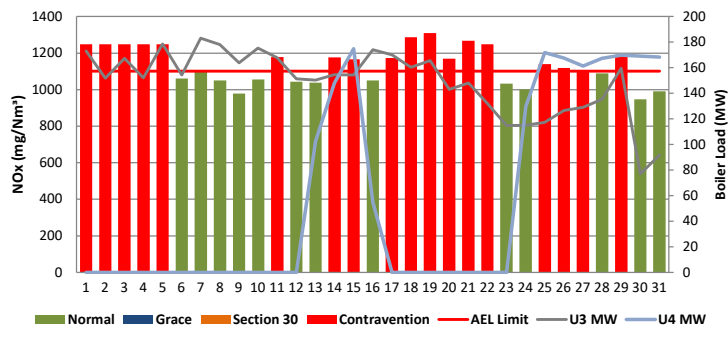


Figure 11: Camden Stack 3 NOx Emissions - July 2022

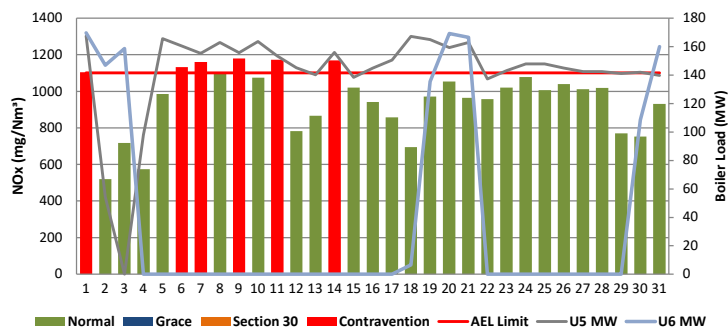
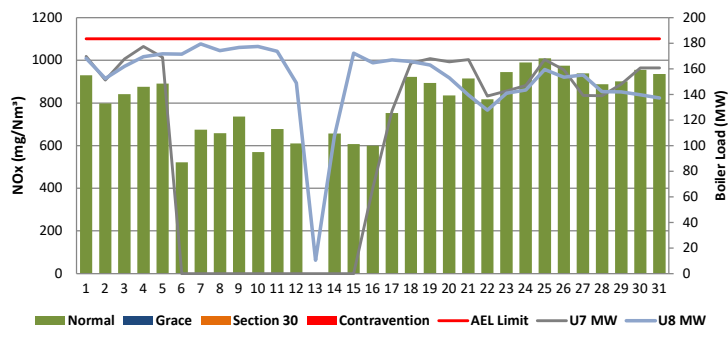


Figure 12: Camden Stack 4 NOx Emissions - July 2022



10 GENERAL / ABNORMALITIES

Unit 1:

None

Unit 2:

None

Unit 3:

None

Unit 4:

None

Unit 5:

None

Unit 6:

None

Unit 7:

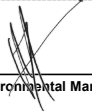
None

Unit 8:

None

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

Stack 2 and Stack 3 experienced high Nox reading for the month of July 2022, Camden is still investigating and will provide feedback as soon as the investigation is finalised.

	22/08/2022		22/08/2022
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

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D Herbst
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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