

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 Oct-2023
	Coal	Tons	550 000	314 354.00
	Fuel Oil	Tons	5 000	4 296.64
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Oct-2023
	Energy	GWh	1600	545.09
	Ash	Tons	not specified	75 131
	RE PM	kg/MWh	not specified	0.364

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	23.31
Sulphur Content	%	< 2	0.90
Ash Content	%	25 to 35	23.90

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM	SO ₂	NO _x
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 Oct-2023
Unit 1	Fabric Filter Plant (FFP)	Off
Unit 2	Fabric Filter Plant (FFP)	99.996%
Unit 3	Fabric Filter Plant (FFP)	99.996%
Unit 4	Fabric Filter Plant (FFP)	99.996%
Unit 5	Fabric Filter Plant (FFP)	99.997%
Unit 6	Fabric Filter Plant (FFP)	99.998%
Unit 7	Fabric Filter Plant (FFP)	99.999%
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	99.8	100.0
Stack 2	100.0	100.0	100.0
Stack 3	100.0	99.7	99.9
Stack 4	100.0	99.5	100.0

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 October-2023

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	Off	Off	Off
2	40.29	870	380
3	45.61	901	567
4	52.41	1 085	671
5	41.68	1 062	555
6	6.71	284	135
7	6.10	878	457
8	5.49	809	403
SUM	198.28	5 888	3 167

Table 6.2: Operating days in compliance to PM AEL Limit - October 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	25	0	0	0	0	69.8
Stack 2	31	0	0	0	0	75.2
Stack 3	29	1	0	0	1	57.1
Stack 4	31	0	0	0	0	8.7
SUM	116	1	0	0	1	

Table 6.3: Operating days in compliance to SO₂ AEL Limit - October 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	26	0	0	0	0	1 340.6
Stack 2	31	0	0	0	0	1 424.3
Stack 3	31	0	0	0	0	1 442.9
Stack 4	31	0	0	0	0	1 162.1
SUM	119	0	0	0	0	

Table 6.4: Operating days in compliance to NO_x AEL Limit - October 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	26	0	0	0	0	580.5
Stack 2	31	0	0	0	0	881.8
Stack 3	31	0	0	0	0	730.3
Stack 4	31	0	0	0	0	599.6
SUM	119	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 - October 2023

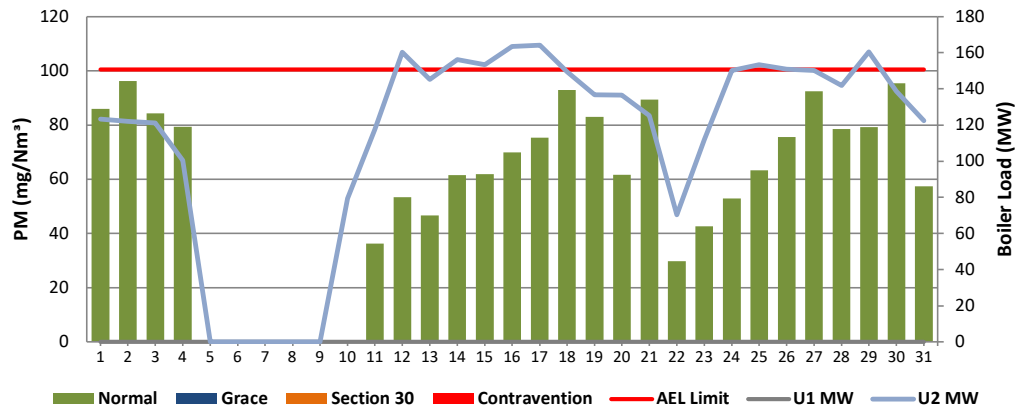


Figure 2: Camden Stack 2 PM Emissions - October 2023

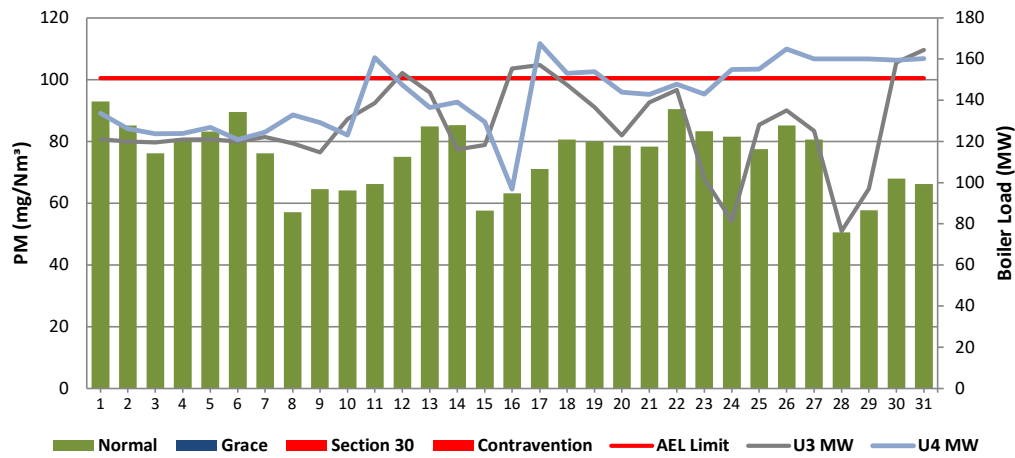


Figure 3: Camden Stack 3 PM Emissions - October 2023

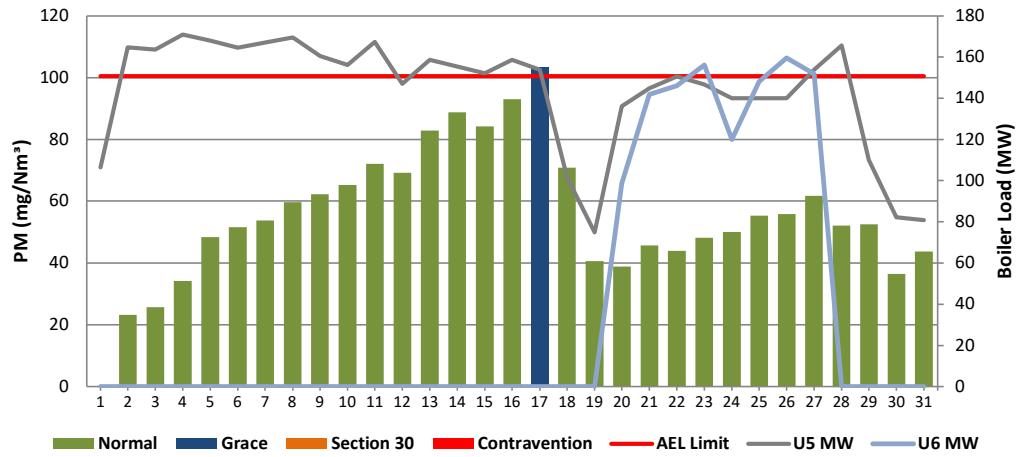


Figure 4: Camden Stack 4 PM Emissions - October 2023

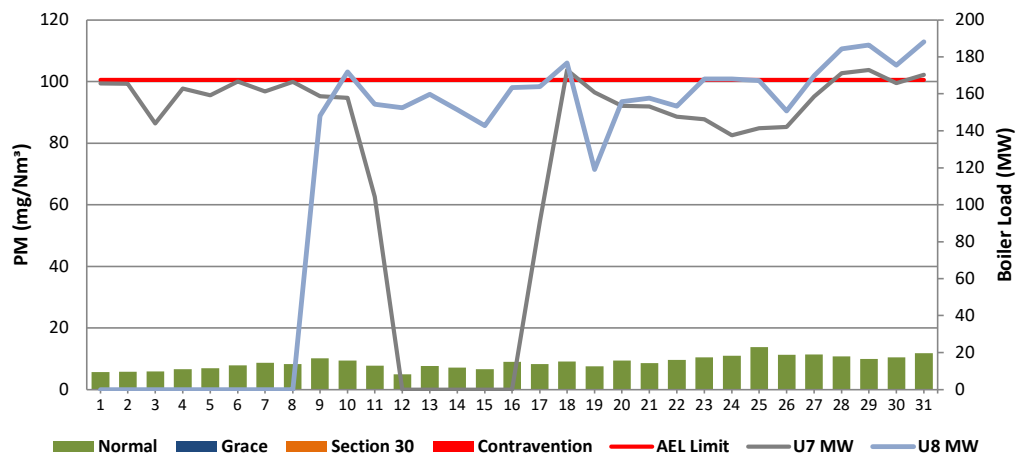


Figure 5: Camden Stack 1 SO₂ Emissions - October 2023

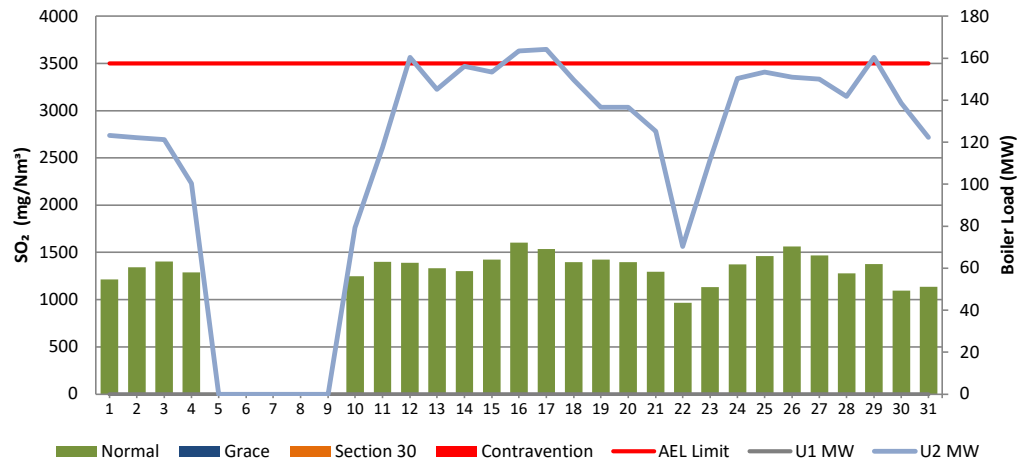


Figure 6: Camden Stack 2 SO₂ Emissions - October 2023

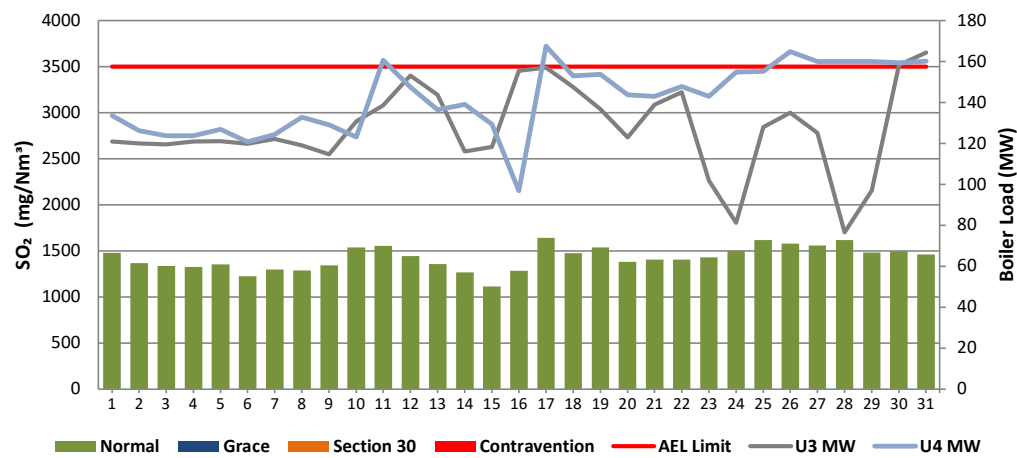


Figure 7: Camden Stack 3 SO₂ Emissions - October 2023

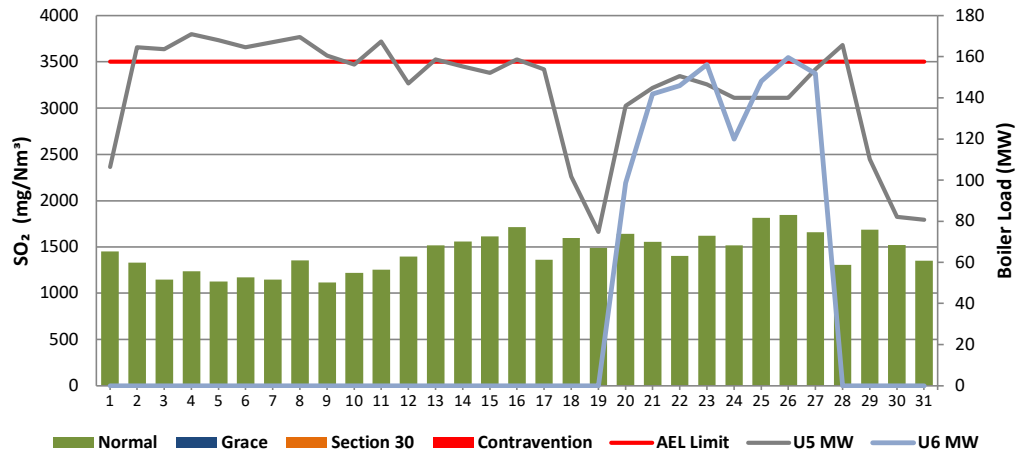


Figure 8: Camden Stack 4 SO₂ Emissions - October 2023

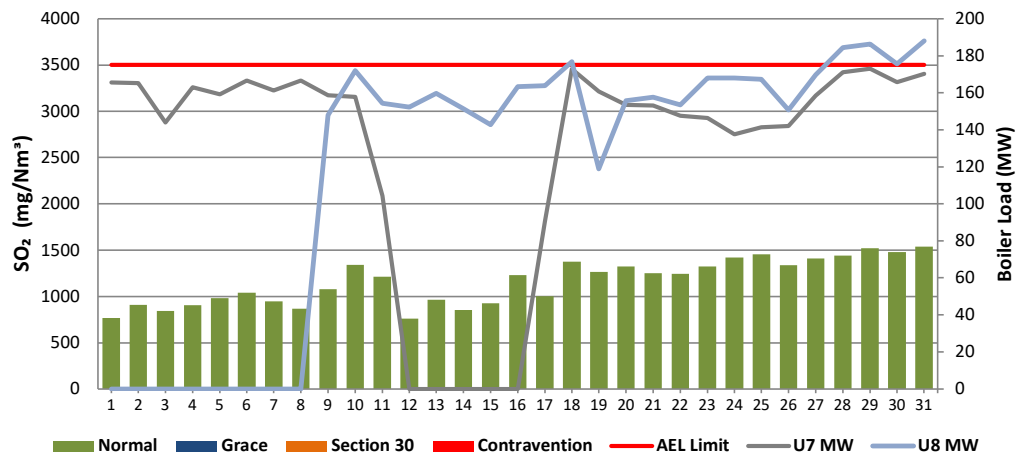


Figure 9: Camden Stack 1 NOx Emissions - October 2023

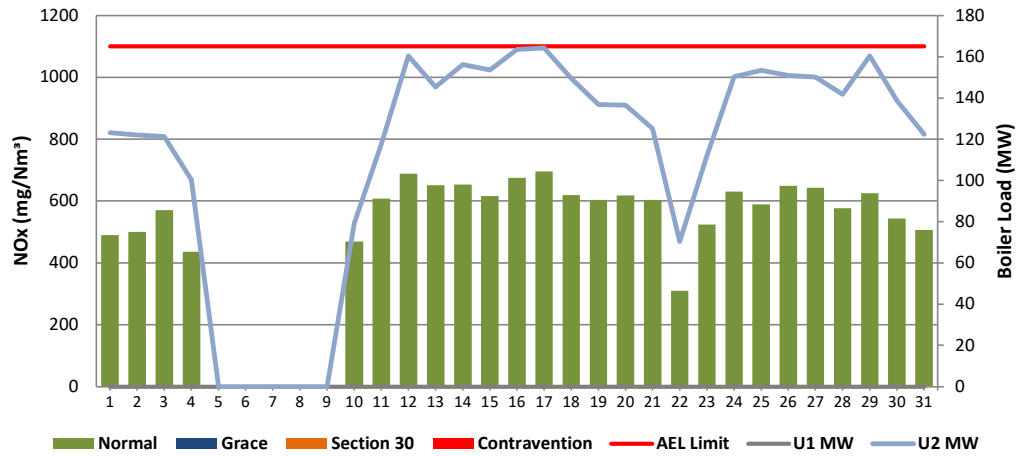


Figure 10: Camden Stack 2 NOx Emissions - October 2023

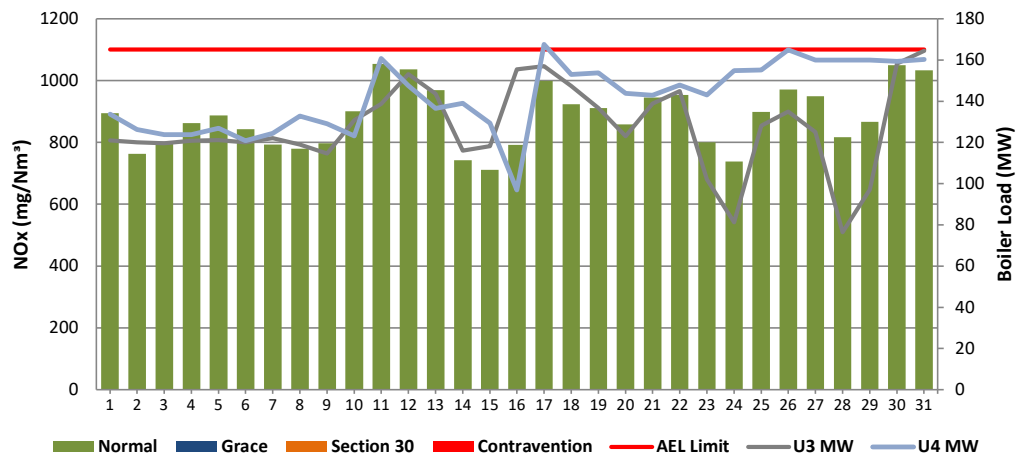


Figure 11: Camden Stack 3 NOx Emissions - October 2023

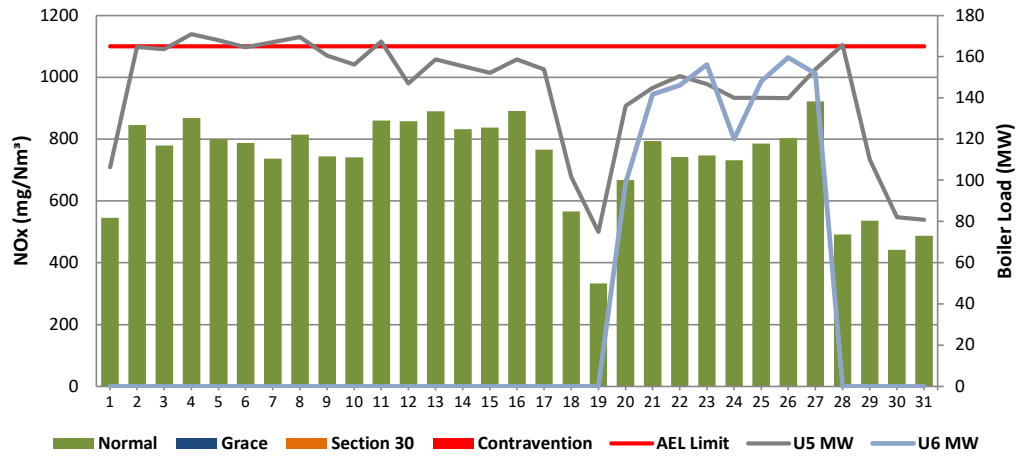
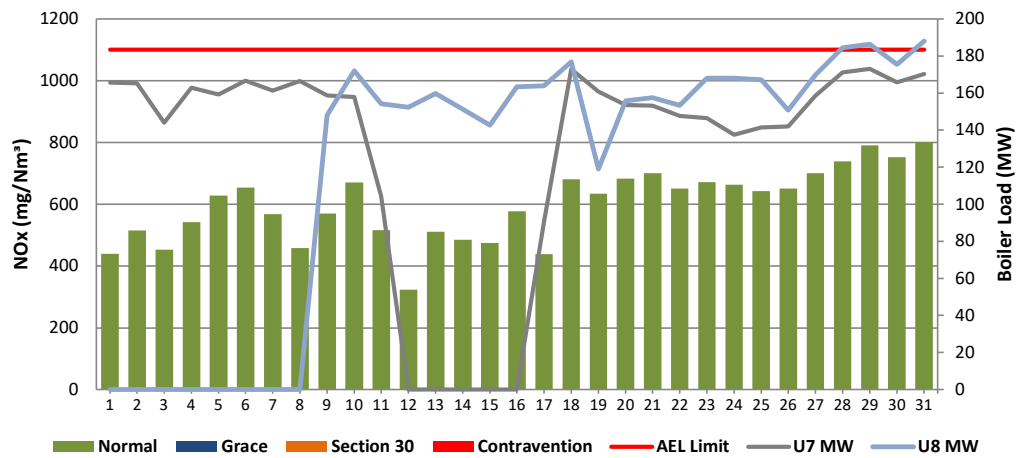


Figure 12: Camden Stack 4 NOx Emissions - October 2023



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:

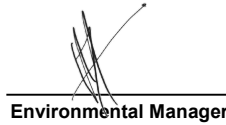
None

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


Engineering Manager

21-11-2023

Date


Environmental Manager

21/11/2023

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
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