MARCH 2025

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 Mar-2025
	Coal	Tons	550 000	375 013.00
	Fuel Oil	Tons	6 500	1 422.20
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Mar-2025
	Energy	GWh	1190	642.09
	Ash	Tons	200 000	79 503
	RE PM	kg/MWh	not specified	0.081

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	23.20
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	21.20

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM	SO_2	NOx
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 Mar-2025
Unit 1	*Fabric Filter Plant (FFP)*	100.000%
Unit 2	*Fabric Filter Plant (FFP)*	99.999%
Unit 3	*Fabric Filter Plant (FFP)*	99.998%
Unit 4	*Fabric Filter Plant (FFP)*	99.999%
Unit 5	*Fabric Filter Plant (FFP)*	99.999%
Unit 6	*Fabric Filter Plant (FFP)*	100.000%
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	*100.0*	*91.4*	*94.8*
Stack 2	*100.0*	*92.9*	*97.6*
Stack 3	*100.0*	*92.9*	*95.8*
Stack 4	*100.0*	*97.8*	*99.2*

Note: NOx emissions is measured as NO in PPM. Final NOx value is expressed as total NO_2

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for the month of March-2025

Associated Unit/Stack	PM (tons)	SO_2 (tons)	NO_X (tons)
1	0.17	79	35
2	10.21	1 057	574
3	11.29	720	487
4	12.87	1 142	744
5	5.77	1 121	595
6	4.52	1 189	577
7	3.53	1 455	1 034
8	3.46	1 426	1 011
SUM	51.82	8 188	5 055

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	27	0	0	0	0	15.1
Stack 2	30	0	0	0	0	18.3
Stack 3	31	0	0	0	0	7.7
Stack 4	31	0	0	0	0	3.4
SUM	**119**	**0**	**0**	**0**	**0**	

Table 6.3: Operating days in compliance to SO_2 AEL Limit - March 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO_2 (mg/Nm³)
Stack 1	28	0	0	0	0	1 542.5
Stack 2	31	0	0	0	0	1 444.7
Stack 3	31	0	0	0	0	1 661.5
Stack 4	31	0	0	0	0	1 314.4
SUM	**121**	**0**	**0**	**0**	**0**	

Table 6.4: Operating days in compliance to NOx AEL Limit - March 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Stack 1	28	0	0	0	0	824.0
Stack 2	26	2	0	3	5	933.2
Stack 3	31	0	0	0	0	826.1
Stack 4	31	0	0	0	0	931.5
SUM	**116**	**2**	**0**	**3**	**5**	

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

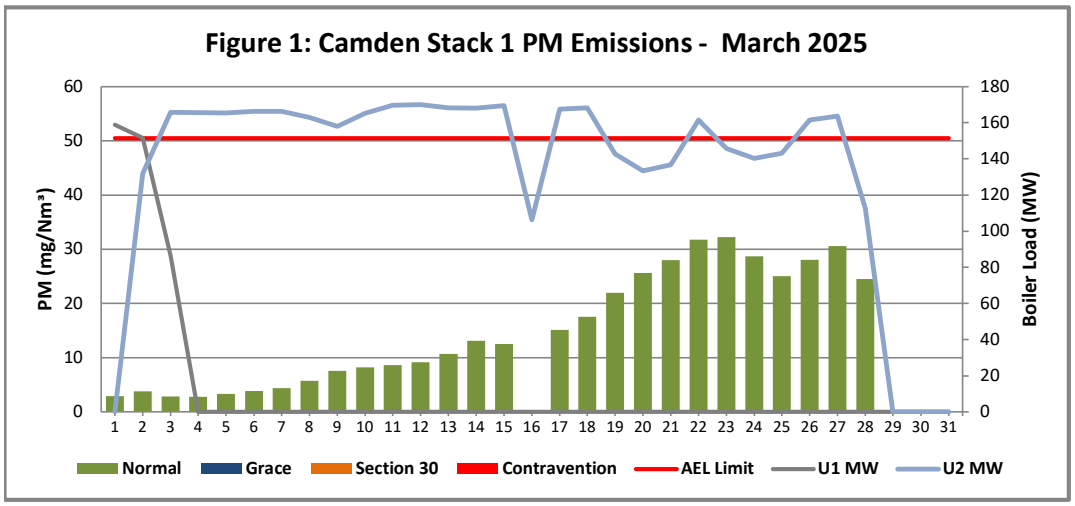
Figure 1: Camden Stack 1 PM Emissions - March 2025
PM (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U1 MW
U2 MW

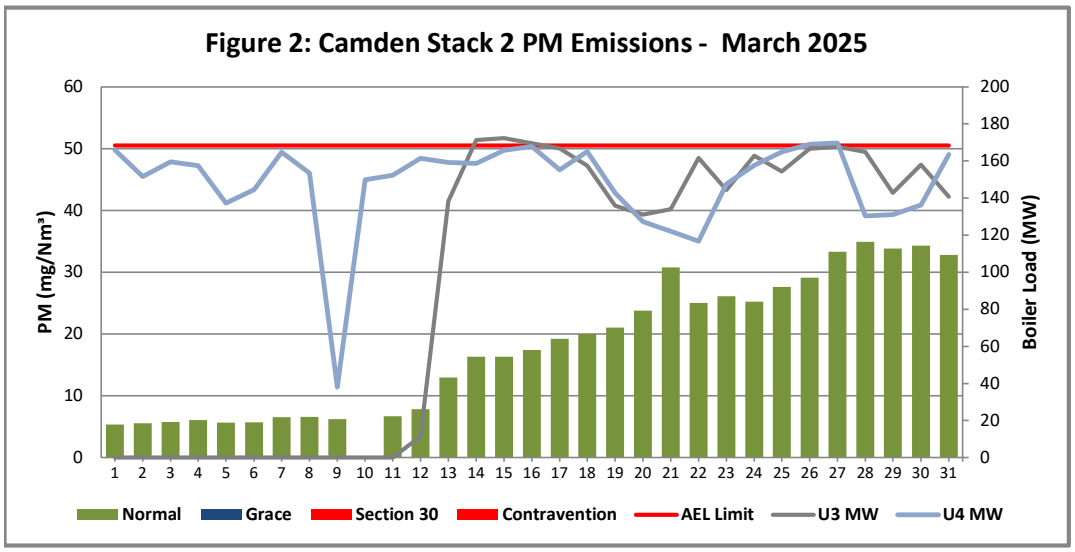
Figure 2: Camden Stack 2 PM Emissions - March 2025
PM (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U3 MW
U4 MW

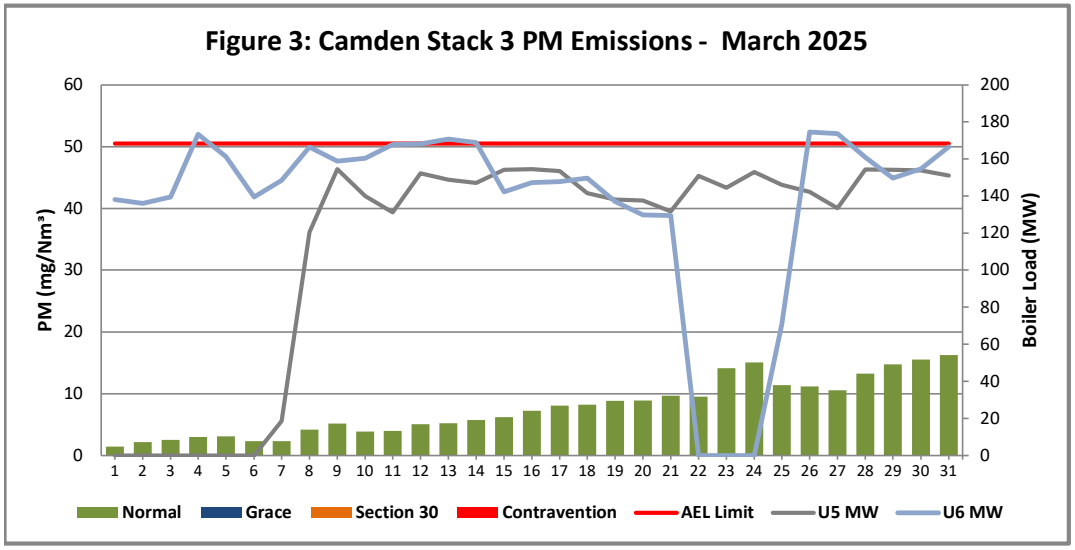
Figure 3: Camden Stack 3 PM Emissions - March 2025
PM (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U5 MW
U6 MW

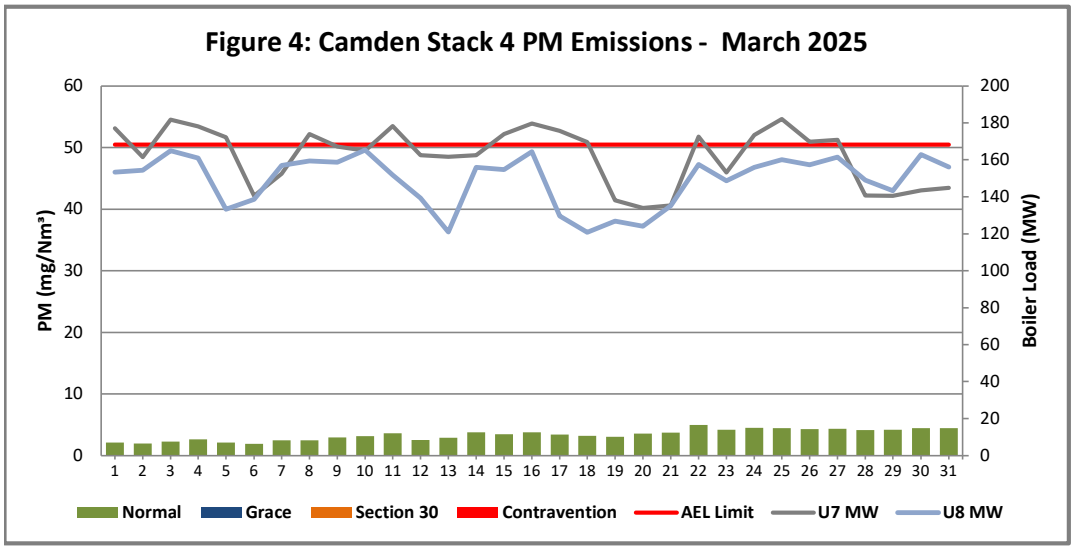
Figure 4: Camden Stack 4 PM Emissions - March 2025
PM (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U7 MW
U8 MW

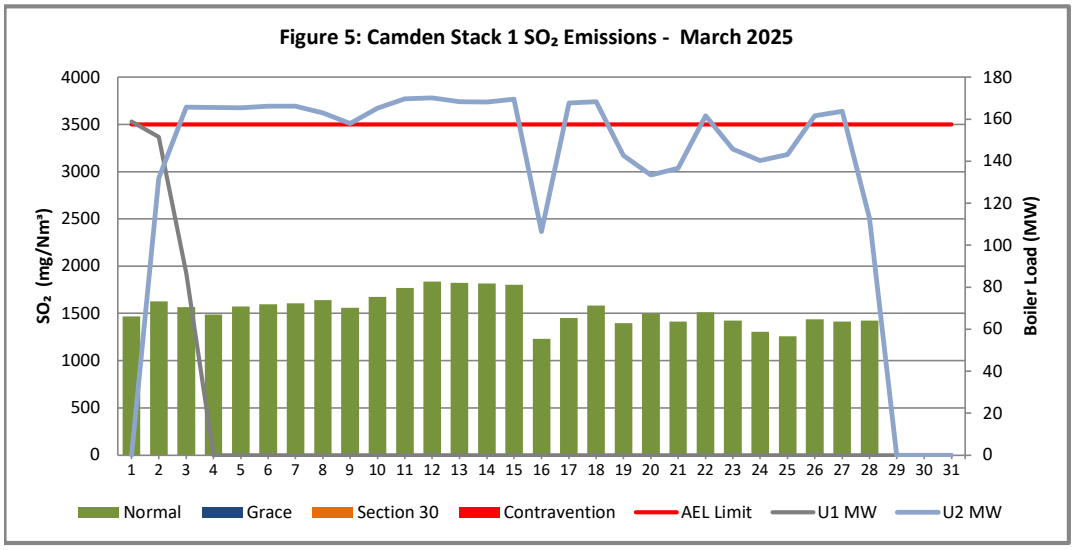
Figure 5: Camden Stack 1 SO₂ Emissions - March 2025
SO₂ (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U1 MW
U2 MW

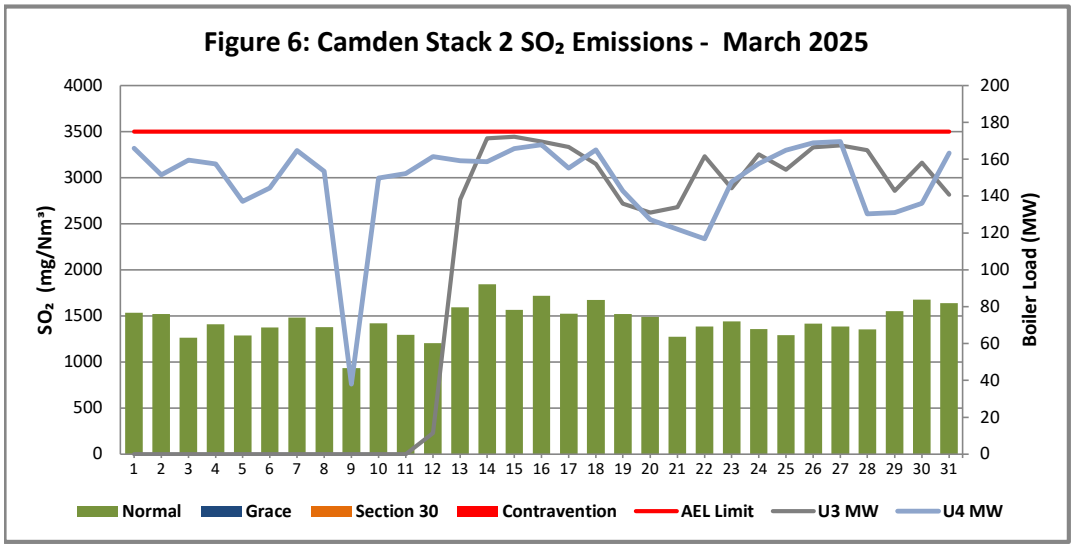
Figure 6: Camden Stack 2 SO₂ Emissions - March 2025
SO₂ (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U3 MW
U4 MW

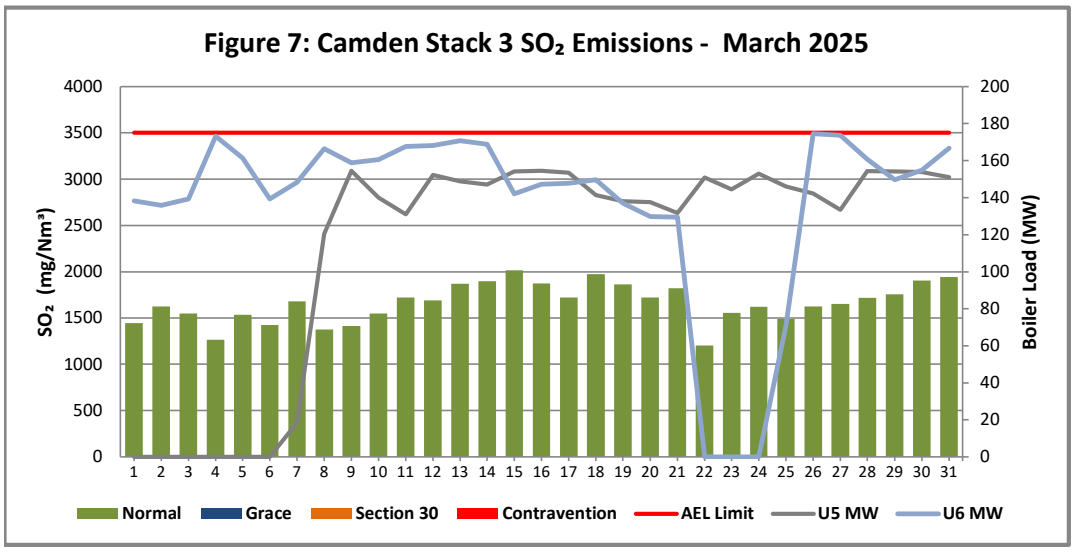
Figure 7: Camden Stack 3 SO_2 Emissions - March 2025
SO_2 (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U5 MW
U6 MW

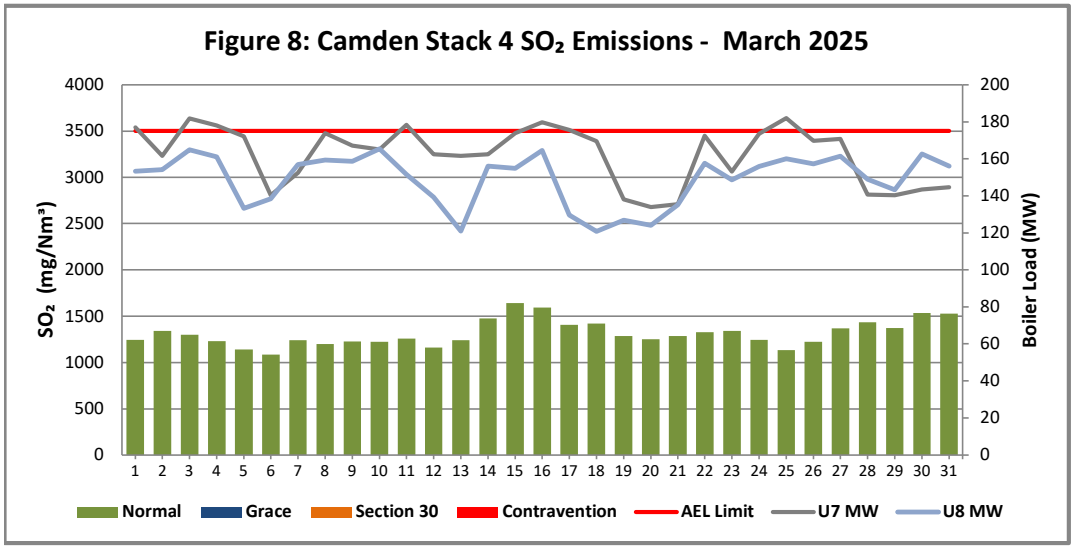
Figure 8: Camden Stack 4 SO_2 Emissions - March 2025
SO_2 (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U7 MW
U8 MW

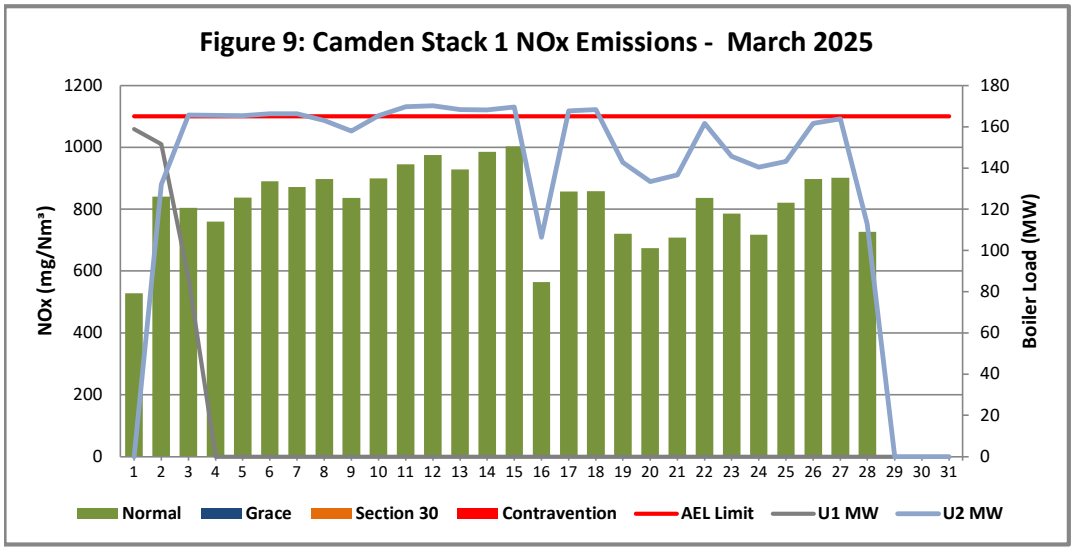
Figure 9: Camden Stack 1 NOx Emissions - March 2025
NOx (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U1 MW
U2 MW

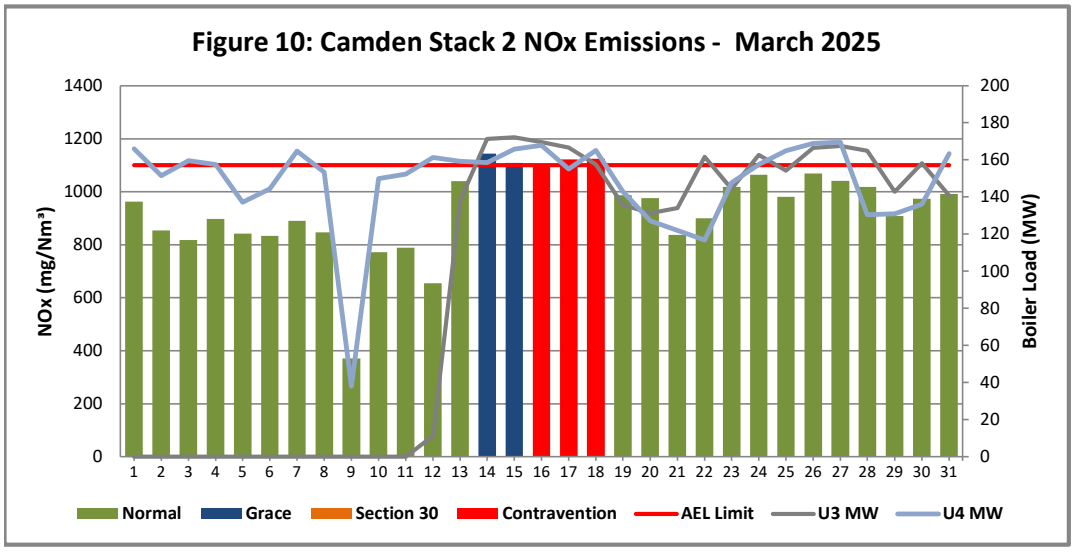
Figure 10: Camden Stack 2 NOx Emissions - March 2025
NOx (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U3 MW
U4 MW

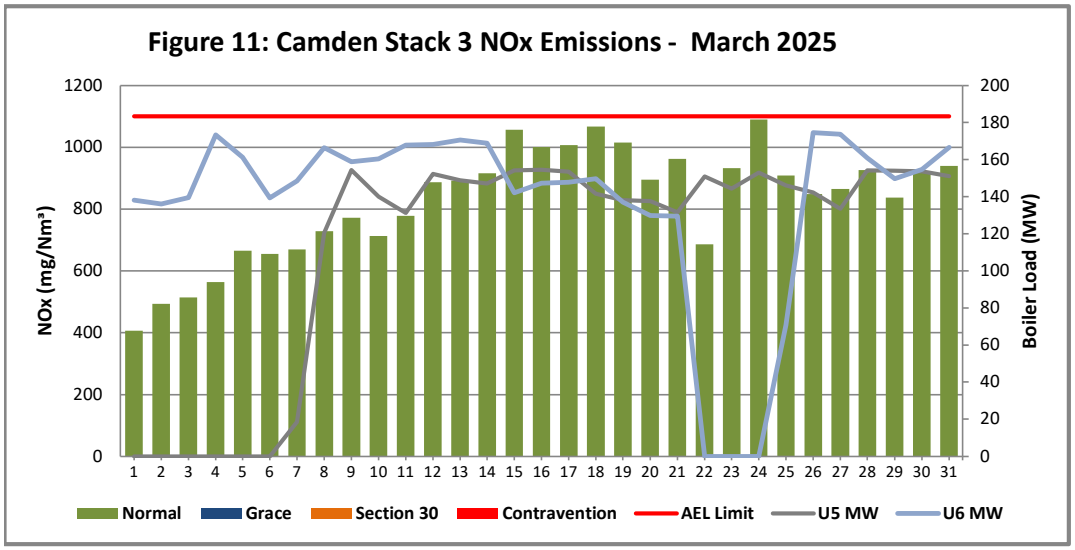
Figure 11: Camden Stack 3 NOx Emissions - March 2025
NOx (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U5 MW
U6 MW

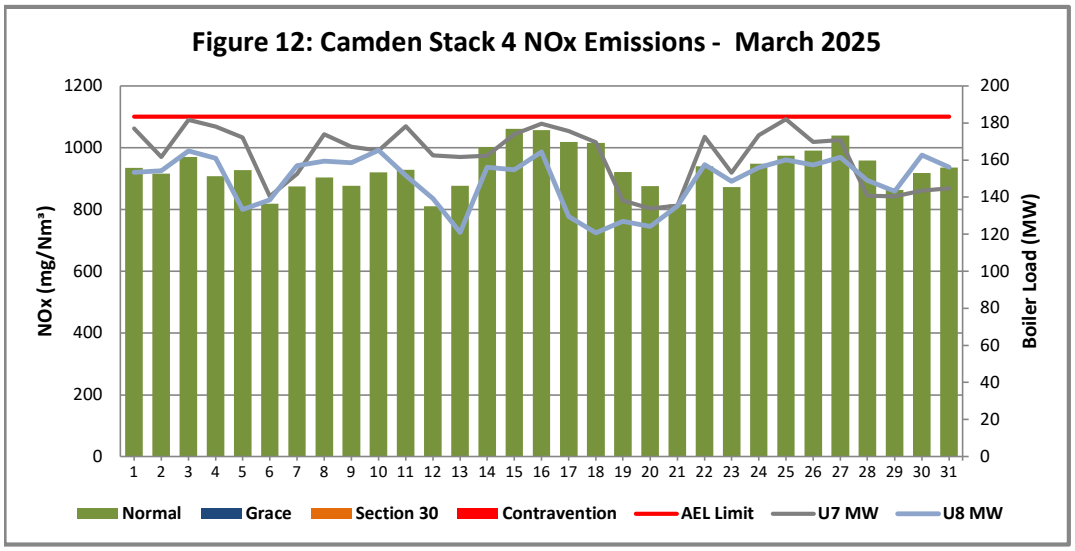
Figure 12: Camden Stack 4 NOx Emissions - March 2025
NOx (mg/Nm³)
Boiler Load (MW)
Normal
Grace
Section 30
Contravention
AEL Limit
U7 MW
U8 MW

10 GENERAL / ABNORMALITIES

Unit 1:

Stack 1 monitor froze due to electrical cable damage after a thunder storm, resulting in poor CEMS reliability from the 31 March 2025

Unit 2:

Stack 1 monitor froze due to electrical cable damage after a thunder storm, resulting in poor CEMS reliability from the 31 March 2025

Unit 3:

Stack 2 NOx above the max limit for longer than 48 hours. Investigation in progress.
O2 probe lense faulty, resulting in poor CEMS O2 reliability from the 31 March 2025.

Unit 4:

Stack 2 NOx above the max limit for longer than 48 hours. Investigation in progress.
O2 probe lense faulty, resulting in poor CEMS O2 reliability from the 31 March 2025.

Unit 5:

None

Unit 6:

None

Unit 7:

None

Unit 8:

None

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

Engineering Manager	16/04/2025	**Environmental Manager**	2025/04/16
	Date		**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