

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 Jan-2025
	Coal	Tons	550 000	390 523.88
	Fuel Oil	Tons	6 500	3 081.59
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Jan-2025
	Energy	GWh	1190	685.52
	Ash	Tons	200 000	80 682
	RE PM	kg/MWh	not specified	0.109

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	11.50
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	20.66

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 Jan-2025
Unit 1	Fabric Filter Plant (FFP)	99.999%
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)	99.999%
Unit 6	Fabric Filter Plant (FFP)	99.999%
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	92.8	96.2
Stack 2	100.0	96.0	98.0
Stack 3	78.9	71.9	86.0
Stack 4	100.0	97.6	98.1

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 January-2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	4.58	873	465
2	2.86	515	279
3	18.90	627	508
4	18.79	660	534
5	14.00	822	565
6	7.79	741	465
7	4.40	1 192	826
8	3.54	1 083	759
SUM	74.86	6 513	4 400

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	28	0	0	0	0	6.8
Stack 2	31	0	0	0	0	29.0
Stack 3	29	2	0	0	2	18.3
Stack 4	31	0	0	0	0	4.1
SUM	119	2	0	0	2	

Table 6.3: Operating days in compliance to SO₂ AEL Limit - January 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	29	0	0	0	0	1 222.8
Stack 2	31	0	0	0	0	908.1
Stack 3	31	0	0	0	0	1 292.1
Stack 4	31	0	0	0	0	1 084.0
SUM	122	0	0	0	0	

Table 6.4: Operating days in compliance to NO_x AEL Limit - January 2025

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	29	0	0	0	0	650.1
Stack 2	31	0	0	0	0	728.1
Stack 3	31	0	0	0	0	805.1
Stack 4	31	0	0	0	0	750.4
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 - January 2025

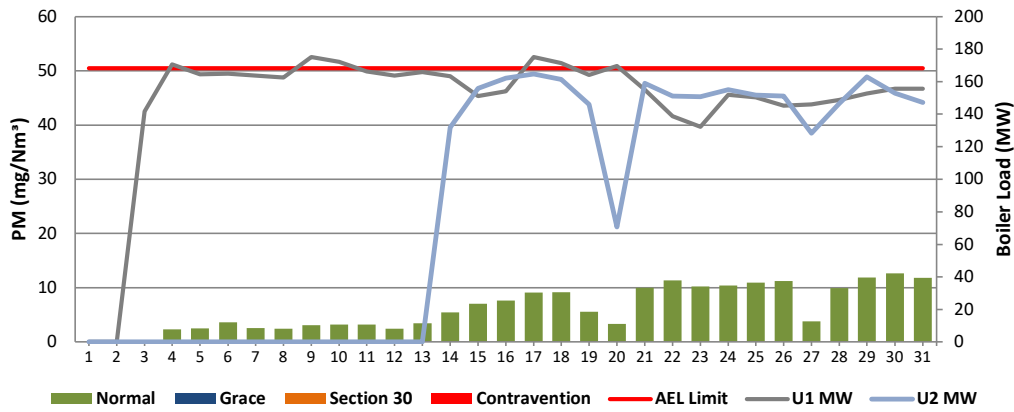


Figure 2: Camden Stack 2 PM Emissions - January 2025

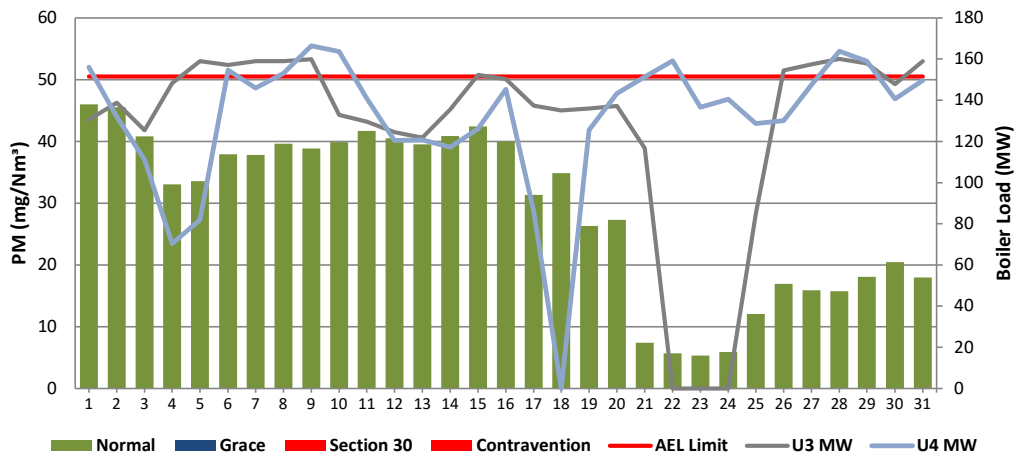


Figure 3: Camden Stack 3 PM Emissions - January 2025

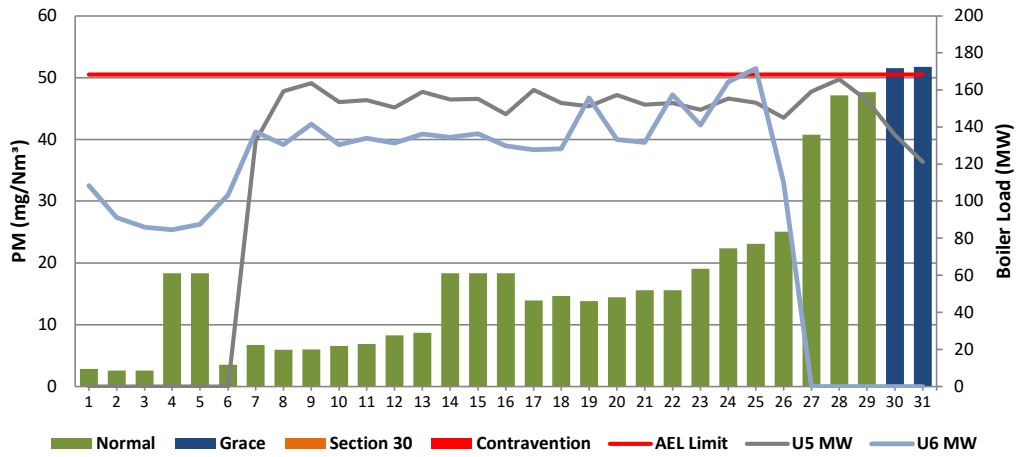


Figure 4: Camden Stack 4 PM Emissions - January 2025

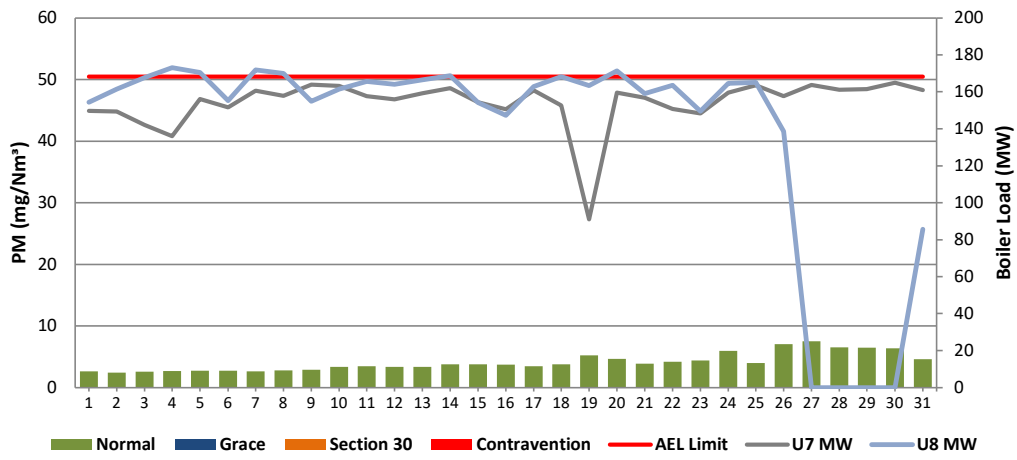


Figure 5: Camden Stack 1 SO₂ Emissions - January 2025

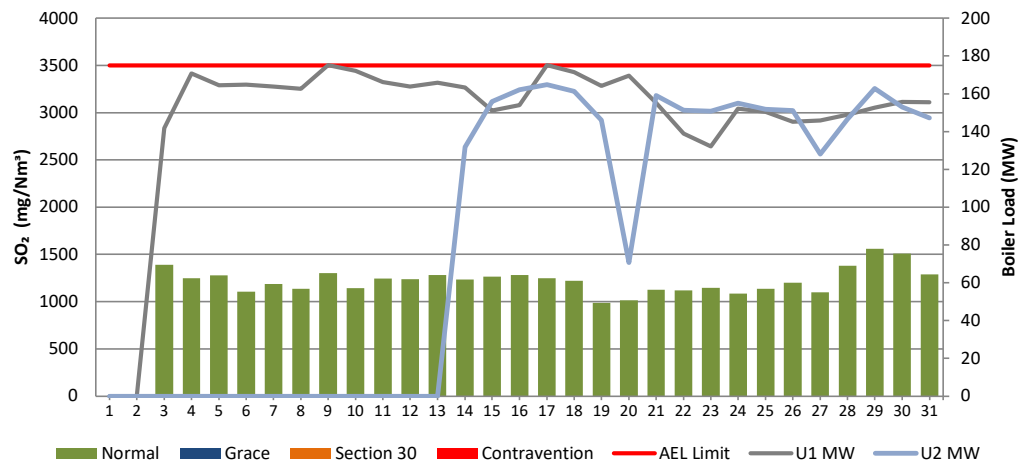


Figure 6: Camden Stack 2 SO₂ Emissions - January 2025

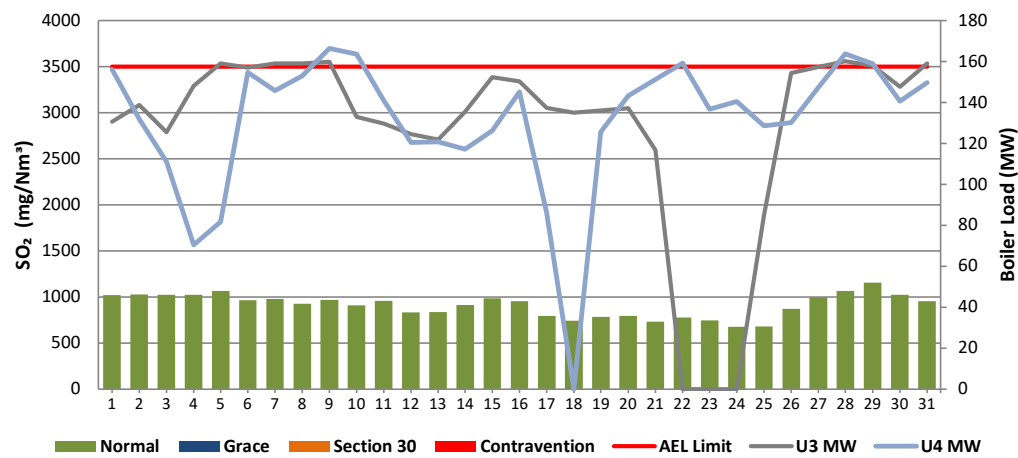


Figure 7: Camden Stack 3 SO₂ Emissions - January 2025

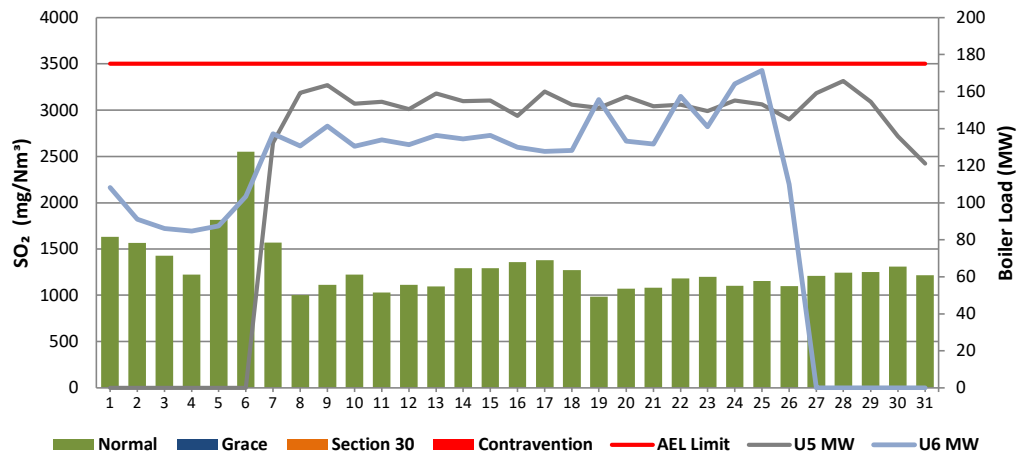


Figure 8: Camden Stack 4 SO₂ Emissions - January 2025

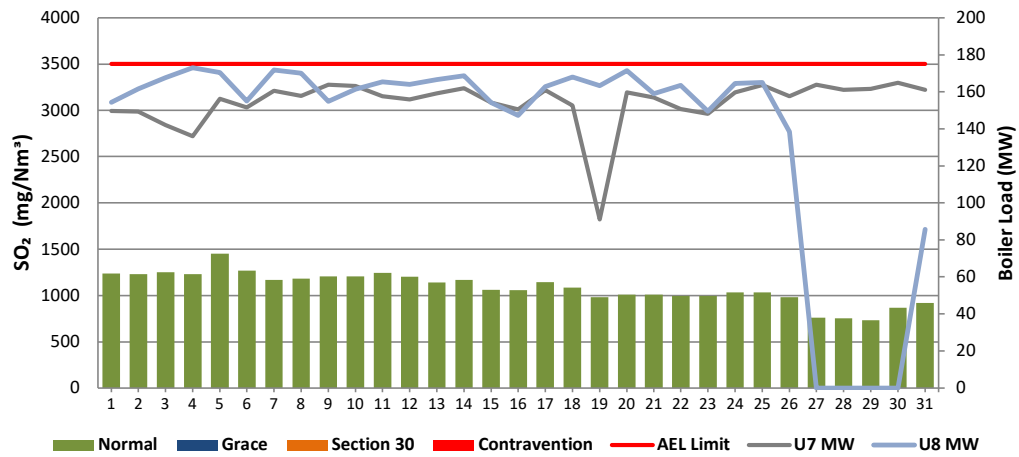


Figure 9: Camden Stack 1 NOx Emissions - January 2025

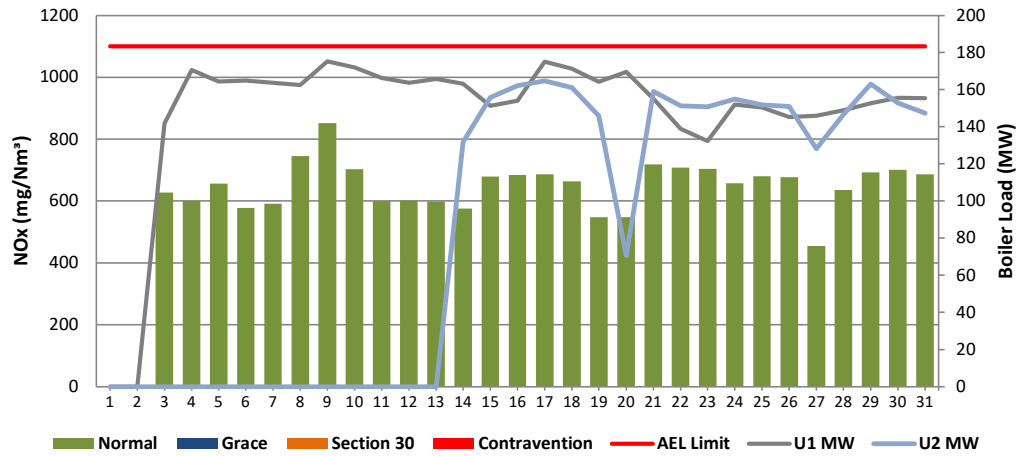


Figure 10: Camden Stack 2 NOx Emissions - January 2025

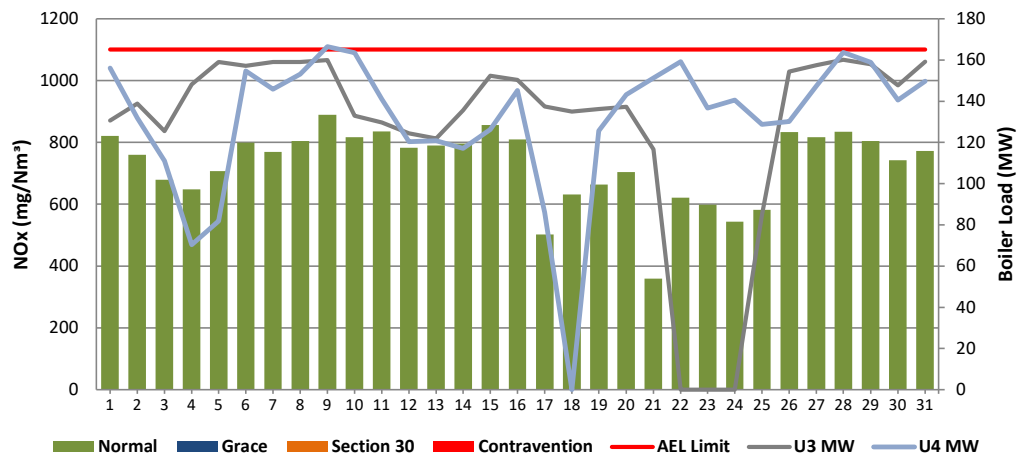


Figure 11: Camden Stack 3 NOx Emissions - January 2025

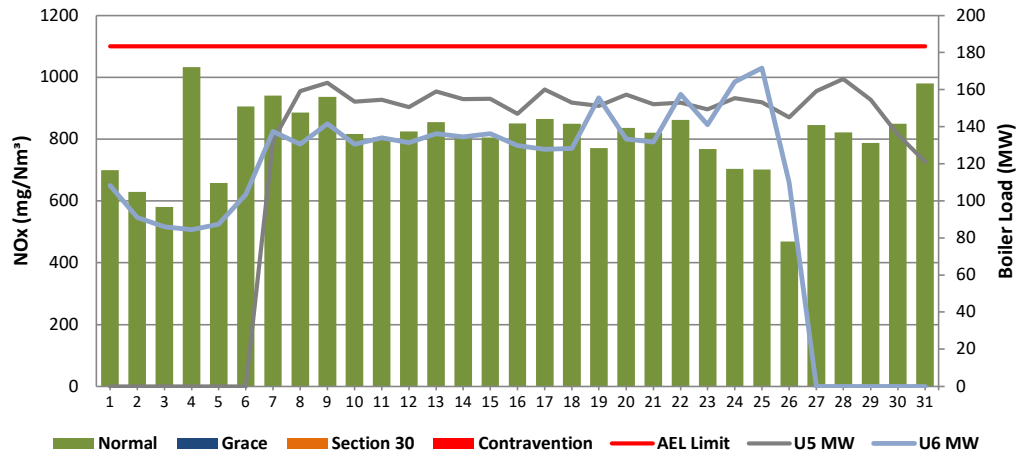
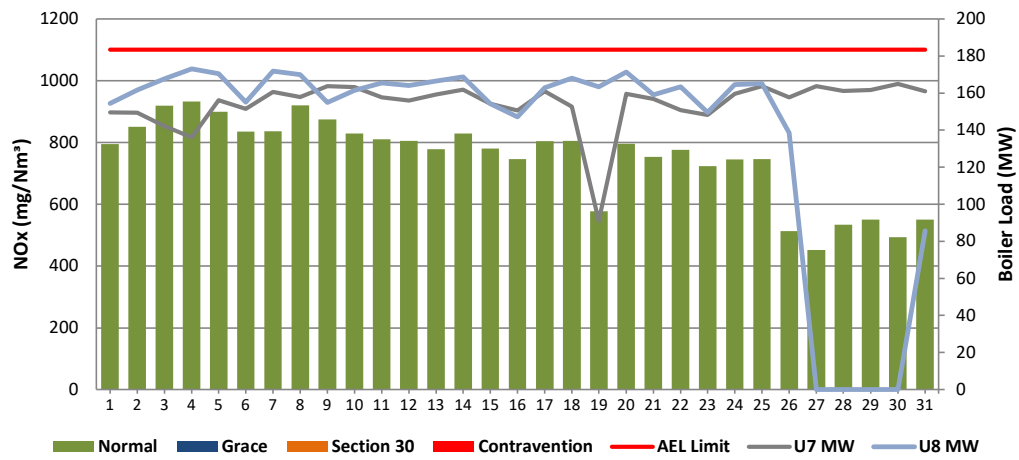


Figure 12: Camden Stack 4 NOx Emissions - January 2025



10 GENERAL / ABNORMALITIES

Unit 1:

None

Unit 2:

None

Unit 3:

None

Unit 4:

None

Unit 5:

Damaged cable resulted in PM and Gas monitor to froze. This resulted in below 80% PM and Gas reliability.

Low fuel oil pressures due to fuel oil plant issues, resulted in high PM values. Station could not reduce the load to replace damaged FFP bags. This resulted in 48 hours of PM exceedances

Unit 6:

Damaged cable resulted in PM and Gas monitor to froze. This resulted in below 80% PM and Gas reliability.

Low fuel oil pressures due to fuel oil plant issues, resulted in high PM values. Station could not reduce the load to replace damaged FFP bags. This resulted in 48 hours of PM exceedances

Unit 7:

West fuel oil plant defects

Unit 8:

West fuel oil plant defects

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



Engineering Manager

17/02/2025

Date



Environmental Manager

18/02/2025

Date

Compiled by: Environmental Department&verified by Boiler Eng

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For: Department of Environment, Forestry & Fisheries

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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