

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 Aug-2025
	Coal	Tons	550 000	332 709.13
	Fuel Oil	Tons	6 500	1 532.21
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Aug-2025
	Energy	GWh	1190	601.57
	Ash	Tons	200 000	73 296
	RE PM	kg/MWh	not specified	0.213

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	22.44
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	22.03

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 Aug-2025
Unit 1	Fabric Filter Plant (FFP)	99.998%
Unit 2	Fabric Filter Plant (FFP)	99.998%
Unit 3	Fabric Filter Plant (FFP)	99.997%
Unit 4	Fabric Filter Plant (FFP)	99.998%
Unit 5	Fabric Filter Plant (FFP)	99.998%
Unit 6	Fabric Filter Plant (FFP)	99.998%
Unit 7	Fabric Filter Plant (FFP)	Exempt
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	100.0	100.0
Stack 2	100.0	99.5	99.5
Stack 3	100.0	99.7	100.0
Stack 4	100.0	96.2	96.0

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 August-2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	15.36	1 142	634
2	14.79	935	512
3	20.63	648	489
4	27.90	1 034	700
5	24.24	913	535
6	17.37	708	392
7	Exempt	0	0
8	7.55	846	577
SUM	127.84	6 227	3 839

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	29	2	0	0	2	20.2
Stack 2	28	3	0	0	3	37.9
Stack 3	31	0	0	0	0	32.5
Stack 4	21	0	0	0	0	10.3
SUM	109	5	0	0	5	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	31	0	0	0	0	1 467.7
Stack 2	31	0	0	0	0	1 335.6
Stack 3	31	0	0	0	0	1 258.3
Stack 4	25	0	0	0	0	1 032.3
SUM	118	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	31	0	0	0	0	807.8
Stack 2	31	0	0	0	0	904.1
Stack 3	31	0	0	0	0	716.3
Stack 4	25	0	0	0	0	702.1
SUM	118	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 - August 2025

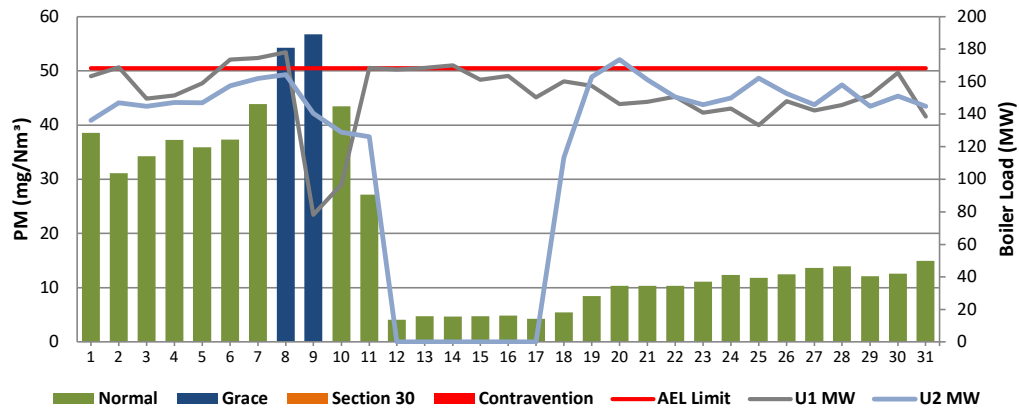


Figure 2: Camden Stack 2 PM Emissions - August 2025

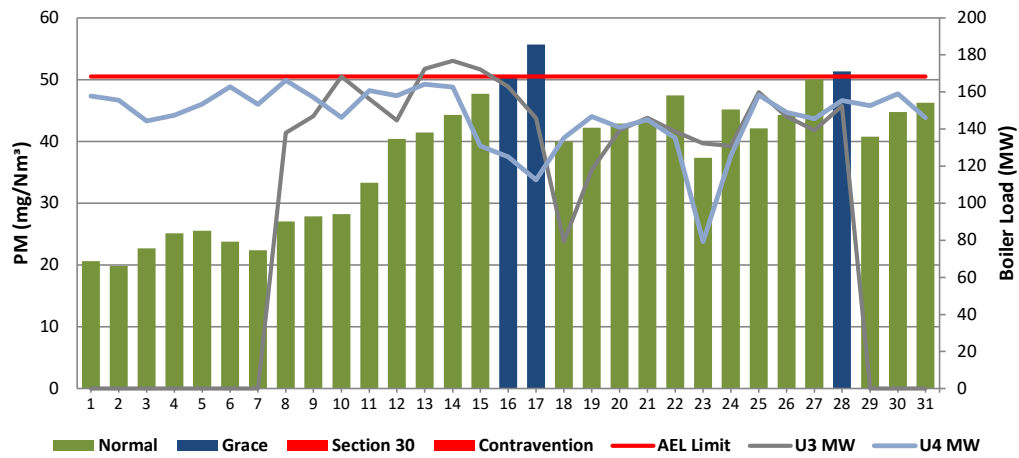


Figure 3: Camden Stack 3 PM Emissions - August 2025

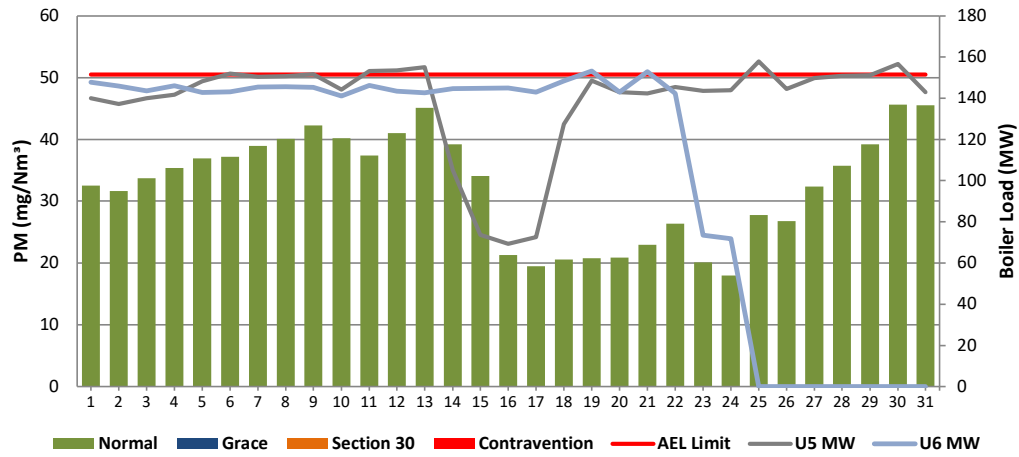


Figure 4: Camden Stack 4 PM Emissions - August 2025

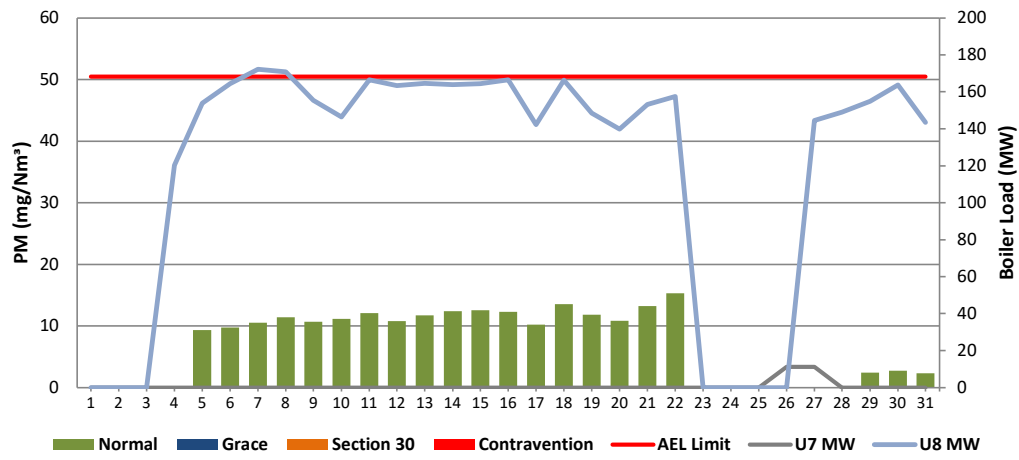


Figure 5: Camden Stack 1 SO₂ Emissions - August 2025

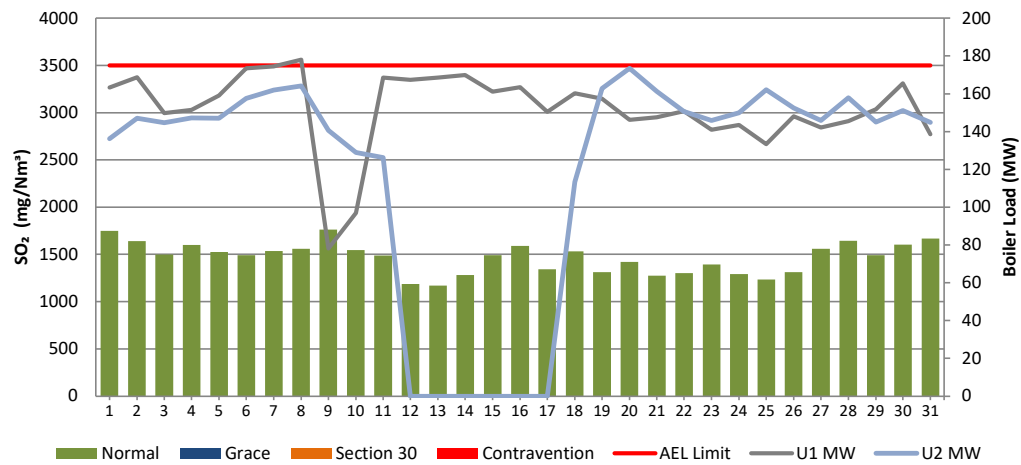


Figure 6: Camden Stack 2 SO₂ Emissions - August 2025

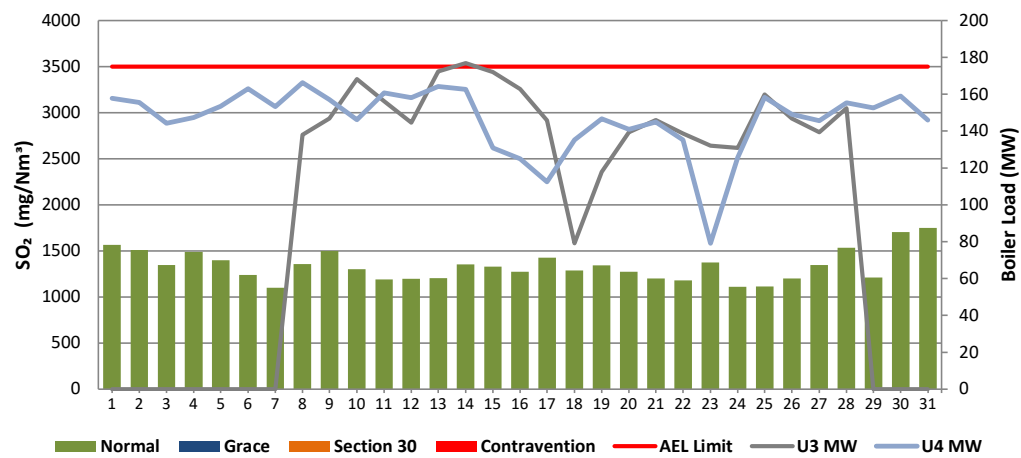


Figure 7: Camden Stack 3 SO₂ Emissions - August 2025

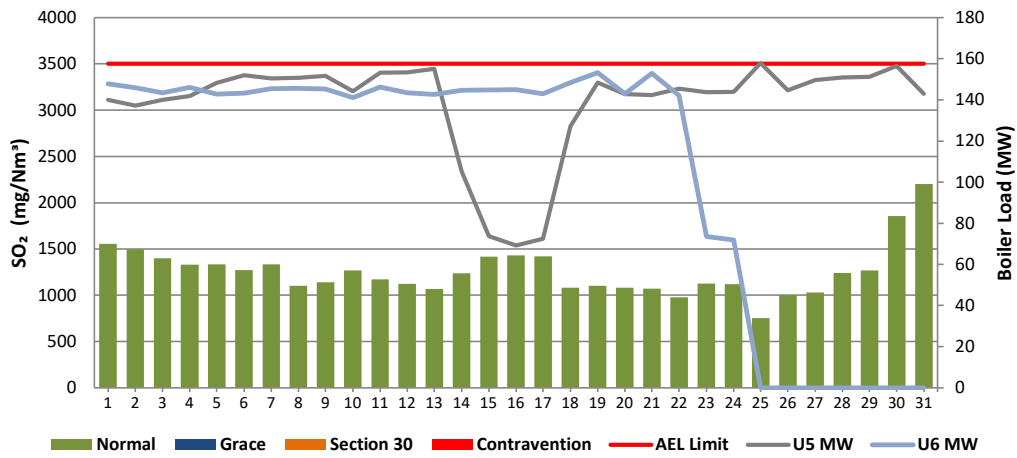


Figure 8: Camden Stack 4 SO₂ Emissions - August 2025

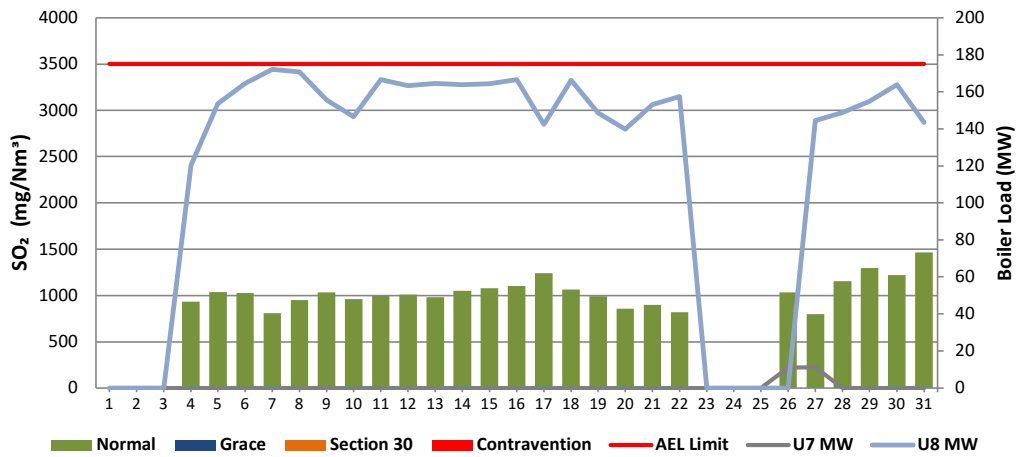


Figure 9: Camden Stack 1 NOx Emissions - August 2025

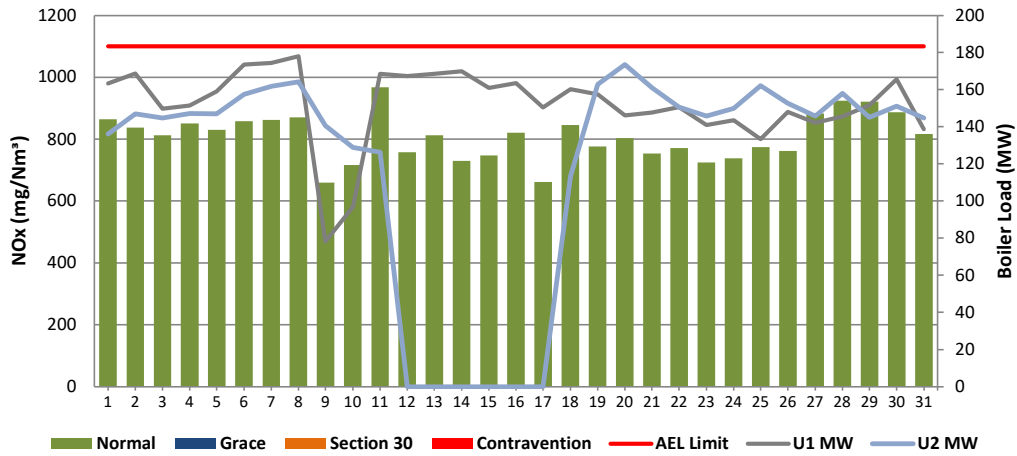


Figure 10: Camden Stack 2 NOx Emissions - August 2025

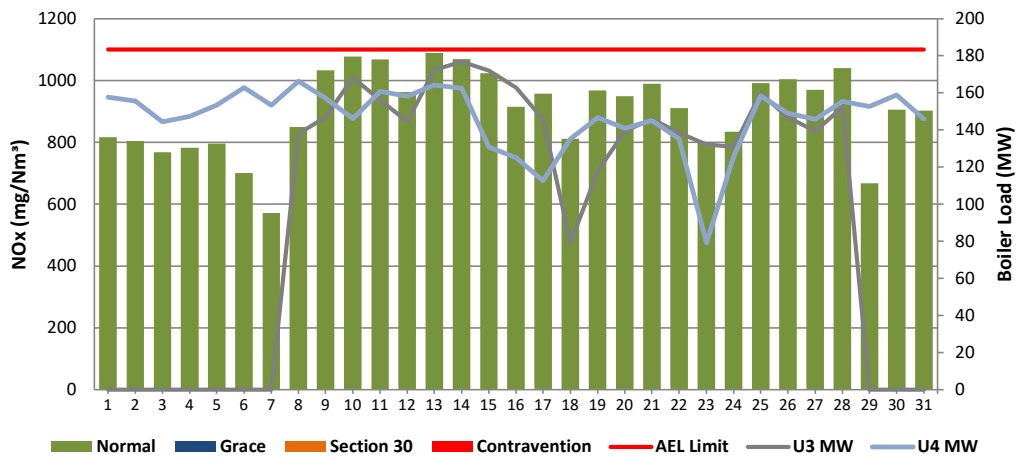


Figure 11: Camden Stack 3 NOx Emissions - August 2025

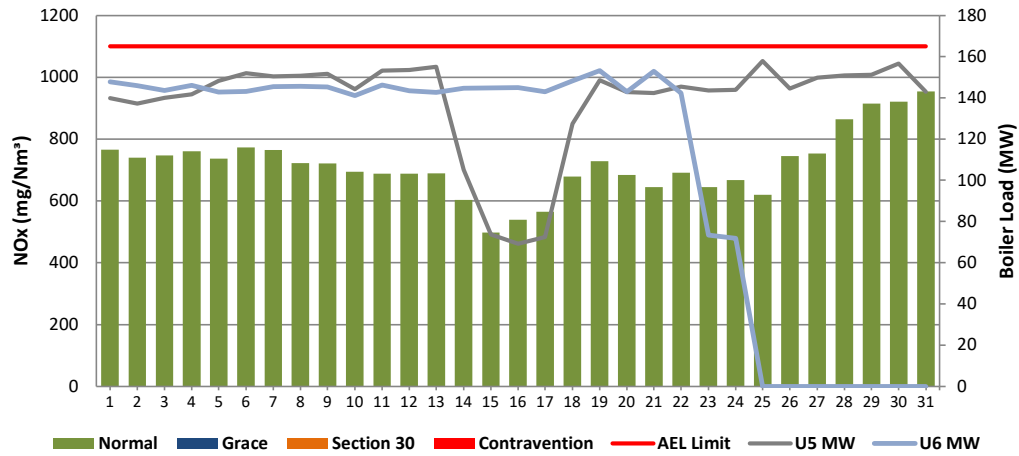
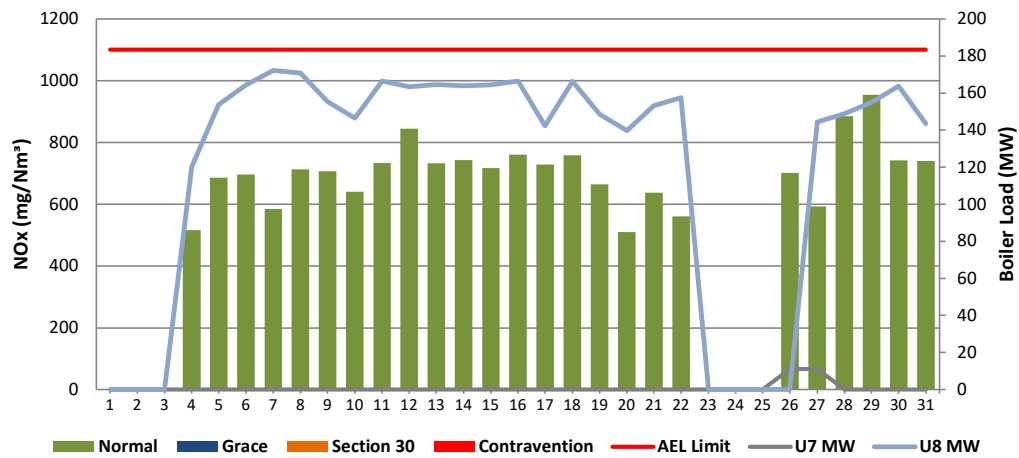


Figure 12: Camden Stack 4 NOx Emissions - August 2025



10 GENERAL PLANT ISSUES / ABNORMALITIES

Unit 1:

* 15 FFP Bags replaced.

Unit 2:

* 119 FFP Bags replaced which formed part of the bags that were submerged in ash. After replacement, PM dropped significantly.

Unit 3:

* Unit couldn't be deloaded below 160MW due to Turbine Vibrations, which contributed to high PM. Once the unit was granted to reduce below 160MW, the unit could be taken out for bag change.

* 155 FFP Bags replaced.

Unit 4:

* 40 FFP Bags replaced.

Unit 5:

* 73 FFP Bags replaced.

* Faulty LH Drive 3 & 4, affected the pulsing/cleaning of the Bags.

Unit 6:

* 29 FFP Bags replaced.

Unit 7:

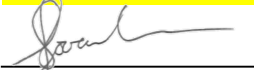
GO from 25 July 2025 to November 2025

Unit 8:

* 15 FFP Bags replaced.

No complaints received for the month of August 2025

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



Engineering Manager

18-09-2025
Date



Environmental Manager

18/09/2025
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