

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 Jul-2025
	Coal	Tons	550 000	419 550.00
	Fuel Oil	Tons	6 500	1 831.39
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Jul 2025
	Energy	GWh	1190	749.67
	Ash	Tons	200 000	90 035
	RE PM	kg/MWh	not specified	0.178

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19.56	23.30
Sulphur Content	%	< 2	0.90
Ash Content	%	<34	21.46

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 Jul-2025
Unit 1	Fabric Filter Plant (FFP)	99.998%
Unit 2	Fabric Filter Plant (FFP)	99.998%
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)	99.998%
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	94.0	97.2
Stack 2	100.0	93.5	93.5
Stack 3	100.0	93.0	97.3
Stack 4	100.0	90.5	96.8

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-2025

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	20.89	1 251	672
2	20.52	968	517
3	25.42	1 065	753
4	25.95	1 115	779
5	13.16	940	532
6	16.12	1 072	586
7	5.35	1 108	736
8	5.96	1 124	742
SUM	133.36	8 644	5 317

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm³)
Stack 1	29	2	0	0	2	26.0
Stack 2	30	1	0	0	1	33.5
Stack 3	31	0	0	0	0	21.4
Stack 4	29	0	0	0	0	6.4
SUM	119	3	0	0	3	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
Stack 1	31	0	0	0	0	1 527.1
Stack 2	31	0	0	0	0	1 430.7
Stack 3	31	0	0	0	0	1 407.9
Stack 4	29	0	0	0	0	1 265.5
SUM	122	0	0	0	0	

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

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm³)
Stack 1	31	0	0	0	0	819.9
Stack 2	27	3	0	1	4	996.3
Stack 3	31	0	0	0	0	771.6
Stack 4	29	0	0	0	0	839.0
SUM	118	3	0	1	4	

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 2025

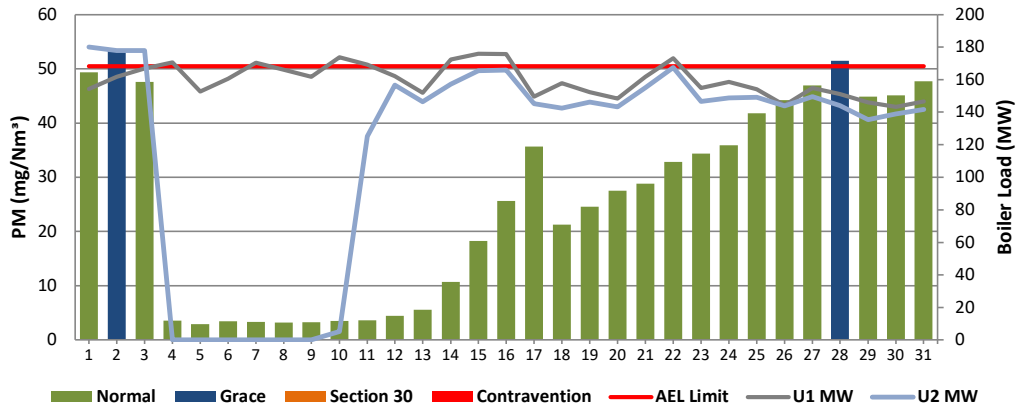


Figure 2: Camden Stack 2 PM Emissions - July 2025

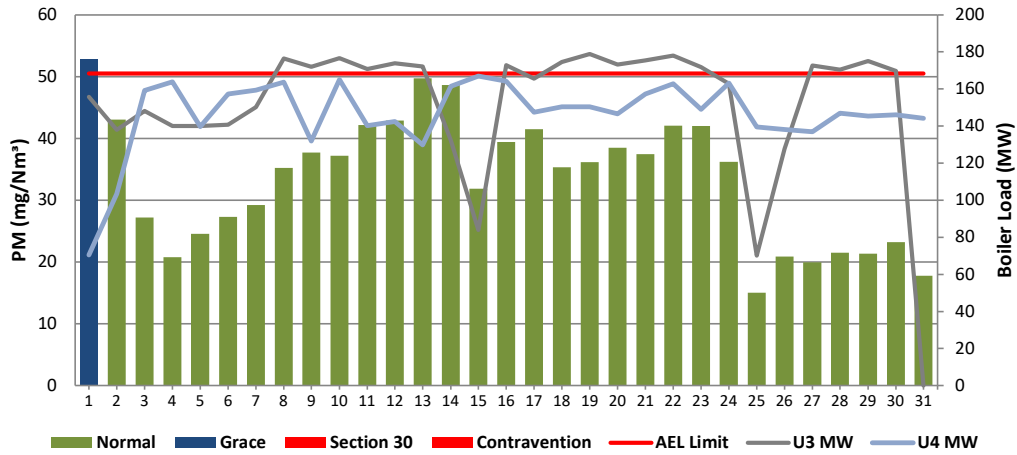


Figure 3: Camden Stack 3 PM Emissions - July 2025

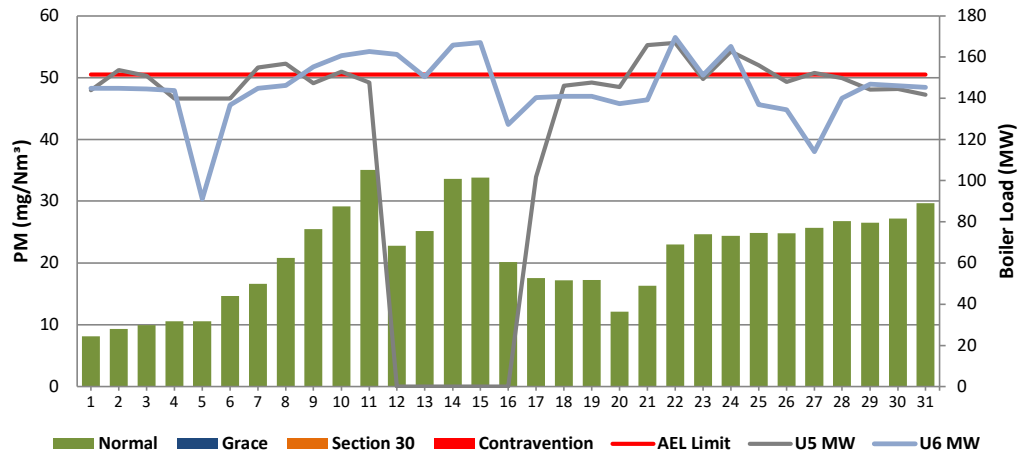


Figure 4: Camden Stack 4 PM Emissions - July 2025

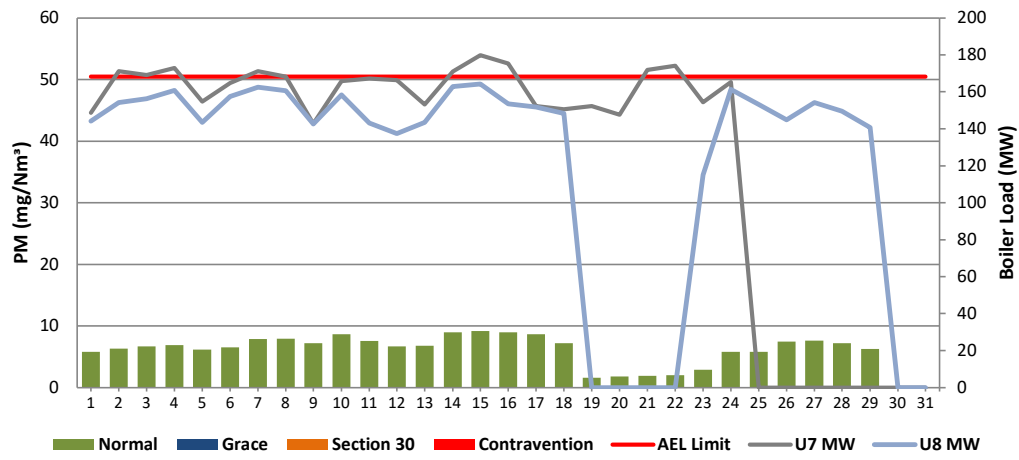


Figure 5: Camden Stack 1 SO₂ Emissions - July 2025

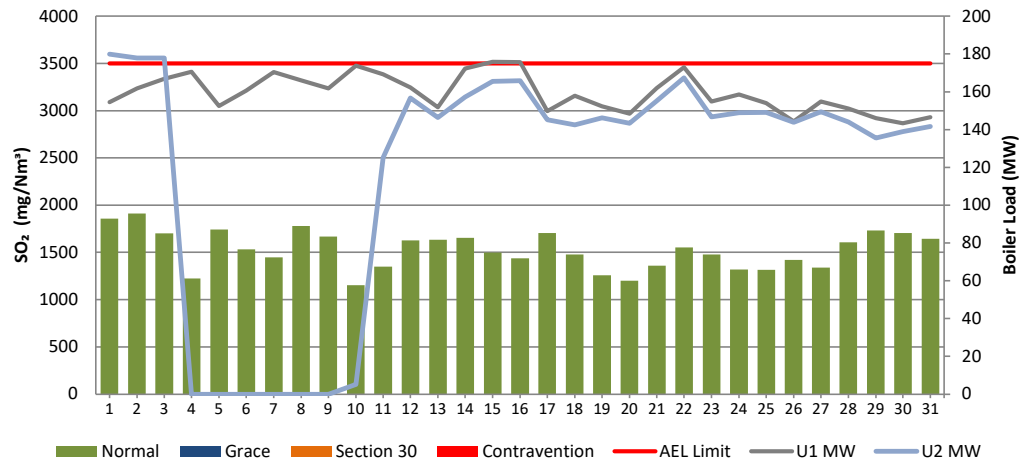


Figure 6: Camden Stack 2 SO₂ Emissions - July 2025

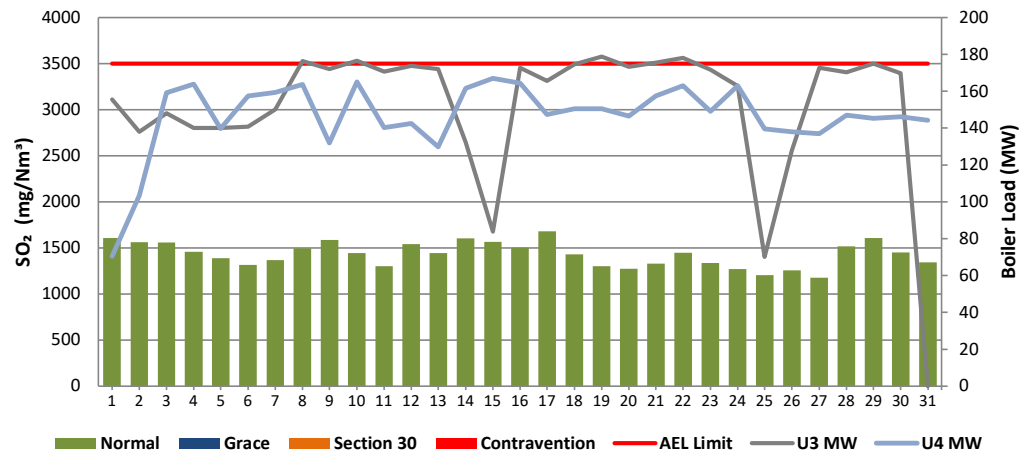


Figure 7: Camden Stack 3 SO₂ Emissions - July 2025

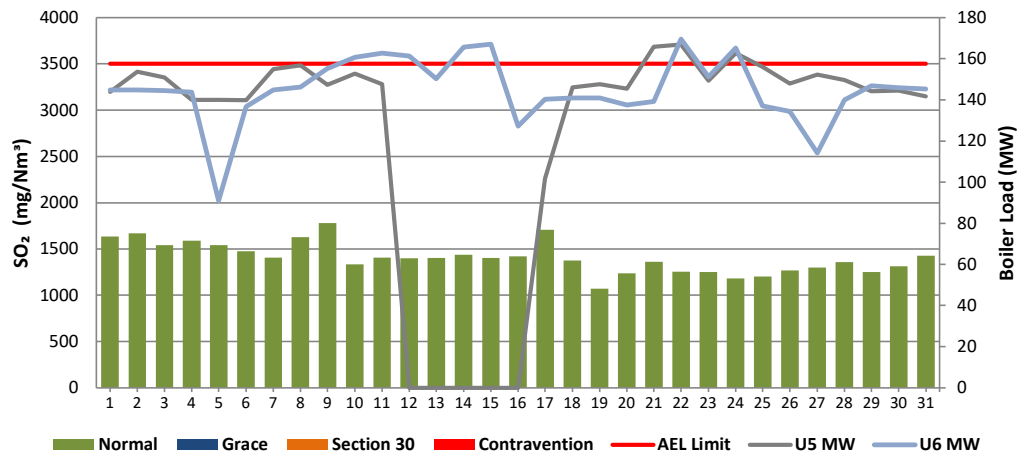


Figure 8: Camden Stack 4 SO₂ Emissions - July 2025

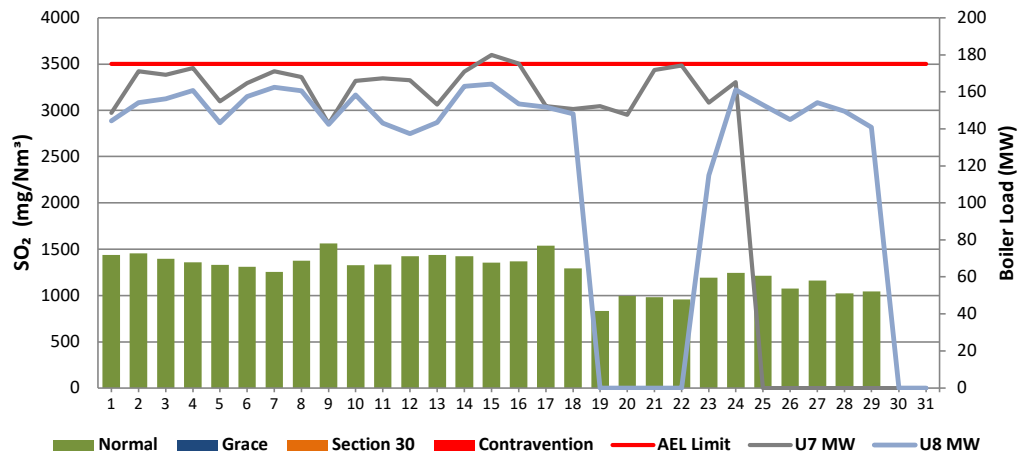


Figure 9: Camden Stack 1 NOx Emissions - July 2025

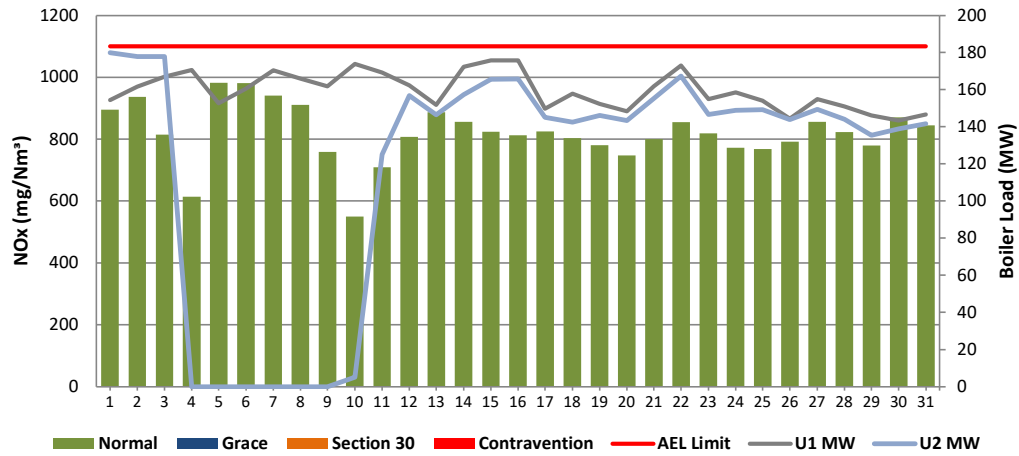


Figure 10: Camden Stack 2 NOx Emissions - July 2025

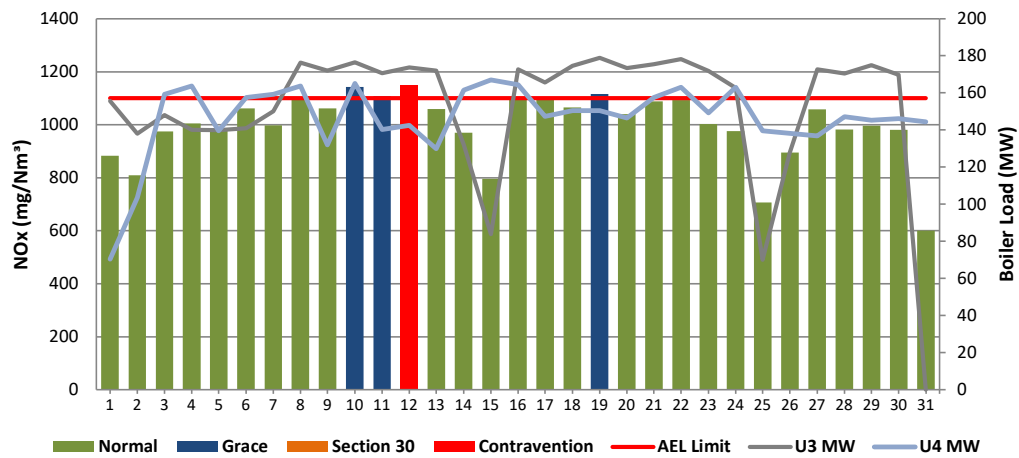


Figure 11: Camden Stack 3 NOx Emissions - July 2025

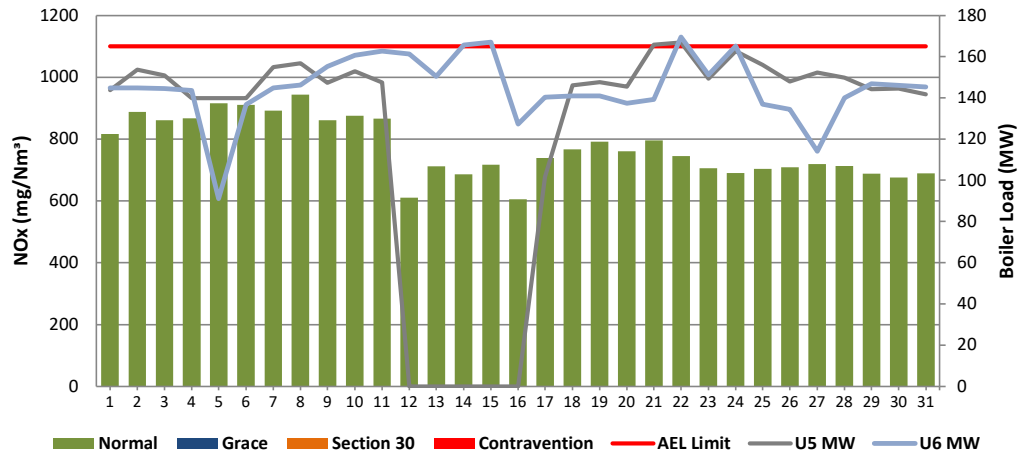
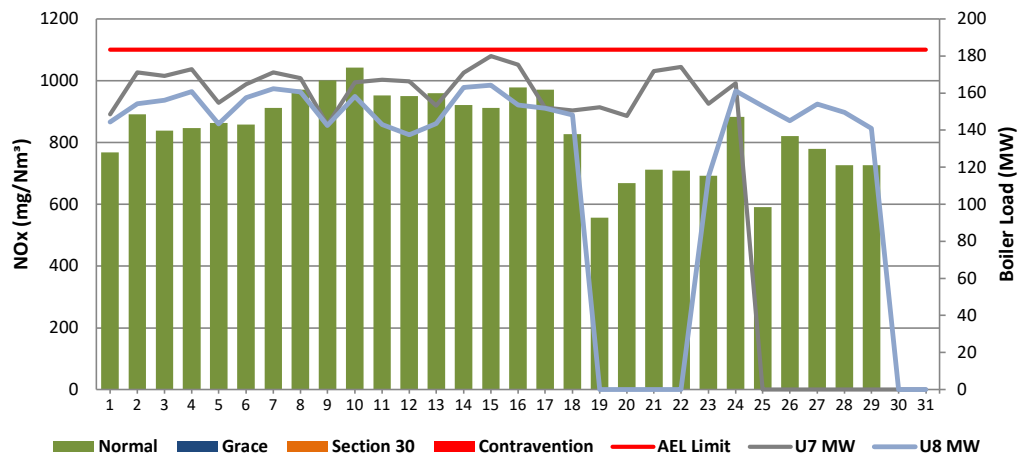


Figure 12: Camden Stack 4 NOx Emissions - July 2025



10 GENERAL PLANT ISSUES / ABNORMALITIES

Unit 1:

Unit 2:

161 FFP bags replaced during the month

Unit 3:

Stack 2 NOx above the max limit for longer than 48 hours from 11 - 13 July 2025. Investigation in progress.
O2 probe drifted, O2 data removed from 01 - 14 July 2025. Suspect that monitor is faulty.

136 FFP bags replaced during the month

Unit 4:

Stack 2 NOx above the max limit for longer than 48 hours from 11 - 13 July 2025. Investigation in progress.
O2 probe drifted, O2 data removed from 01 - 14 July 2025. Suspect that monitor is faulty.

52 FFP bags replaced during the month

Unit 5:

39 FFP bags replaced during the month

Unit 6:

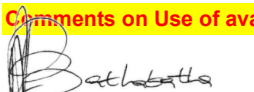
Unit 7:

GO from 25 July 2025 to November 2025

Unit 8:

No complaints received for the month of July 2025

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


Engineering Manager

18/08/2025
Date


Environmental Manager

19/08/2025
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