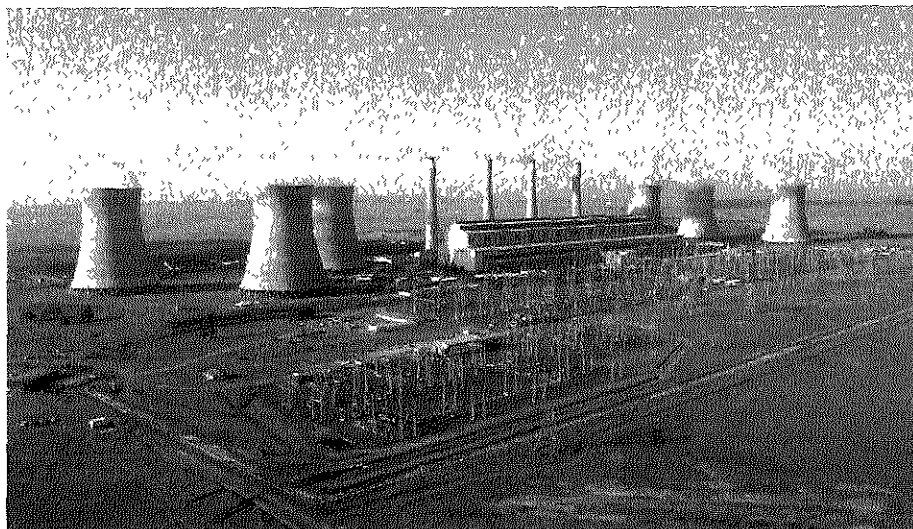


CAMDEN POWER STATION MONTHLY EMISSIONS REPORT

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 Aug-2024
	Coal	Tons	550 000	257 829 00
	Fuel Oil	Tons	6 500	4 022 41
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Actual Production Aug-2024
	Energy	GWh	1600	519 97
	Ash	Tons	not specified	56 851
	RE PM	kg/MWh	not specified	0 254

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	19 56	22 80
Sulphur Content	%	< 2	0 90
Ash Content	%	25 to 35	22 05

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-2024
Unit 1	Fabric Filter Plant (FFP)	99.997%
Unit 2	Fabric Filter Plant (FFP)	99.998%
Unit 3	Fabric Filter Plant (FFP)	99.997%
Unit 4	Fabric Filter Plant (FFP)	99.999%
Unit 5	Fabric Filter Plant (FFP)	100.000%
Unit 6	Fabric Filter Plant (FFP)	Off
Unit 7	Fabric Filter Plant (FFP)	99.997%
Unit 8	Fabric Filter Plant (FFP)	99.996%

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	95.8	96.9
Stack 2	100.0	95.1	98.1
Stack 3	100.0	99.3	100.0
Stack 4	100.0	96.9	99.1

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 August-2024

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
1	14.85	690	414
2	21.11	980	580
3	28.97	497	499
4	0.49	38	28
5	2.91	560	424
6	Off	Off	Off
7	24.18	700	604
8	39.54	925	808
SUM	132.04	4,390	3,357

Table 6 2 Operating days in compliance to PM AEL Limit - August 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm ³)
Stack 1	31	0	0	0	0	28.1
Stack 2	27	2	0	0	2	42.8
Stack 3	20	0	0	0	0	7.9
Stack 4	30	1	0	0	1	38.7
SUM	108	3	0	0	3	

Table 6 3 Operating days in compliance to SO₂ AEL Limit - August 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm ³)
Stack 1	31	0	0	0	0	1 230.1
Stack 2	31	0	0	0	0	733.4
Stack 3	23	0	0	0	0	1 098.0
Stack 4	31	0	0	0	0	887.0
SUM	116	0	0	0	0	

Table 6 4 Operating days in compliance to NO_x AEL Limit - August 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NO _x (mg/Nm ³)
Stack 1	31	0	0	0	0	728.0
Stack 2	31	0	0	0	0	698.7
Stack 3	23	0	0	0	0	810.1
Stack 4	31	0	0	0	0	773.6
SUM	116	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 2024

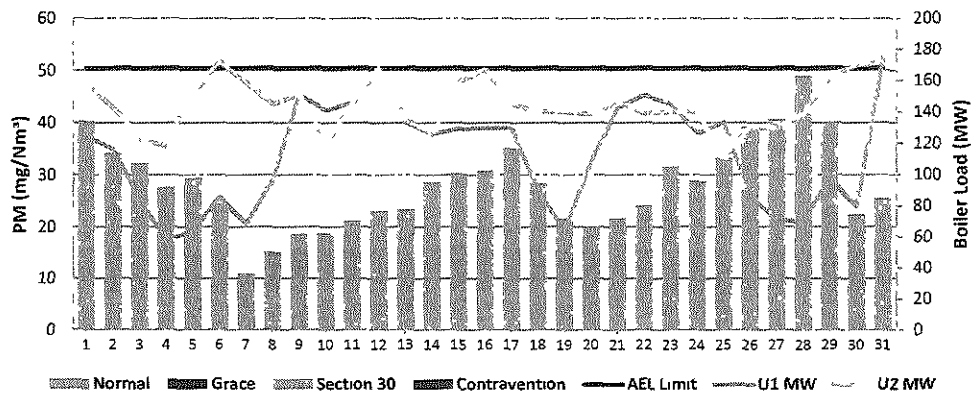


Figure 2: Camden Stack 2 PM Emissions - August 2024

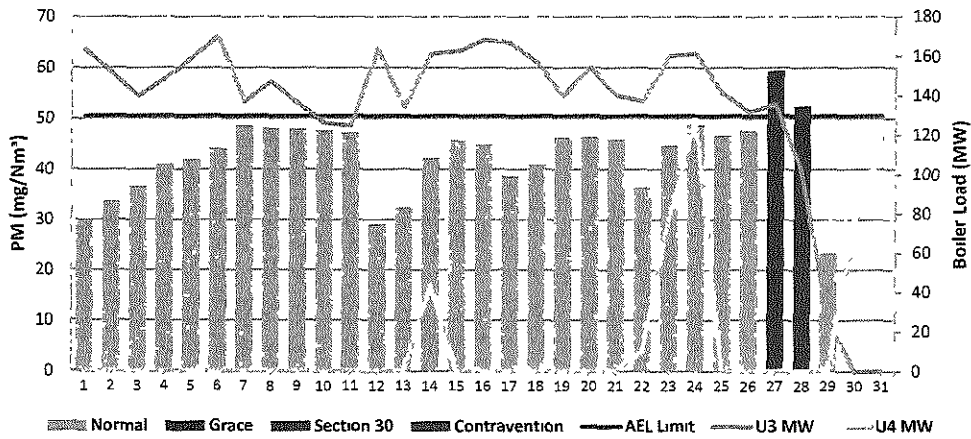


Figure 3: Camden Stack 3 PM Emissions - August 2024

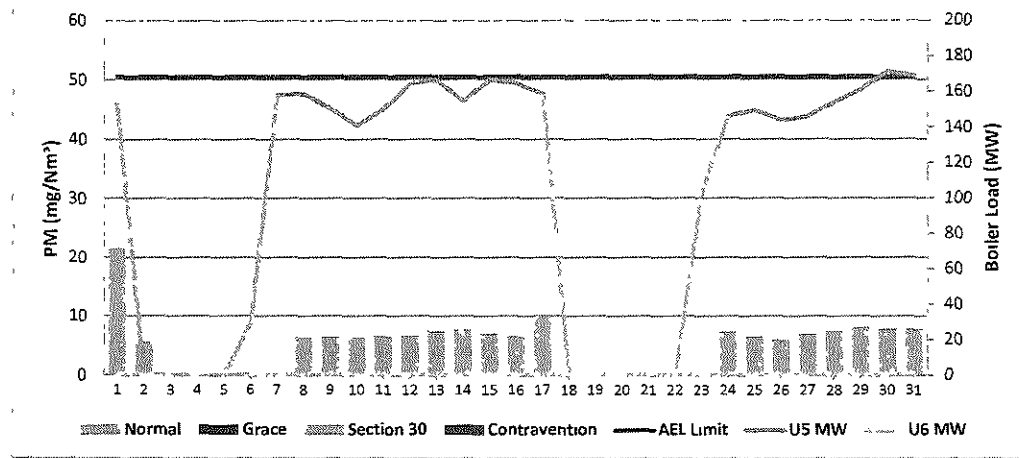
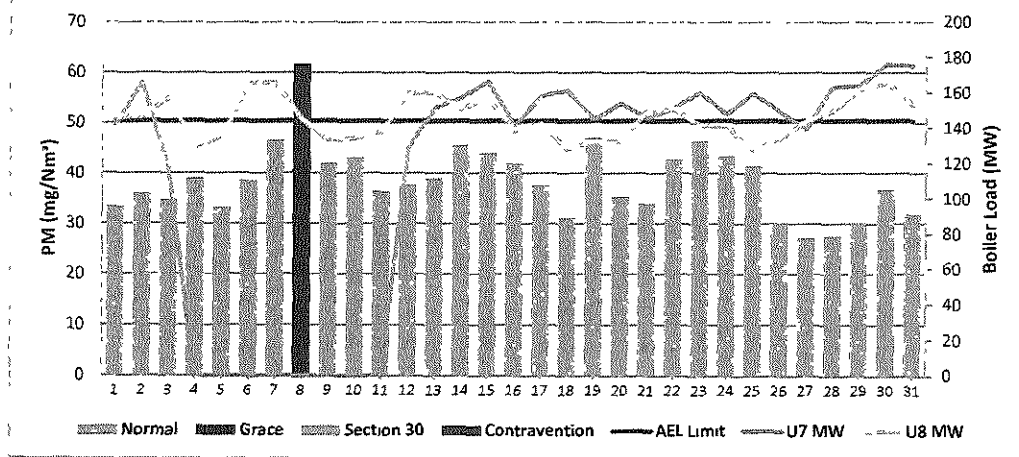


Figure 4: Camden Stack 4 PM Emissions - August 2024



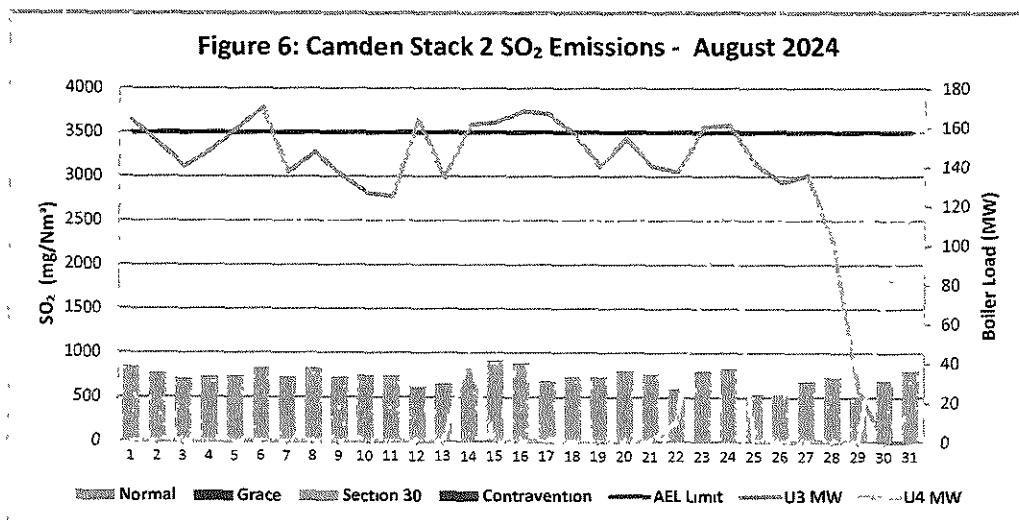
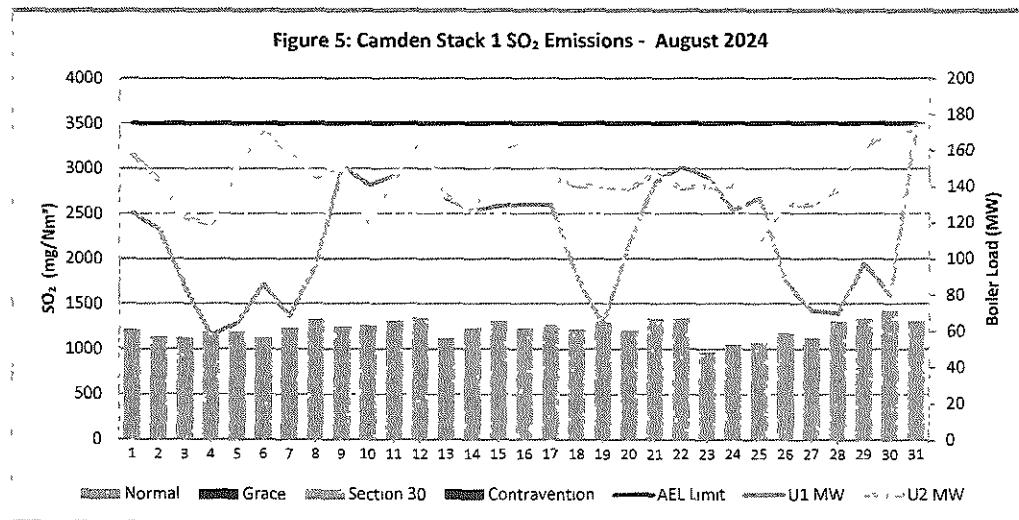


Figure 7: Camden Stack 3 SO₂ Emissions - August 2024

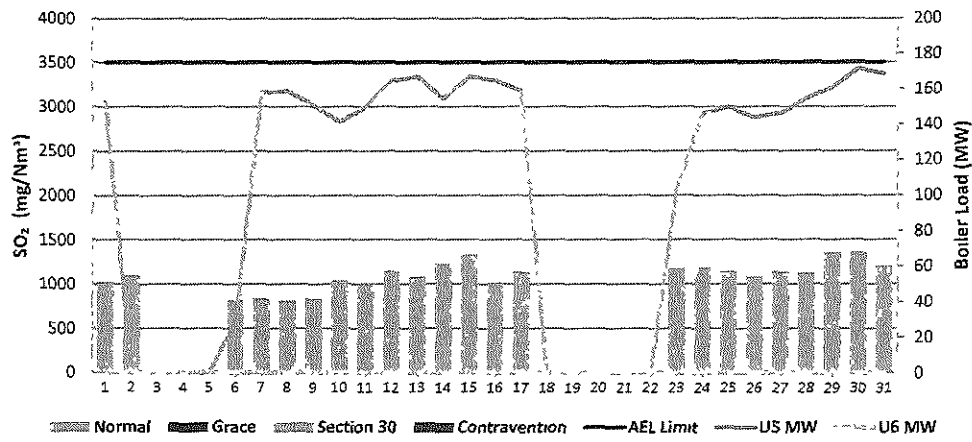


Figure 8: Camden Stack 4 SO₂ Emissions - August 2024

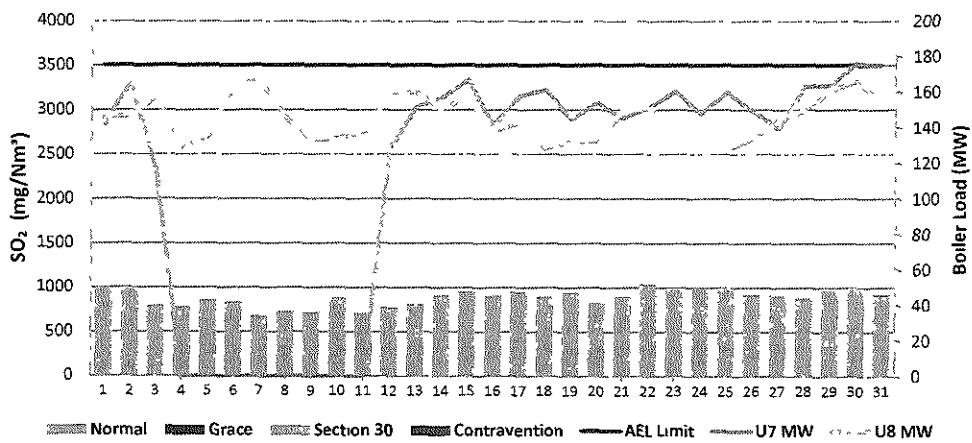


Figure 9: Camden Stack 1 NOx Emissions - August 2024

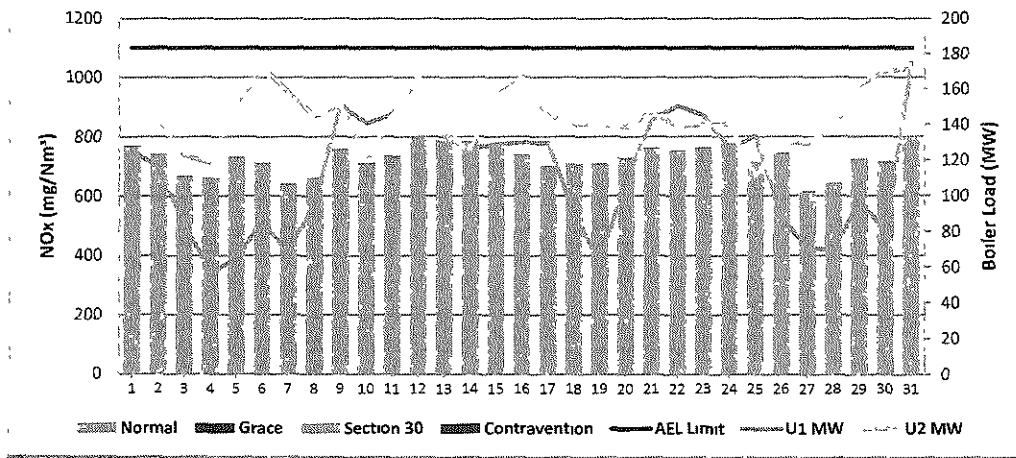


Figure 10: Camden Stack 2 NOx Emissions - August 2024

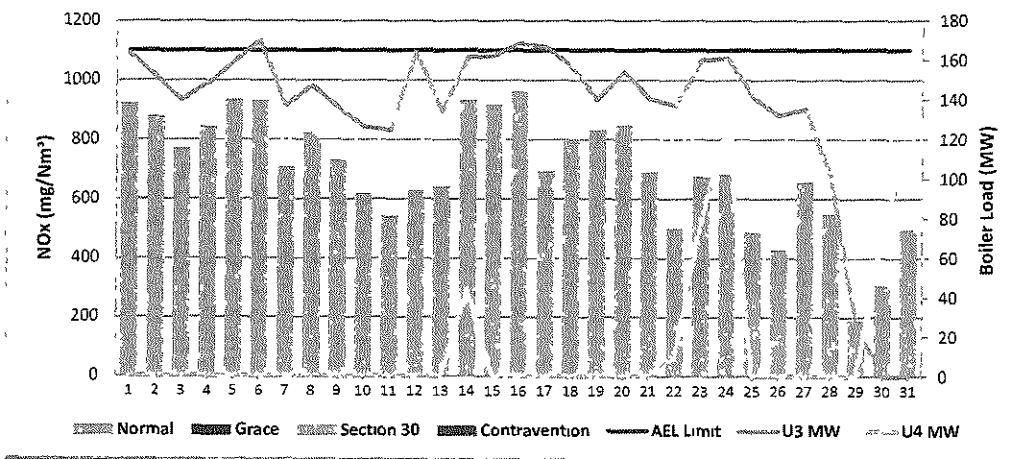


Figure 11: Camden Stack 3 NOx Emissions - August 2024

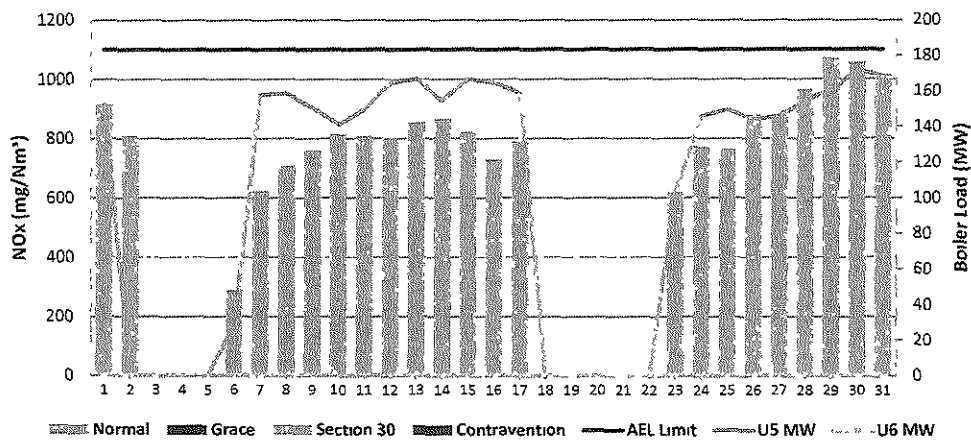
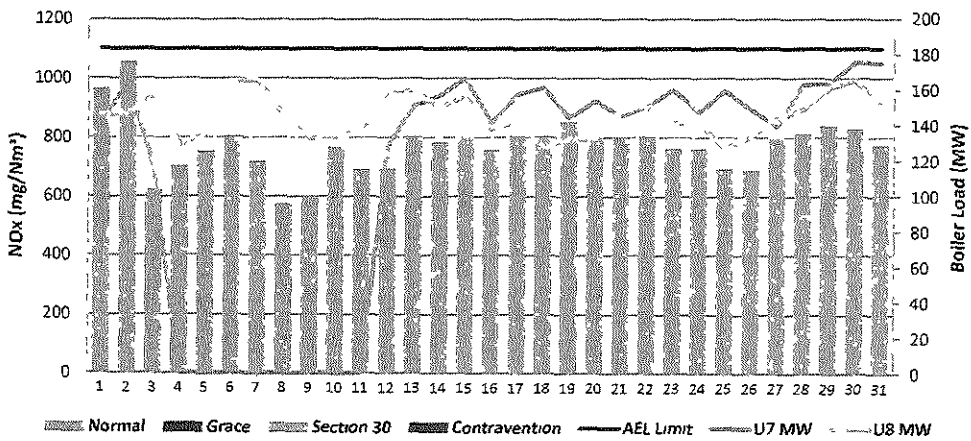


Figure 12: Camden Stack 4 NOx Emissions - August 2024



10 GENERAL / ABNORMALITIES

Unit 1:

None

Unit 2:

None

Unit 3:

None

Unit 4:

None

Unit 5:

None

Unit 6

off for the month of August 2024

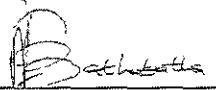
Unit 7:

None

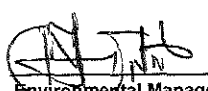
Unit 8:

None

Comments on Use of averages for Stack 2 O2 from QAL2 tests as per previous months


Engineering Manager

19/09/2024
Date


Environmental Manager

19.09.2024
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