



Mr. Vusi Mahlangu
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Date:
20 August 2020

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Dear Mr. Mahlangu

ARNOT POWER STATION'S MONTHLY EMISSIONS REPORT FOR THE MONTH OF JULY 2020

This serves as the monthly report required in terms of Section 6 in Arnot Power Station's Atmospheric Emission License. The emissions are for the month of July 2020, Verified emissions of particulates; SO₂ and NO_x (as NO₂) are also included.

Raw Materials and Products

Table1: Quantity of Raw Materials and Products used/produced for the Month of July 2020

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Consumption/ Rate in Month of July
	Coal	Tons/month	1 050 330	487 806.32
	Fuel Oil	Tons/month	10 000	1450.11
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate in Month of July 2020
	Energy	GWh	1 785 600	885 260.39
	Ash	Tons/month	421 000	113 952

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Eskom Holdings SOC Ltd Reg No 2002/015527/30

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Abatement Technology

Table 2: Abatement Equipment Control Technology for month of July 2020

Associated Unit/Stack	Technology Type	Actual Utilisation (%) for the month of July 2020
North Stack	Fabric Filter Bags	99.9%
South Stack	Fabric Filter Bags	99.7%

Energy Source Characteristics

Table 3: Energy Source Material Characteristics for the month of July 2020

Characteristic	Stipulated Range (Unit)	Monthly Average Content
Sulphur Content	0.5 to < 1 (%)	0.698
Ash Content	17 to < 40 (%)	23.36

Table 4 Operating days in compliance to PM AEL Limit – July 2020

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm ³)
North	31	0	0	0	0	30.2
South	31	0	0	0	0	66.6
SUM	62	0	0	0	0	

Table 5 Operating days in compliance to NOx AEL Limit – July 2020

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm ³)
North	31	0	0	0	0	703.4
South	31	0	0	0	0	756.1
SUM	62	0	0	0	0	

Table 6: Operating days in compliance to SOx AEL Limit – July 2020

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SOx (mg/Nm ³)
North	31	0	0	0	0	1566.7
South	31	0	0	0	0	1696.6
SUM	62	0	0	0	0	

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Table 4: Monthly tonnages for the month of July 2020

Unit	PM (tons)	SO ₂ (tons)	NO ₂ (tons)
Total Tons (North & South Stack)	222.3	7686.7	3426.3

Table 5: Monitor Availability

Unit	PM (%)	SO ₂ (%)	NO ₂ (%)
North Stack	99.9%	99.5	99.2
South Stack	100%	97.3	97.3

Table 6: Each unit and respective days operating under normal operation, days in grace period, and section 30 days respectively

Unit	Days operating under normal operation	Days operating in grace period	Days operating under S 30
1	31	0	0
2	31	0	0
3	31	0	0
4	31	0	0
5	31	0	0
6	31	0	0

Light up information

Continuous reporting is being done even during start-ups, emissions were not affected.

Complaints Register

Table 7. Complaints for the month of July 2020

Source Code/ Name	Root Cause Analysis	Calculation of Impacts/ emissions associated with the incident	Dispersion modeling of pollutants where applicable	Measures implemented to prevent reoccurrence	Date by which measure will be implemented
None					

General

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission reports sent to your office.

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Emissions Reporting

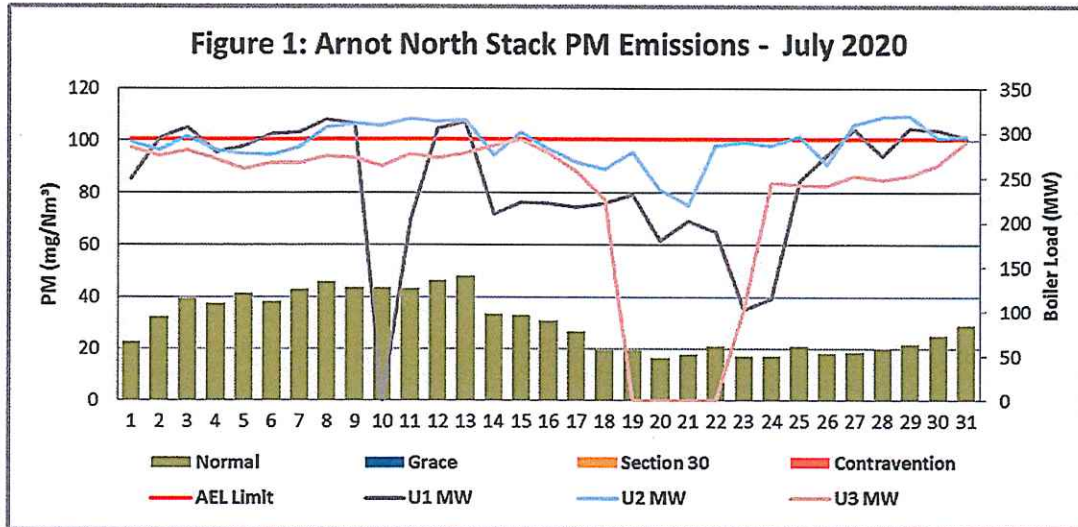


Figure 1: PM emissions (daily averages) for the month of July 2020 against emission limit for the North Stack

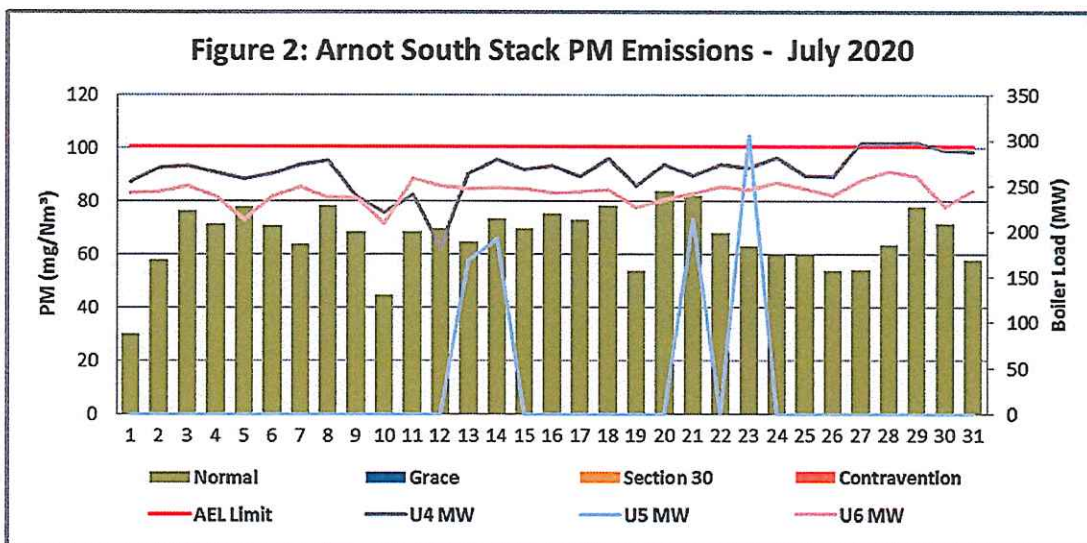


Figure 2: PM emissions (daily averages) for the month of July 2020 against emission limit for the South Stack

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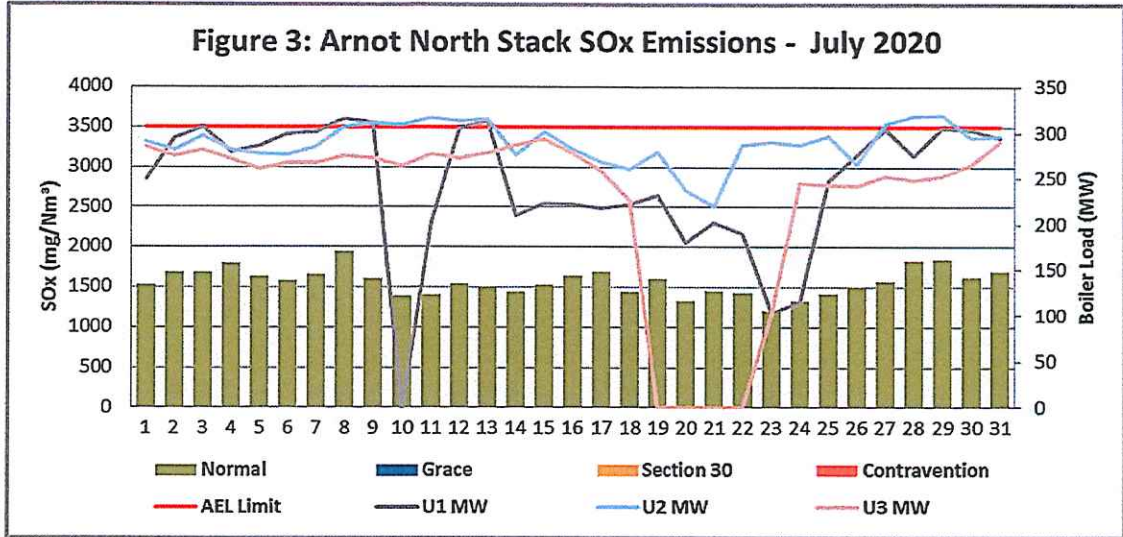


Figure 3: SO₂ emissions (daily averages) for the month of July 2020 against emission limit for the North Stack

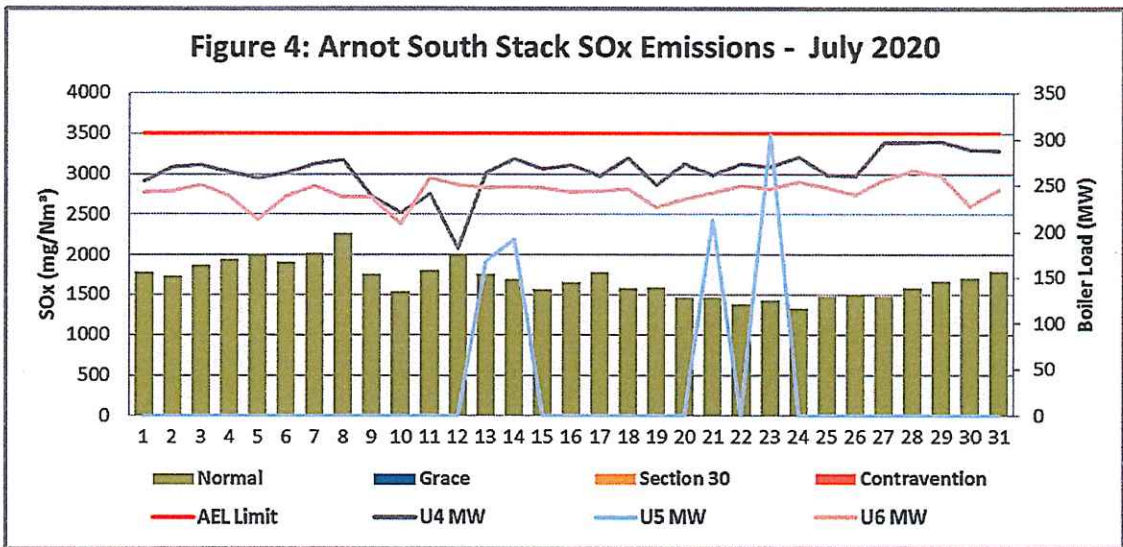


Figure 4. SO₂ emissions (daily averages) for the month of July -2020 against emission limit for the South Stack.

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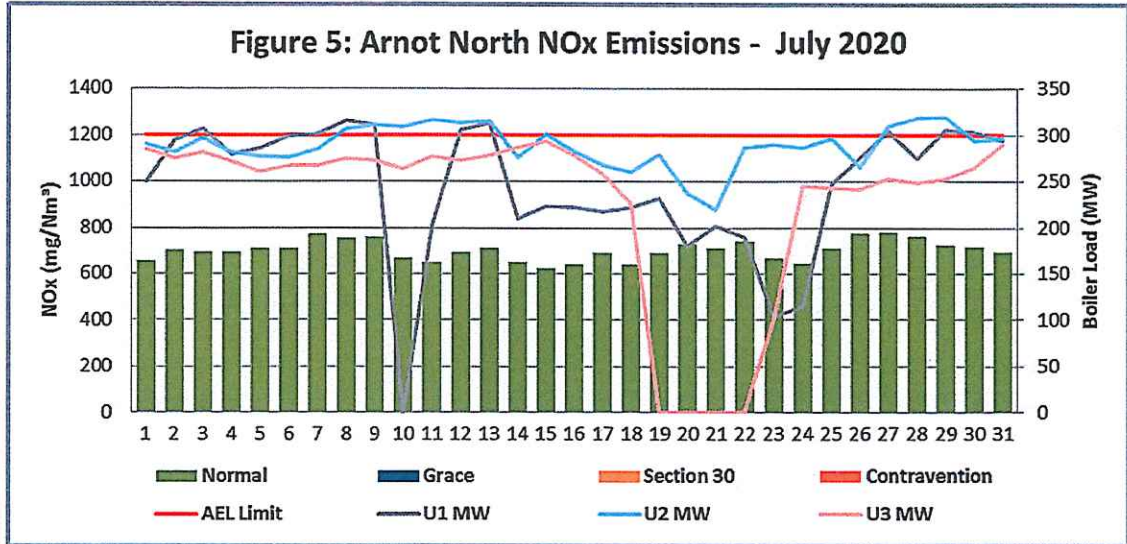


Figure 5: NO₂ emissions (daily averages) for the month of July-2020 against emission limit for the North Stack

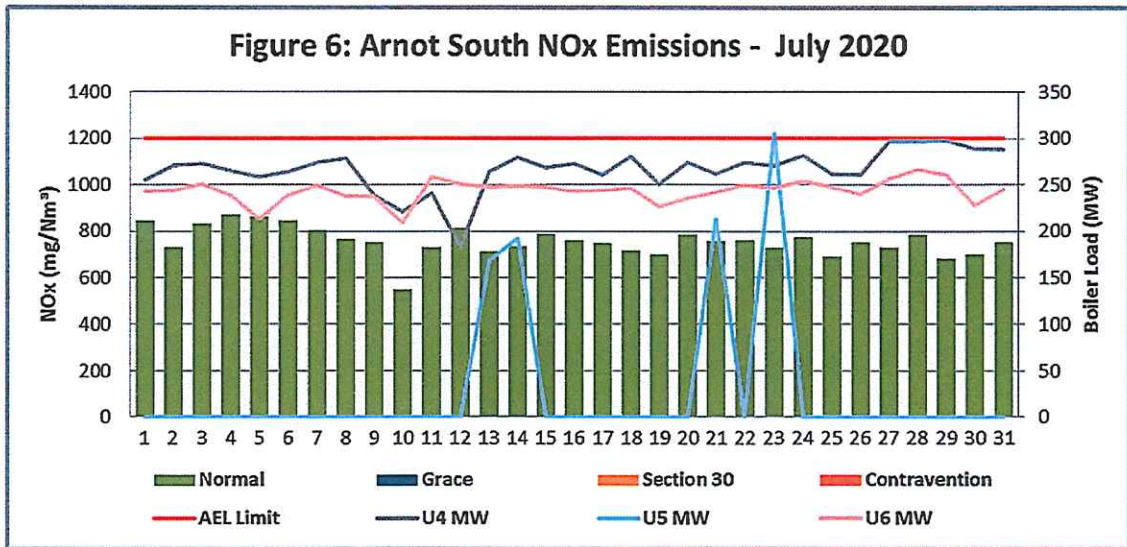
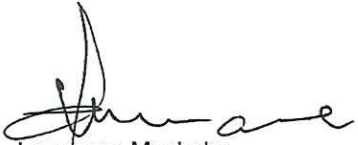


Figure 6: NO₂ emissions (daily averages) for the month of July -2020 against emission limit for the South Stack

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Hoping the above will meet your satisfaction.

Compiled by

 2020.08.28
Lawrence Machebe

ENVIRONMENTAL OFFICER: ARNOT

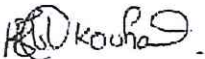
Verified by

 2020-08-21

Nomathemba Mpulo

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Yours sincerely



Ashwin Rampersad
GENERAL MANAGER: ARNOT