



Mr Vusi Mahlangu
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Date:
03 May 2017
Enquiries:
Justice Ramagoma
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Ref: R/ENV200-25 R0

Dear Mr. Mahlangu

HENDRINA POWER STATION'S ANNUAL EMISSIONS REPORT FOR 2016/2017 FINANCIAL YEAR

This serves as the annual report required in terms of Section 7.6 of Hendrina Power Station's Atmospheric Emission License (17/4/AEL/MP/313/11/16). The emissions are for Eskom's 2016/2017 financial year, which is from 1 April 2016 to 31 March 2017. Calculated emissions based on coal properties of particulates, SO₂ and NO_x (as NO₂), N₂O and CO₂ are also included.

The emissions in the table below are for 2016/2017 financial year.

Table 1. General oversight of emissions at Hendrina Power Station 2016/2017

Hendrina Power Station	Coal-fired emissions (Total tons/annum)
Particulate Matter	PM: 865.53
Gaseous Emissions	CO ₂ : 10 437501 N ₂ O: 182 693 SO ₂ : 95 218 NO _x : 39 663

Table 2. Pollutant Emission Trends for 2016/2017:

Month	PM (tons)	SO ₂ (tons)	NO _x (tons)	CO ₂ (tons)	N ₂ O (tons)
April 2016	63.34	6 035	3 250	876 754	14.678
May 2016	53.19	6 804	3 076	852 775	14.040
June 2016	48.25	6 574	2 700	708 186	12.327
July 2016	68.31	9 670	3 214	825 470	14.605
August 2016	55.44	7 591	2 793	712 072	12.663
September 2016	70.19	9 342	3 603	935 309	16.385
October 2016	102.15	11 819	4 916	124 7794	22.578
November 2016	125.51	8 437	3 638	956 059	16.814
December 2016	75.93	6 883	2 740	761 410	13.186
January 2017	92.30	9 008	3 944	105 4956	18.618
February 2017	60.84	6 620	2 856	728 347	13.149
March 2017	50.08	6 435	2 932	778 369	13.650

PM: Particulate matter (PM) is a by-product of coal combustion, in the form of fly ash emitted through stacks.

SO₂, NO_x, and CO₂, N₂O are by-products of coal combustion which are released as flue gasses through stacks.

Major upgrades projects:

No upgrades were done.

Greenhouse gas emissions:

Greenhouses gasses emitted and measured by Hendrina Power Station are CO₂ and N₂O, which are reported in this report in Table 1.

Compliance Audit Reports:

No external audits were conducted.

Explanations for instances where the minimum emission standards were exceeded

There were no exceedances of emission limits.

Most recent correlation tests/ spot tests results

The station has performed correlation test for the PM emissions on both North and South Stack in March 2017. The results of the correlation tests are attached to this report.

Availability of continuous emission monitors

Annual averages of CEMS availability		
Parameter	North stack	South Stack
PM	99%	98%
SO ₂	80%	54%
NO _x	80%	51%

Note: Notifications regarding monitor unavailability during the year have been sent to your Office during the respective month/s.

NAEIS reporting

Hendrina Power Station has submitted its annual NAEIS report onto the system.

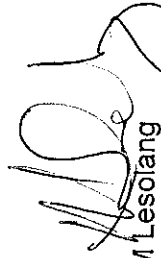
Attachments:

- PM monitor correlation report

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

Hoping the above will meet your satisfaction.

Yours sincerely



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POWER STATION MANAGER: HENDRINA