

MV Mahlangu
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Date:
05 March 2019

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Submitted via E-mail:

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Ref: ENV19-L028

Dear MV Mahlangu

RE: APPLICATION FOR VARIATION OF ATMOSPHERIC EMISSION LICENSE IN TERMS OF SECTION 46(1)(d) OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT (ACT 39 OF 2004) FOR DUVHA POWER STATION

1. Eskom refers to the above matter and herewith requests variation of the Duvha Power Station Atmospheric Emission Licenses (reference number NDM/AEL/MP312/11/07) (the AEL), in terms of Section 46(1)(d) of the National Environmental Management Air Quality Act, 39 of 2004 (the Act).
2. Eskom assumes that no delegations were made by the Licensing Authority in terms of Section 36(2) of the Act. Eskom has further not been advised of any interventions in terms of Section 36(3) of the Act.

3. Should Eskom's information in this regard be inaccurate, the Nkangala District Municipality is hereby requested to advise Eskom in that regard without delay.
4. In terms of the Integrated Resource Plan and Eskom Consistent Data Set it is intended to decommission Duvha Power Station between 2030-2034.
5. The extent of the amendment sought is as follows:

Current emission limits according to section 7.2 of Duvha Power Station's Atmospheric Emission License are:

Table 1. Existing emission limits as listed in Duvha's current AEL

Pollutant Name	Maximum release rate		
	Limit value (mg/Nm ³)	Date to be achieved by	Average period
Particulate Matter Unit 1-3	100	Immediately	Daily
	50	1 April 2020	
Particulate Matter Unit 4-6	100	Immediately	
	50	1 April 2020	
Sulphur dioxide Unit 1-3	3500	Immediately	Daily
	2300	1 April 2020 – 31 March 2025	
	500	1 April 2025	
Sulphur dioxide Unit 4-6	3500	Immediately	
	2300	1 April 2020 – 31 March 2025	
	500	1 April 2025	
Nitrogen oxides Unit 1-3	1100	Immediately	Daily
	1100	1 April 2020 – 31 March 2025	
	750	1 April 2025	
Nitrogen oxides Unit 4-6	1100	Immediately	
	1100	1 April 2020 – 31 March 2025	
	750	1 April 2025	

It is requested that the emission limits in section 7.2 of Duvha's Atmospheric Emission License be changed to Table 2:

Table 2. Requested emission limits based on a daily averaging period

Pollutant Name	Maximum release rate		
	Limit value (mg/Nm ³)	Date to be achieved by	Average period
PM Unit 1-3	50	1 April 2020	Daily
PM Unit 4-6	80		
SO ₂	2600	1 April 2020	Daily

NO _x	1100	1 April 2020	Daily
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In summary the suspension and alternative limits and postponement requested for Duvha is:

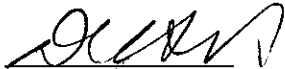
- i. Postponement of the new plant PM limit between 1 April 2020 and 31 March 2025 and an alternative daily limit of 80mg/ Nm³ for units 4, 5 & 6 until decommissioning (2030-2034) (Upgrade on Unit 4&6 PM technology to be completed by 2023 and compliance to the new plant standard thereafter is not confirmed). Units 1-3 will comply with the new plant PM limit.
 - ii. Postponement of the new plant SO₂ limit between 1 April 2020 and 31 March 2025 and an alternative daily limit for SO₂ of 2600 mg/Nm³ from 1 April 2020 until decommissioning (2030-2034).
 - iii. Postponement of the new plant NO_x limit between 1 April 2020 and 31 March 2025 (as per existing AEL) an alternative daily limit of 1100 mg/Nm³ for NO_x between 1 April 2020 and decommissioning (2030-2034).
6. Based on the remaining life of the Duvha power station, the techno-economics and cost benefits assessment shows that any additional measures other than what was committed to above is not financially viable.
 7. It is requested that the proposed alternative limits only apply during normal working conditions, and not during start-up or shut-down, upset conditions and maintenance periods.
 8. The above request is based on the assumption that the postponement application is granted as requested and further that no amendments to the regulations are effected within the next five years. In the event that the NAQO issues a decision not in line with Eskom's original postponement application or in the event that any amendments to the relevant legislation occur, Eskom reserves its rights to seek further amendments or variation to Duvha's license.
 9. The variation requested will, if approved, not comply with the Minimum Emission Standards as set out in GNR 893 of 22 November 2013 ("the Regulations") as amended in GNR 1207 on 31 October 2018 ("GNR 1207") which was promulgated in terms of Section 21 of the NEMAQA. GNR 1207 provides for transitional arrangements in respect of: a once off postponement with the compliance of minimum emissions for new plant for five years from the date of issue, no once off postponement will be valid beyond 31 March 2025; a once off suspension for plants being decommissioned by 31 March 2030; the National Air Quality Officer may grant an alternate emission limit or emission load if certain conditions are met. The application for any of these requests must be submitted by 31 March 2019.

10. In view of the above, Eskom has submitted an application to the National Air Quality Officer (NAQO) for postponement from specific MES compliance timeframes and propose alternative limits for Duvha as required in terms of GNR 1207. If approved as per the application, it will result in Eskom not being bound by the MES, for the period (5 years) during which the postponement is granted but will be bound by the proposed alternative limits per application. As such, the Nkangala District Municipality will, for that additional period of postponement, remain in a position to determine an emission standard to which Eskom must apply, exceeding that reflected in the MES.
11. The Postponement Application and this application are materially linked in that the rationale for variation of current emission limits in the AELs as well as the rationale for the Postponement Application are substantially the same. Accordingly, and in order to facilitate clear communication to stakeholders and in pursuance of the objectives of cooperative governance and integrated decision making reflected in, amongst others, the National Environmental Management Act (Act 107 of 1998), this Variation Application and the Postponement Application are supported by the same motivational documentation:
- Annexure A, a copy of the AIR prepared in respect of Duvha. The AIR provides, *inter alia*, an assessment of how ambient air quality is likely to be affected by Duvha's requested emission limits by utilising, *inter alia*, atmospheric dispersion modelling;
 - Detailed justifications and reasons for the application (as per Section 5 of the Duvha postponement application document); and
 - A comprehensive report on the public participation process followed, and associated documentation (Annexure D)
12. In terms of Paragraph (12) of the Regulations, the NAQO is required to consult with the Nkangala District Municipality before granting the Postponement Application. As such, we assume that the official process of consultation and cooperative decision making between the Nkangala District Municipality and the NAQO is either underway or imminent.
13. In terms of timing, Eskom is required to submit an AEL variation request parallel to the MES postponement application. The variation request is prepared based on the assumption that the requested MES postponement and alternative limits is granted by the NAQO. As already mentioned above, if the NAQO decision is substantially different from the requested once off suspension and alternative limits and postponement, Eskom reserves its right to amend its variation request.

14. It is Eskom's considered view that the supporting documentation clearly indicates that the approval of this Application will result in limited health impacts on affected communities and that this Application is not only reasonable, but that it also stands in the national interest due to techno-socio economic reasons. As such, should the Nkangala District Municipality require any additional information or clarification on any material or procedural aspects regarding this Application or its supporting and motivational Annexures, please do not hesitate to contact Bryan McCourt at any time, this in particular, if the Licensing Authority identifies any aspect of the application which it believes may jeopardise its likelihood to be met with approval.

For any questions, please do not hesitate to contact Bryan McCourt (Tel +27 11 800 2414).

Yours sincerely



Deidre Herbst

ESKOM ENVIRONMENTAL MANAGER



Date