

MV Mahlangu
Air Quality Officer
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Date:
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Submitted via E-mail:

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Ref: Draft for public review

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 KRIEL POWER STATION

1. Eskom refers to the above matter and herewith requests variation of the Kriel Power Station Atmospheric Emission Licenses (reference number 17/4/AEL/MP312/11/09) (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 it is intended to decommission the station by 2029.
5. The extent of the amendment sought is as follows:

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

Table 1: Existing emission limits as listed in Kriel's current AEL

Pollutant Name	Maximum release rate		
	Limit value (mg/Nm ³)	Date to be achieved by	Average period
PM	125	1 April 2015 – 31 March 2020	Monthly
	50	1 April 2020	Daily
SO ₂	3500	1 April 2015	Daily
	2800	1 April 2020 – 31 March 2025	
	500	1 April 2025	
NO _x	1600	1 April 2015-31 March 2020	Daily
	750	1 April 2020	Daily

It is requested that the emission limits in section 7.2 of Kriel's Atmospheric Emission License be changed to either Table 2 below, based on the licensing authority's preference in terms of daily and monthly averaging for PM:

Table 2: Requested emission limits based on a daily and monthly averaging period

Pollutant Name	Maximum release rate		
	Limit value (mg/Nm ³)	Date to be achieved by	Average period
PM (North Stack)	125	1 April 2020	Monthly
	100	1 April 2025	Daily
PM (South Stack)	100	1 April 2020	Daily
SO ₂	2800	1 April 2020	Daily
NO _x	1600	1 April 2020	Daily

In summary the suspension and alternative emission limits requested for Kriel is:

- A suspension from the new plant standards (PM standard (50 mg/Nm³), NO_x standard (750 mg/Nm³) and SO₂ standard (1000 mg/Nm³) until the station is decommissioned in 2029
 - Alternative PM emission limit for North Stack of 125 mg/Nm³ monthly until 1 April 2025 when upgrades complete and thereafter 100 /Nm³ daily until decommissioning
 - Alternative PM emission limit for South Stack of 100 mg/Nm³ daily from 1 April 2020 until decommissioning
 - Alternative NO_x limit of 1600 mg/Nm³ until station decommissioning
 - Alternative SO₂ limit of 2800 mg/Nm³ until station decommissioning.
6. Based on the remaining life of the Kriel 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 suspension application and proposed alternative limits are 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 suspension application and proposed alternative limits or in the event that any amendments to the relevant legislation occur, Eskom reserves its rights to seek further amendments or variation to Kriel'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 suspension of the requirement to meet 2025 compliance date and proposed alternative limits for Kriel 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 suspension 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 suspension, remain in a position to regulate an emission standard to which Eskom must apply, exceeding that reflected in the MES.

11. The Suspension 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 once off suspension application is 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 suspension application are supported by the same motivational documentation:

- Annexure A, a copy of the AIR prepared in respect of Kriel. The AIR provides, *inter alia*, an assessment of how ambient air quality is likely to be affected by Kriel's requested emission limits by utilising, *inter alia*, atmospheric dispersion modelling;
- Detailed justifications and reasons for the application (as per Section 5 of the Kriel's suspension application document); and
- A comprehensive report on the public participation process followed, and associated documentation (Annexure D).

12. In terms of Paragraph (13) of the Regulations, the NAQO is required to obtain the concurrence of 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 suspension application. The variation request is prepared based on the assumption that the requested MES once off suspension 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, 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