



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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Reference: MP/SS-GSDM/20190312
Enquiries: Derrick Makhubele
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Ms. Wilma Groenewald
Sasol South Africa Limited
Sasol Synfuels
Private Bag X1000
Secunda
2302

Email: wilma.groenewald@sasol.com

Dear Ms. Groenewald

RE: APPLICATION FOR POSTPONEMENT OF COMPLIANCE TIME-FRAMES RELATING TO THE NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT 39 OF 2004 MINIMUM EMISSION STANDARDS FOR SASOL SOUTH AFRICA LIMITED (SASOL SYNFUELS), MPUMALANGA

The above-mentioned application has reference.

Your application has been processed and the National Air Quality Officer has, with the concurrence of the Atmospheric Emission Licensing Authority, made a decision as follows:

S21 Category	Appliance	Postponement Sought	Emission Standards			Decision
			Minimum Emission Standards (mg/Nm ³)			
			Pollutant	2015	2020	
Subcategory 1.1: Solid Fuel Combustion Installations	Steam plant boilers	2020-2025	NOx	1100	750	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 1000mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			PM	100	50	
Subcategory 2.2: Catalytic Cracking Units	Synfuels Catalytic Cracker (SCC unit)	2020-2025	PM	120	100	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 300mg/Nm ³ for the period 1 April 2020 to 31



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						March 2025.
Subcategory 8.1: Thermal Treatment of General & Hazardous Waste	High Organic Waste (HOW) incinerators	2020-2025	Particulate matter (PM)	25	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 900mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Carbon monoxide	75	50	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 1300mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Oxides of sulphur	50	50	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 400mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Oxides of nitrogen	200	200	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 4000mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Hydrogen chloride	10	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 50mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Hydrogen fluoride	1	1	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 3mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Total organic compounds	10	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 113mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Sum of lead,	0.5	0.5	Postponement of compliance

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			arsenic, antimony, chromium, cobalt, copper, manganese, nickel, vanadium			timeframe with the minimum emission standards for new plant is granted with a limit of 21mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Mercury	0.05	0.05	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 0.43mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Cadmium + thallium	0.05	0.05	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 0.12mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Ammonia	10	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 13mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Dioxins and furans	0.1	0.1 ^{note2}	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 4.2mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Exit gas temperatures must be maintained below 200oC			Exit gas temperatures must be less than 400oC from 01 April 2020 to 31 March 2025
Subcategory 8.1: Thermal Treatment of General & Hazardous Waste	Bio-sludge incinerators	2020-2025	Particulate matter (PM)	25	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 800mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Carbon monoxide	75	50	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 4310mg/Nm ³ for the period 1 April 2020 to 31 March 2025.

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			Oxides of sulphur	50	50	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 210mg/Nm³ for the period 1 April 2020 to 31 March 2025.
			Oxides of nitrogen	200	200	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 630mg/Nm³ for the period 1 April 2020 to 31 March 2025.
			Hydrogen chloride	10	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 20mg/Nm³ for the period 1 April 2020 to 31 March 2025.
			Hydrogen fluoride	1	1	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 20mg/Nm³ for the period 1 April 2020 to 31 March 2025.
			Total organic compounds	10	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 3675mg/Nm³ for the period 1 April 2020 to 31 March 2025.
			Sum of lead, arsenic, antimony, chromium, cobalt, copper, manganese, nickel, vanadium	0.5	0.5	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 8mg/Nm³ for the period 1 April 2020 to 31 March 2025.
			Mercury	0.05	0.05	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 2.5mg/Nm³ for the period 1 April 2020 to 31 March 2025.

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			Cadmium + thallium	0.05	0.05	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 0.12mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Ammonia	10	10	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 100mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
			Dioxins and furans	0.1	0.1 ^{note2}	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 0.3mg/Nm ³ for the period 1 April 2020 to 31 March 2025.
Subcategory 7.3: Production of Chemical Fertilizer	Ammonium nitrate plant @SCO	2020-2025	PM	100	50	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 50mg/Nm ³ on a wet basis for the period 1 April 2020 to 31 March 2025.
			Ammonia	100	50	Postponement of compliance timeframe with the minimum emission standards for new plant is granted with a limit of 180mg/Nm ³ on a wet basis for the period 1 April 2020 to 31 March 2025.
Subcategory 2.4 and Category 6: Storage & Handling of Petroleum and Chemical products	Petroleum & Chemical Storage Tanks	2020-2025	Total volatile organic carbon		Note 3	Postponement of compliance timeframe with the minimum emission standards for new plant is granted from 1 April 2020 to 31 March 2025 on condition that a detailed plan and schedule for the retrofit of tanks as determined by the approach detailed in the postponement application is provided to Department of Environmental Affairs, Forestry and Fisheries. Emissions are to be incorporated into the site fugitive emissions monitoring and management plan during this period

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* All minimum emission standards are expressed on a daily average basis, under normal conditions of 273 Kelvin and 101.3 kPa^{Note1}

Note 1: Monthly average where continuous online monitoring is done.

Note 2: ng I-TEQ/Nm³ under normal conditions of 10% oxygen, 273 Kelvin and 101.3 kPa.

Note 3: Secunda Synfuels Operations, Secunda Chemicals Operations and Sasol Oil: Motivation for the postponement of compliance timeframes in terms of Regulation 11 of the Listed Activities and associated Minimum Emission Standards identified in terms of Section 21 National Environmental Management: Air Quality Act 39 of 2004 as amended

This decision will have to be reflected in your Atmospheric Emission License to be of force and effect. Therefore, you must liaise with the relevant Atmospheric Emission Licensing Authority in this regard as soon as possible so that the required amendments, variations and additions to your Atmospheric Emission License can be effected.

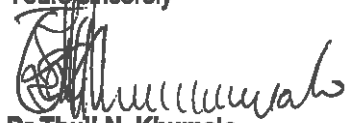
In addition, you are required to submit a quarterly progress report on the implementation of your compliance road map and commitments that you made in support of the postponement application for Sasol South Africa Limited (Sasol Synfuels). You are also required to provide a progress report on implementation of offset projects where applicable, as well as other reporting requirements included in the AEL. The reports must be submitted to the National Air Quality Officer and the Licensing Authority following the department's financial year. The first report must be submitted by 1 April 2020.

Continuous emission monitoring (online analyzers) must be installed on one high organic waste incinerator and one bio-sludge incinerator and other incinerators are to be monitored periodically until the completion of the incinerator abatement project aimed towards achieving compliance with the new plant standards. These monitoring results must be presented in a quarterly emissions monitoring report to the local licensing authority.

Lastly, Sasol South Africa Limited (Sasol Synfuels) is required to implement an offset programme to reduce PM and SO₂ pollution in the ambient/receiving environment as your facility is located in the Highveld Priority Area. A definite offset implementation plan is expected from Sasol South Africa Limited (Sasol Synfuels) by 31 January 2020.

Thank you for the co-operation in matters regarding your application.

Yours sincerely



Dr Thull N. Khumalo

Department of Environmental Affairs

Designation: National Air Quality Officer

Date:

20/11/2019