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Ref: MP/SAS-S/20140328 Enquiries: Mr V. Senene

Tel: 012 399 9217 Fax: 012 359 3619 Email: VSenene@environment.gov.za

Attention: Ms Wrenelle Stander

Sasol Limited P.O. Box 234 Sasolburg 1947

Dear Applicant,

## RE: APPLICATION FOR POSTPONEMENT OF COMPLIANCE TIME-FRAMES WITH NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT 39 OF 2004 S21 MINIMUM EMISSION STANDARDS FOR SASOL SECUNDA

The above-mentioned application has reference.

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

S21 Category	Appliance	Postponement			Em	ission Standards
		Sought		Minimum Emission Standards (mg/Nm³)		Decision
			Pollutant	2015	2020	
Subcategory 1.1: Solid Fuel Combustion Installations*	Steam Plant	2015 – 2020	PM	100	50	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2020 with a limit of 120 mg/Nm <sup>3</sup> .
			SO <sub>2</sub>	3500	500	Postponement of compliance with the minimum emission standards for new plant is granted from 01 April 2020 to 31 March 2025 with a limit of 2000 mg/Nm <sup>3</sup> during this period. The requirement to comply with minimum emission standards for existing plant remains in place.

S21 Category	Appliance	ance Postponement	Emission Standards					
		Sought		num Emi		Decision		
			Stand	lards (mg	$/Nm^3$ )			
			NO <sub>x</sub> express ed as NO <sub>2</sub>	1100	750	Our finding is that the facility is operating in compliance with the 2015 standards and so the postponement application is declined. The requirement to comply with minimum emission standards for existing plant remains in place.		
Subcategory 2.2: Catalytic Cracking Unit*	Superflex Catalytic Cracker	2015 – 2021	PM	100	50	Postponement of compliance with the minimum emission standards for existing from 01 April 2015 to 31 March 2020 with a limit of 330 mg/Nm³ during this period.		
Subcategory 3.6 Synthetic Gas Production & Cleanup**	Rectisol & Sulphur Recovery Plants	2015-2020	H <sub>2</sub> S	4200	3500	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2020 with a limit of 8400 mg/Nm³ during this period.		
	b		TVOCs	250	130	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2020 with a limit of 300 mg/Nm³ during this period.		
			SO <sub>2</sub>	3500	500	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2017 and the facility is required to undertake emission measurement and to report quarterly until 01 April 2017. The minimum emission standard for existing plant of 3500 mg/Nm³ will be applicable during this period.		
Subcategory 3.6 Synthetic Gas Production & Cleanup**	Phenosolva n	2015-2020	TVOCs	250	130	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 and the facility is required to undertake emission measurement and to report quarterly until 01 April 2018. The minimum emission standard for existing plant of 250 mg/Nm³ will be applicable during this period.		
Subcategory 3.3 and 3.6 Tar Processes Synthetic Gas Production & Cleanup**	Sources in Tar Value Chain- Value 1	2015-2020	TVOCs	250	130	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2017. Emissions are to be incorporated into the site fugitive emissions monitoring plan.		

S21 Category	Appliance	Postponement	Emission Standards				
		Sought		mum Emission dards (mg/Nm <sup>3</sup> )	Decision		
Subcategory 3.3: Tar Processes	Sources in Tar Value Chain- Value 2	2015 – 2020	TVOCs	Type 3 storage vessels shall be of the following type: a) External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b) fixed-roof tank with internal floating deck/roof fitted with primary seal, or c) Fixed roof tank with vapour recovery system	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2017. Emissions are to be incorporated into the site fugitive emissions monitoring plan.		
Category 6: Organic Chemicals Industry	Storage Tanks (Solvents)	2015 - 2020	TVOCs	All installations with a throughput of greater than 50,000m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery or vapour destruction units. Emission limits for vapour recovery/destruction using non-thermal treatment: Existing plant standard: 40 000 & New plant standard: 40 000	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2020 on condition that a detailed plan and schedule for the retrofit is provided to Department of Environmental Affairs. Emissions are to be incorporated into the site fugitive emissions monitoring plan during this period.		
Subcategory 2.4:	Storage Tanks	2015 - 2020	TVOC	Type 3 storage vessels shall be	Postponement of compliance with the minimum emission standards for		

S21 Category	Appliance	Appliance Postponement		Emission Standards					
		Sought	1000000	num Emission lards (mg/Nm³)	Decision				
Storage & Handling of Petroleum Products	(Synfuels)			of the following type: a) External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b) fixed-roof tank with internal floating deck/roof fitted with primary seal, or c) Fixed roof tank with vapour recovery system	existing plant is granted from 01 April 2015 to 31 March 2020 on condition that a detailed plan and schedule for the retrofit is provided to Department of Environmental Affairs. Emissions are to be incorporated into the site fugitive emissions monitoring plan during this period.				
Subcategory 2.4: Storage & Handling of Petroleum Products	Storage Tanks (Sasol Oil)	2015 - 2020	TVOC	Type 3 storage vessels shall be of the following type: a) External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b) fixed-roof tank with internal floating deck/roof fitted with primary seal, or c) Fixed roof tank with vapour recovery system	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2020 on condition that a detailed plan and schedule for the retrofit is provided to Department of Environmental Affairs. Emissions are to be incorporated into the site fugitive emissions monitoring plan during this period.				
Subcategory 2.4: Storage & Handling of Petroleum Products	Loading Station	2015 - 2020	TVOC	All installations with a throughput of greater than 50,000m³ per annum of products with a	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2020. Emissions are to be incorporated into the site fugitive emissions monitoring plan during this period.				

S21 Category	Appliance	Postponement	la a de la co	nission Standards		
		Sought		num Emis ards (mg/		Decision
				vapour greater kPa, mu fitted wi vapour or vapour destruct units. Elimits for recovery tion usir thermal treatme Existing standard New pla	pressure than 14 ust be th recovery ur tion mission r vapour y/destruc ng non- nt: plant d: 40 000	
Sub-category 7.2: Production of Acids**	Wet Sulphuric Acid Plant	2020-2025	SO <sub>2</sub>	2800	350	Postponement of compliance with the minimum emission standards for new plant is declined as the appliance is in compliance with the minimum emission standards for existing plant and there are no reliable measurement results indicating that the facility will not comply with the minimum emission standards for new plant.
			SO <sub>3</sub>	100	25	Postponement of compliance with the minimum emission standards for new plant is declined as the appliance is in compliance with the minimum emission standards for existing plant and there are no reliable measurement results indicating that the facility will not comply with the minimum emission standards for new plant.
Sub-category 8.1: Thermal Treatment of Hazardous & General	HOW Incinerators	2015-2020	PM	25	10	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 400 mg/Nm³ during this period.
Waste*		Si .	NO <sub>X</sub> express ed as NO <sub>2</sub>	200	200	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 1600 mg/Nm³ during this period.

S21 Category	Appliance	Postponement	Emission Standards					
		Sought		num Emis ards (mg/		Decision		
			HF	1	1	Postponement of compliance with the minimum emission standards for existing plant is declined as emission results were below detection limit.		
		***	Sum of Pb, As, Sb, Cr, Co, Cu, Mn, Ni and V.	0.5	0.5	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 21 mg/Nm³ during this period.		
			Hg	0.05	0.05	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 0.27 mg/Nm³ during this period.		
	# 1 AV		Cd & TI	0.05	0.05	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 0.12 mg/Nm³ during this period.		
	А	*	TOC	10	10	Postponement of compliance with the minimum emission standards for existing plant is not granted as there		
						are no reliable emission measurements to indicate current performance. The requirement to comply with minimum emission standards for existing plant remains in place.		
	× = = =		Exit gas to be mainta			Exit gas temperatures must be between 350°C and 400°C from 01 April 2015 to 31 March 2018.		
Sub-category 8.1: Thermal Treatment of Hazardous & General	Biosludge Incinerators	2015-2020	PM	25	10	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 300 mg/Nm³ during this period.		
Waste*			CO	75	50	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 3000 mg/Nm³ during this period.		
			SO <sub>2</sub>	50	50	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 70 mg/Nm³ during this period		
			NO <sub>X</sub>	200	200	Postponement of compliance with the		

S21 Category	Appliance	Postponement	Emission Standards					
		Sought		num Emi lards (mg		Decision		
			express ed as NO <sub>2</sub>			minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 500 mg/Nm³ during this period.		
			HF	1	1	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 20 mg/Nm³ during this period.		
			HCI	10	10	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 12 mg/Nm³ during this period.		
		*	Sum of Pb, As, Sb, Cr, Co, Cu, Mn, Ni and V.	0.5	0.5	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 1 mg/Nm³ during this period.		
			Hg	0.05	0.05	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 0.5 mg/Nm³ during this period.		
			Cd & Tl	0.05	0.05	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 0.12 mg/Nm³ during this period.		
		×	TOC	10	10	Postponement of compliance with the minimum emission standards for existing plant is declined as there are emission results to indicate current emission levels. The requirement to comply with minimum emission standards for existing plant remains in place.		
			NH <sub>3</sub>	10	10	Postponement of compliance with the minimum emission standards for existing plant is granted from 01 April 2015 to 31 March 2018 with a limit of 30 mg/Nm³ during this period.		
Sub-category	Sewage	2015-2020	PM	25	10	Postponement of compliance with the		
8.1: Thermal	Solids	an attraction of Assertable — MCC	СО	75	50	minimum emission standards for		
Treatment of Hazardous &	Incinerators		SO <sub>2</sub>	50	50	existing plant is granted from 01 April 2015 to 31 March 2017 in order for the		

S21 Category	Appliance	Postponement			Em	ission Standards	
		Sought	The state of the s	mum Em lards (mo		Decision	
General Waste*			NO <sub>X</sub> express ed as NO <sub>2</sub>	200	200	facility to undertake emission measurement and to report to the Department of Environmental Affairs quarterly until 31 March 2017.	
			HF	1	1		
			HCI	10	10		
			Sum of Pb, As, Sb, Cr, Co, Cu, Mn, Ni and V.	0.5	0.5		
			Hg	0.05	0.05	70 E	
		-	Cd & TI	0.05	0.05		
			TOC	10	10		
			NH <sub>3</sub>	10	10		
		6	PCDD/P	0.1	0.1		
			CDF***				
	3		Exit gas to		ures must	Exit gas temperatures must be between 350°C and 400°C	

<sup>\*</sup> Minimum emission standards are expressed on a daily average basis, under normal conditions of 273 K, 101.3 KPa, 10% oxygen and dry gas.

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

In addition, Sasol is required to implement an offset programme to reduce PM and SO<sub>2</sub> pollution in the ambient/receiving environment. A definite offset implementation plan is expected from Sasol as agreed by 30 June 2015.

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

<sup>\*\*</sup> Minimum emission standards are expressed on a daily average basis, under normal conditions of 273 K and 101.3 KPa

<sup>\*\*\*</sup>Minimum emission standards expressed as ng I-TEQ /Nm3 under under normal conditions of 273 K, 101.3 KPa, 10% oxygen, dry gas and on a daily average basis.

Yours sincerely,

Dr Thuli N. Mdluli

Department of Environmental Affairs
Designation: National Air Quality Officer

Date: 23/02/2015