



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

WASTE LICENSE VARIATION APPLICATION FORM FOR AN EXISTING WASTE LICENCE

Details of Current License:

Current License or Permit reference number	12/9/11/L50/5/R1
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The Proposed Modification:

Give details of changes required in the Waste Management Licence/ Waste Permit:

Condition Number	Condition as written in the current Waste Management Licence/ Waste Permit	Proposed condition	Motivation for change
In the table below words, phrases or sentences that are proposed for variation are highlighted in grey filling. Proposed variations in the words, phrases or sentences proposed are presented in bold font in column 2.			
1.1.1	This Licence authorises the construction of the above ground temporary ashing facility and its associated infrastructure (installation of the aboveground ash facility and construction of the overland ash conveyor belt to dispose ash at the Medupi coal fired power station ashing facility	This Licence authorises the construction of the above ground temporary waste disposal (ash and gypsum) facility and its associated infrastructure (installation of the aboveground waste disposal (ash and gypsum) facility and construction of the overland ash and gypsum conveyor belts to dispose ash and gypsum at the Medupi coal fired power station	This application for variation aims to obtain approval from the Department of Environmental Affairs: Waste Directorate to dispose ash and gypsum, which are both Type 3 wastes, on the authorised ash disposal facility footprint. Since this condition only refers to the disposal of ash on an ash disposal facility, it is proposed to amend the

	located on 1000ha of the Farm Eenzaamheid 587 LQ within the jurisdiction of Lephalale Local Municipality, Limpopo Province (herein after referred to as the "site").	waste disposal facility located on 1000ha of the Farm Eenzaamheid 587 LQ within the jurisdiction of Lephalale Local Municipality, Limpopo Province (herein after referred to as the "site").	wording to reflect the disposal of ash and gypsum together on the same facility. It is furthermore proposed to change the reference from <i>ash disposal facility</i> to a <i>waste disposal facility</i> to be inclusive of the disposal of gypsum, as a Type 3 waste, on the same facility.																																				
1.1.2	Title of second table "Ash disposal facility"	Title of second table "Waste disposal facility"	The change in table heading is proposed to be inclusive of gypsum, as the other Type 3 waste to be disposed at the same facility.																																				
1.1.2	Addition of coordinate tables for temporary gypsum loading area and Gypsum Storage Building	<p>Temporary gypsum loading area</p> <table border="1"> <thead> <tr> <th>Number of Corners</th> <th>Longitude (DD)</th> <th>Latitude (DD)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>27.55877 E</td> <td>23.70755 S</td> </tr> <tr> <td>B</td> <td>27.55993 E</td> <td>23.70694 S</td> </tr> <tr> <td>C</td> <td>27.56096 E</td> <td>23.70858 S</td> </tr> <tr> <td>D</td> <td>27.55982 E</td> <td>23.70919 S</td> </tr> <tr> <td>E (Centroid)</td> <td>27.55986 E</td> <td>23.70806 S</td> </tr> </tbody> </table> <p>Gypsum Storage Building</p> <table border="1"> <thead> <tr> <th>Number of Corners</th> <th>Longitude (DD)</th> <th>Latitude (DD)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>27.55080 E</td> <td>23.71175 S</td> </tr> <tr> <td>B</td> <td>27.55241 E</td> <td>23.71093 S</td> </tr> <tr> <td>C</td> <td>27.55307 E</td> <td>23.71204 S</td> </tr> <tr> <td>D</td> <td>27.55145 E</td> <td>23.71286 S</td> </tr> <tr> <td>E (Centroid)</td> <td>27.55194 E</td> <td>23.71189 S</td> </tr> </tbody> </table>	Number of Corners	Longitude (DD)	Latitude (DD)	A	27.55877 E	23.70755 S	B	27.55993 E	23.70694 S	C	27.56096 E	23.70858 S	D	27.55982 E	23.70919 S	E (Centroid)	27.55986 E	23.70806 S	Number of Corners	Longitude (DD)	Latitude (DD)	A	27.55080 E	23.71175 S	B	27.55241 E	23.71093 S	C	27.55307 E	23.71204 S	D	27.55145 E	23.71286 S	E (Centroid)	27.55194 E	23.71189 S	The associated infrastructure for the management and conveyance of gypsum to the disposal facility and offtake of gypsum require two gypsum storage areas, one for storage and loading onto vehicles/truck (Temporary gypsum storage area), and a 2 nd area for storage of sellable gypsum for offtake via rail (Gypsum Storage Building). These two areas must be licenced, therefore the corner coordinates and centre point coordinate of the area to be licenced is proposed to be included under condition 1.1.2.
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1.2	Reference to this WML Variation Application to be included.	Inclusion of this Application for Variation of the existing WML proposed as follow: <i>1.2.6 Waste Management Licence Variation Application dated 5 March 2018.</i>	Section 1.2 will require reference to the current WML Variation Application being undertaken in the documents considered section.																																				
2.1.4	The Licence Holder must submit a revised environmental management plan "EMP" for the construction of the future cells to the Director for approval before commencement of any future cells of the ash	The Licence Holder must submit a revised environmental management plan "EMP" for the construction of the future cells to the Director for approval before commencement of any future cells of the waste disposal facility stipulated in this licence. The EMP must be submitted at	The proposed change in wording from " <i>ash disposal facility</i> " to " <i>waste disposal facility</i> " is proposed to be more inclusive of the disposal of gypsum, another Type 3 waste, on the authorised disposal facility.																																				

	disposal facility stipulated in this licence. The EMP must be submitted at least (6) months prior to the commencement of construction. The EMP must include but not limited to the following aspects:-	least (6) months prior to the commencement of construction. The EMP must include but not limited to the following aspects:-	
3.1	Any portion of the Site, which has been constructed or developed according to condition 4 below may be used for the treatment, emergency storage and disposal of hazardous waste (ash only).	Any portion of the Site, which has been constructed or developed according to condition 4 below may be used for the treatment, emergency storage and disposal of hazardous waste (ash and gypsum).	The variation application aims to authorised the disposal of ash and gypsum together on the existing disposal facility. Therefore the proposed change of the specific type of waste in brackets must be amended from “ash only” to “ash and gypsum” to allow to disposal of these two wastes together on the authorised disposal facility.
4.7	The maximum height of the site must not exceed elevation as per the visual impact assessment recommendations which must be submitted to the Director for approval.	The maximum height of the site must not exceed elevation as per the approved engineering design and as per the height assessed by the visual impact assessment which must be submitted to the Director for approval.	The maximum height of the site was established through the engineering design process undertaken by a registered engineer. The final facility height was assessed by the visual specialist, which concluded that the impact would be moderate and within acceptable impact limits given the characteristics of the receiving environment.
5.1.9	Indigenous vegetation must be established and maintained around the ash disposal facility paying attention to the blending with the natural environment.	Indigenous vegetation must be established and maintained around the waste disposal facility paying attention to the blending with the natural environment.	The proposed change in wording from “ash disposal facility” to “waste disposal facility” is proposed to be more inclusive of the disposal of gypsum, another Type 3 waste, on the authorised disposal facility.
6.1.3	The Licence Holder must put in place a monitoring and measurement plan that must amongst others include: (a) Compaction ratio; (b) Air space monitoring;	The Licence Holder must put in place a monitoring and measurement plan that must amongst others include: (a) Compaction ratio; (b) Air space monitoring; (c) Waste disposal facility	The proposed change in wording from “ash disposal facility” to “waste disposal facility” is proposed to be more inclusive of the disposal of gypsum, another Type 3 waste, on the authorised

	(c) Ash disposal facility stability; (d) Noise Assessment; (e) Ground water and surface water quality monitoring including contaminated storm water.	stability: (d) Noise Assessment; (e) Ground water and surface water quality monitoring including contaminated storm water.	disposal facility.
6.2.1	The Medupi aboveground future cells ashing facility must be lined according to the Norms and Standards for Waste disposal, GN.R.636, of 23 August 2013, to minimise the seepage of pollutants into the ground water.	The Medupi aboveground future cells waste disposal facility must be lined according to the Norms and Standards for Waste disposal, GN.R.636, of 23 August 2013, to minimise the seepage of pollutants into the ground water.	The proposed change in wording from “ <i>ashing facility</i> ” to “ <i>waste disposal facility</i> ” is proposed to be more inclusive of the disposal of another Type 3 waste, gypsum, on the existing disposal facility.
6.2.2	The licence holder must install a technologically advanced drainage and monitoring system as part of the Medupi ashing facility to prevent pollution through seepage.	The licence holder must install a technologically advanced drainage and monitoring system as part of the Medupi waste disposal facility to prevent pollution through seepage	The proposed change in wording from “ <i>ashing facility</i> ” to “ <i>waste disposal facility</i> ” is proposed to be more inclusive of the disposal of gypsum, another Type 3 waste, on the authorised disposal facility.
6.2.4	The licence holder must establish and maintain a monitoring borehole network for the site whereby there is at least one upstream and another downstream for each aquifer hydro-geologically linked to the ash dump.	The licence holder must establish and maintain a monitoring borehole network for the site whereby there is at least one upstream and another downstream for each aquifer hydro-geologically linked to the waste disposal facility .	The proposed change in wording from “ <i>ash dump</i> ” to “ <i>waste disposal facility</i> ” is proposed to be more inclusive of the disposal of gypsum, another Type 3 waste, on the authorised disposal facility.

Will the amendment amount to increase in the environmental impact regulated by the waste management license?

NO

If yes:

- attach waste impact report
- Attach proof of notification of relevant organs of state
- Attach proof of notification of interested and affected parties

WASTE LICENSE VARIATION: MEDUPI ADFWML (12/9/11/L50/5/R1)

A technical motivation report has been attached to this application form providing an assessment and motivation for the proposed variations to the existing WML, which include:

1. Proposed substitution of "ash" and "ashing" with "waste" or "waste disposal facility" to show inclusion of gypsum with ash in the authorised disposal facility
2. Disposal of ash and gypsum together on the existing waste disposal facility
3. Proposed reduction of the footprint, but increase in height of the waste disposal facility from 60m to 72m
4. Authorisation of infrastructure for the conveyance and disposal of gypsum onto the existing ash conveyor belt



D.L. Herbst on behalf of

Signature of Applicant

Estorn Holdings

Name of company:

02 March 2018

Date:

02/03/2018

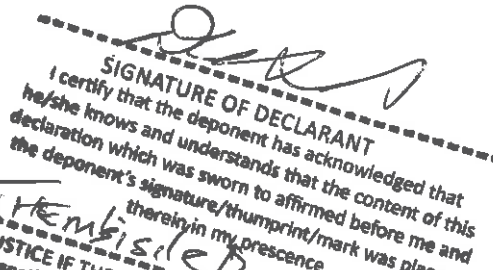
Signature of the Commissioner of Oaths:

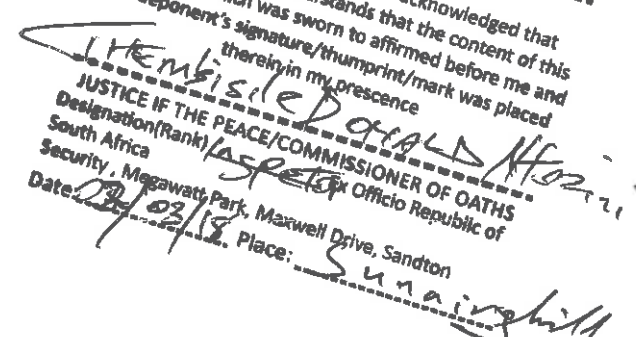


Date:

Senior Inspector

Designation:


SIGNATURE OF DECLARANT
I certify that the deponent has acknowledged that he/she knows and understands that the content of this declaration which was sworn to affirmed before me and the deponent's signature/thumbprint/mark was placed therein in my presence


THEMBISILE DOGALD HORZEL
JUSTICE IF THE PEACE/COMMISSIONER OF OATHS
Designation(Rank) / ASPECT
South Africa
Security, Mogawatt Park, Maxwell Drive, Sandton
Date: 02/03/18. Place: Sunninghill

Official stamp (Above)

Enquiries: The Director: Licensing,

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