



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

RISK MANAGEMENT PLAN IN TERMS OF REGULATION 10 OF WASTE EXCLUSION REGULATIONS

APPLICANT	Sasol South Africa (Ltd)		
SOURCE(S) OF WASTE	Sasolburg Operations (Steam Station I & II)		
WASTE TO BE BENEFICIATED	Weathered fine ash		
BENEFICIAL USE/S	Sasol Weathered fine ash may be beneficially utilised in the construction and agricultural sectors. Its uses may include but are not limited to: (a) Road construction; (b) Foundations; (c) Backfill in mine workings; (d) Landfill capping.		
SDS ATTACHED IF HAZARDOUS	YES X	NO	
WASTE GENERATING FACILITY	Sasolburg Operations (Steam Station I & II)		
PHYSICAL ADDRESS	Klasie Havenga Road, Sasolburg, 1947		

<p>GPS CO-ORDINATES OF WASTE GENERATING FACILITY (e.g. 60° 29' 30" Latitude; 34° 20' 15" Longitude)</p>	<p>Coarse Ash dump and the fine ash dam 1,2 & 3 complex</p> <p>26°49'28.34"S: 27°50'11.06"E</p> <p>26°49'50.27"S: 27°50'23.71"E</p> <p>26°50'20.40"S: 27°50'5.04"E</p> <p>26°50'8.79"S: 27°49'33.59"E</p> <p>26°49'48.31"S: 27°49'28.40"E</p> <p>Fine ash Dam 1 & 2 centre point: 26°49'54.98"S: 27°50'10.996"E</p> <p>Fine ash dam 3 centre point: 26°50'6.565"S: 27°50'1.168"E</p> <p>Fine ash dam 4</p> <p>26°50'9.40"S: 27°49'32.30"E</p> <p>26°50'18.07"S: 27°49'57.48"E</p> <p>26°50'27.48"S: 27°49'48.73"E</p> <p>26°50'23.55"S: 27°49'43.07"E</p> <p>26°50'33.22"S: 27°49'33.48"E</p> <p>26°50'23.50"S: 27°49'18.98"E</p> <p>Fine ash dam 5</p> <p>26° 50' 43.3962"S: 27° 49' 27.3138"E</p> <p>26° 50' 21.8904" S: 27° 48' 59.5038"E</p> <p>26° 53' 3.6096" S: 27° 48' 45.6012"E</p> <p>26° 50' 54.1458"S: 27° 48' 50.7918"E</p>		
<p>POSTAL ADDRESS</p>	<p>P.O. Box 1 Sasolburg 1947</p>		
<p>CONTACT PERSON</p>	<p>Pieter de Beer (Sasolburg Operations (SO): Senior Manager GLUC, Utilities)</p>		
<p>TELEPHONE</p>	<p>+27 16 960 3158</p>	<p>CELL:</p>	<p>+27 82 804 0242</p>
<p>EMAIL</p>	<p>Pieter.debeer@sasol.com</p>	<p>FAX:</p>	

RISK MANAGEMENT PLAN

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to do it)
1. Loading of ash onto trucks	Loss of containment of ash	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during loading of ash through wetting of ash Stop loading of ash during extreme wind conditions 	<ul style="list-style-type: none"> Ash generator i.e. Sasolburg Operations and Secunda Operations
		Corrective mitigation measure <ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) during ash loading 	<ul style="list-style-type: none"> Ash generator employees Ash transporter employees
2. Transportation of ash	Loss of containment of ash	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during transportation of ash through covering of trucks) 	<ul style="list-style-type: none"> Ash transporters
		Corrective mitigation measure <ul style="list-style-type: none"> None Preventative mitigation measure <ul style="list-style-type: none"> Compliance with the Road Traffic Act; Sasol Transport Policy and Procedures; Access to ash limited to customers and transporters that have commercial contracts with Sasol. Corrective mitigation measure <ul style="list-style-type: none"> Implementation of the Emergency response plan; Use of Safety Data Sheet (SDS) with hazard classification which is provided to all customers and transporters. 	
3. Off-loading of ash	Loss of containment of ash	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during loading of ash through wetting of ash Stop off-loading of ash during extreme wind conditions Corrective mitigation measure <ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) during ash off-loading 	<ul style="list-style-type: none"> Ash transporters Ash users
4. Storage of ash	Loss of containment of ash	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during loading of ash through wetting of ash Avoid loading of ash during extreme wind conditions 	<ul style="list-style-type: none"> Ash users
		Corrective mitigation measure <ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) when working in ash storage area 	
		Preventative mitigation measure <ul style="list-style-type: none"> Storage area designed to prevent rainfall run-off from carrying ash away Discourage excessive storage of ash - Facilities storing more than a 100 m³ of ash at a time, should have a firm impermeable surface on which to place the ash and a system to collect and store run-off arising from the ash storage facility. Corrective mitigation measure <ul style="list-style-type: none"> The use of Safety Data Sheet (SDS) with hazard classification which is provided to all ash users. Clean-up plan to be implemented where ash is carried away from storage area 	
5. Handling of ash (i.e. screening, crushing, blending etc.)	Loss of containment of ash	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during loading of ash through wetting of ash Adherence to production process and product standards and regulations Corrective mitigation measure	<ul style="list-style-type: none"> Ash users

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to do it)
		<ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) during ash handling 	
a. Brickmaking; b. Block making; c. Production of cement.	The point at which coal ash enters the production process of bricks, blocks and cement to the actual products is outside the scope of this risk assessment. The incorporation of coal ash into these existing production processes is matured. The quality of the products from these processes is regulated by relevant standards.		Ash users
6. Disposal of ash and ash containing products	Loss of containment of ash	Preventative mitigation measure <ul style="list-style-type: none"> The use of Safety Data Sheet (SDS) where disposal guidance is provided. The use of the National Norms and standard for the assessment of waste for disposal and the Regulations for the classification and management of waste. Corrective mitigation measure <ul style="list-style-type: none"> Clean-up plan to be implemented where ash is not disposed properly. 	Ash users
7. Residual ash stockpiled after closure, decommissioning or change of ownership of user facility	Loss of containment of ash	Preventative mitigation measure <ul style="list-style-type: none"> Contractual agreement with ash customers to include the following clause: <i>"The owner of the facility, including the subsequent owner of the facility will remain responsible for any adverse impacts on the environment and health stemming from stockpiled ash, even after operations have ceased."</i> Corrective mitigation measure <ul style="list-style-type: none"> Land remediation 	Ash users

DECLARATION

I, Pieter de Beer hereby declare that I have read the completed Risk Management form and hereby confirm that the information is to the best of my knowledge true and correct.

Furthermore, I declare that I am fully aware of my responsibilities in terms of the Waste Exclusion Regulations, and that failure to comply with these Regulations may constitute an offence in terms of the National Environmental Management: Waste Act, 2008 (Act 59 of 2008).

Applicant (Full names) Pieter de Beer

Designation Sasolburg Operations (SO) Senior Manager GLUC, Utilities

Signature 

Date 19/09/08 Place Sasolburg

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Date Received				
Decision Taken	Authorised		Not authorised (provide reason)	
Reference Number				