



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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NEAS Reference: DEA/EIA/0001508/2012

DEA Reference: 14/12/16/3/3/3/63

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Ms Deidre Herbst
Eskom Holding SOC Limited
P.O. Box 1091
JOHANNESBURG
2000

Fax No: 086-660-6092
Tel No: 011-800-3501
E-Mail: HerbstDL@eskom.co.za

PER FACSIMILE / MAIL

Dear Ms Herbst

APPLICATION FOR INTEGRATED ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998: GN R. 543 AND NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 GOVERNMENT NOTICE 921: CONTINUOUS DISPOSAL OF ASH AT THE EXISTING ASH DISPOSAL FACILITIES AT KENDAL POWER STATION, MPUMALANGA PROVINCE

With reference to the above application, please be advised that the Department has decided to grant authorisation. The environmental authorisation (EA) and reasons for the decision are attached herewith.

In terms of regulation 10(2) of the Environmental Impact Assessment Regulations, 2010 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 12 (twelve) days of the date of the EA, of the Department's decision in respect of your application as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 7 of the Regulations, which prescribes the appeal procedure to be followed. This procedure is summarised in the attached document. Kindly include a copy of this document with the letter of notification to interested and affected parties.

Should the applicant or any other party wish to appeal any aspect of the decision a notice of intention to appeal must be lodged by all prospective appellants with the Minister, within 20 days of the date of the EA, by means of one of the following methods:

By post: Private Bag X447,
Pretoria, 0001; or

Mr

By hand: Environment House
473 Steve Biko,
Arcadia,
Pretoria, 0083

If the applicant wishes to lodge an appeal, it must also serve a copy of the notice of intention to appeal on all registered interested and affected parties as well as a notice indicating where, and for what period, the appeal submission will be available for inspection, should you intend to submit an appeal.

Appeals must be submitted in writing to:

Mr Z Hassam Director: Appeals and Legal Review, of this Department at the above mentioned addresses or fax number. Mr Hassam can also be contacted at:

Tel: (012) 399 9356

Email: AppealsDirectorate@environment.gov.za

The authorised activities shall not commence within twenty (20) days of the date of signature of the authorisation. Further, please note that in terms of section 43(7) of the National Environmental Management Act, 1998, an appeal under section 43 of that Act will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

Yours faithfully


Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Date: 28/7/2015

CC:	Ms S Douglas	Zitholele Consulting sharonm@zitholele.co.za	Tel: 011-207-2073	Fax: 086-676-9950
	Mrs P Fenyane	Emalahleni Local Municipality	Tel: 013-690-6318	Fax: 086-585-9665

APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF THE NEMA EIA REGULATIONS, 2010 (THE REGULATIONS) AS PER GN R. 543 OF 2010 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF AN ENVIRONMENTAL AUTHORISATION (EA)

APPLICANT	INTERESTED AND AFFECTED PARTIES (IAPs)
1. Receive EA from the relevant Competent Authority (the Department of Environmental Affairs [DEA]).	1. Receive EA from Applicant/Consultant.
2. Within 12 days of date of the EA notify all IAPs of the EA and draw their attention to their right to appeal against the EA in terms of Chapter 7 of the Regulations.	2. N/A.
3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA with the Minister of Environmental Affairs (the Minister).	3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA. with the Minister of Environmental Affairs (the Minister).
4. After having submitted your notice of intention to appeal to the Minister, provide each registered IAP with a copy of the notice of intention to appeal within 10 days of lodging the notice.	4. After having submitted your notice of intention to appeal to the Minister, provide the applicant with a copy of the notice of intention to appeal within 10 days of lodging the notice.
5. The Applicant must also serve on each IAP: a notice indicating where and for what period the appeal submission will be available for inspection.	5. Appellant must also serve on the Applicant within 10 days of lodging the notice, a notice indicating where and for what period the appeal submission will be available for inspection by the applicant.
6. The appeal must be submitted in writing to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.	6. The appeal must be submitted to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.
7. Any IAP who received a notice of intention to appeal may submit a responding statement to that appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.	7. An Applicant who received notice of intention to may submit a responding statement to the appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.

NOTES:

1. An appeal must be:-

- a) submitted in writing;
- b) accompanied by:
 - a statement setting out the grounds of appeal;
 - supporting documentation which is referred to in the appeal; and
 - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62.



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Integrated Environmental Authorisation Issued in terms of

**The National Environmental Management Act, 1998 and the Environmental Impact
Assessment Regulations 2010**

And

**The National Environmental Management: Waste Act, 2008 and Government Notice 921
of 2013**

Continuous disposal of ash at the existing ash disposal facilities at Kendal Power Station
Mpumalanga Province

Nkangala District Municipality

<i>Authorisation register number:</i>	<i>14/12/16/3/3/3/63</i>
<i>Last amended:</i>	<i>First Issue</i>
<i>Holder of integrated authorisation:</i>	<i>Eskom Holding SOC Limited</i>
<i>Location of activities:</i>	<i>MPUMALANGA PROVINCE: On portions 5, 17 and 36 of the Farm Leeuwfontein 219IR; portions 21, 24, 25, 27, 38, 39,43 and 44 of the Farm Schoongezicht 218IR; portion 79 of the Farm Heuvelfontein 79IR, within eMalahleni Local Municipality</i>

This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

1. DECISIONS

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this integrated environmental authorisation ("the environmental authorisation") that the applicant should be authorised to undertake the NEMA EIA and NEMWA listed activities specified below.

Details regarding the basis on which the Department reached this decision are set out in Annexure "I" to this environmental authorisation.

2. NEMA EIA AND NEMWA ACTIVITIES AUTHORISED

By virtue of the powers conferred on it by NEMA, the NEMA EIA Regulations, 2010, NEMWA and Government Notice 921 of November 2013 the Department hereby authorises –

ESKOM HOLDING SOC LIMITED

with the following contact details –

Ms Deidre Herbst

Eskom Holding SOC Limited

P.O. Box 1091

Johannesburg

2000

Fax No: 086-660-6092

Tel No: 011-800-3501

E-Mail: HerbstDL@eskom.co.za

to undertake the following activities (hereafter referred to as "the activities"):

Listed activities	Activity/Project description
<u>GN R. 544 Item 11:</u> The construction of: (ii) channels; (iv) dams; (xi) infrastructure or structures covering 50 square metres or more where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.	The construction of the stream diversion channel will require work / activities to be undertaken within the stream. The works proposed for the farm dam will take place in-stream and therefore also within a watercourse. The PCD may extend over an area greater than 50 square meters may be located within 32 meters from a watercourse.
<u>GN R. 544 Item 18:</u> The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock or more than 5 cubic metres from a watercourse	The nature of the construction activities required for the stream diversion and lowering the dam wall will inherently entail excavations within, and the removal / moving soil from the stream. The volume of soil that will be removed by the excavations may exceed 5 cubic metres.
<u>GN R. 544 Item 22:</u> The construction of a road, outside urban areas; (ii) where no reserve exists where the road is wider than 8 metres	A road linking the N12 to the R545 will be constructed. The width of the proposed road will exceed 8 metres. No reserve for the proposed road exists.
<u>GN R. 545 Item 5:</u> The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent and which is not identified in Notice No. 544 of 2010 or included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No.59 of 2008) in which case that Act will apply.	The proposed PCDs are classified as dams which poses a safety risk. The applicable provisions included Government Notice 704 promulgated in terms of the National Water Act, 1998 (Act No. 36 of 1998) must therefore also been adhered to. Furthermore the proposed PCDs also triggers Water Uses defined in Section 21 of the National Water Act, 1998 (Act No. 36 of 1998).
<u>GN R. 545 Item 6:</u> The construction of facilities or infrastructure for the bulk transportation of dangerous goods – (iii) in solid form, outside an industrial complex, using	The dry ash generated by the combustion of coal in the electricity generation process will be disposed of at the extended Ash Disposal Facility.

Listed activities	Activity/Project description
<i>funiculars or conveyors with a throughput capacity of more than 50 tons day.</i>	
<u>GN R. 545 Item 15:</u> <i>Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use, where the total area to be transformed is 20 hectares or more</i>	The proposed PCDs, ADF and Clean Water Dams will cover an area exceeding 20 hectares.
<u>GN R. 921 Category B Item 7</u> <i>The disposal of any quantity of hazardous waste to land.</i>	The dry ash generated by the combustion of coal in the electricity generation process will be disposed of at the Continuous Ash Disposal Facility. Owing to the nature and composition of the ash that is generated by the combustion of coal, it is considered to be hazardous waste.
<u>GN R. 921 Category B Item 10</u> <i>The construction of a facility for a waste management activity listed in Category B of this Schedule (not in isolation to associated waste management activity).</i>	The existing ADF will be expanded to into the north westerly direction. The expansion of the dry ash dump is required to provide sufficient capacity for the remaining life of the KPS.

as described in the Environmental Impact Assessment Report (EIR) dated September 2014 at:

Description	Coordinates		Size of Facility	Quantity / Capacity	Classification
	SOUTH	EAST			
Dam1	26° 5'02.9"S	28°55'42.4"E	2.9 Ha	120 MI	DIRTY
Dam2	26° 5'10.1"S	28°55'42.3"E	5.93 Ha	257 MI	CLEAN
Dam3	26° 6'55.3"S	28°56'57.1"E	3.35 Ha	76 MI	CLEAN
Dam4	26° 5'44.9"S	28°57'14.5"E	1.58 Ha	36 MI	CLEAN
Dam5	26° 5'30.3"S	28°56'54.4"E	0.5 Ha	89 ML	DIRTY
E-Dump	26° 5'12.82"S	28°57'33.02"E	2.8 Ha	190 ML (ash)	DIRTY
Continuous ADF	26° 5'44.03"S	28°56'17.45"E	583 Ha	98000 ML (ash)	DIRTY
CSY Attenuation Dam	26° 6' 10.52" S	28° 58' 37.34" E	0.3 Ha	10 MI (water)	DIRTY
Stream Diversion (start)	26° 5' 36.2" S	28° 57' 11.9" E	10 m wide, 2 m deep, 3.24 km long	Flow rate before: 100 m³/s	CLEAN
Stream Diversion (end)	26° 4' 56.9" S	28° 55' 44.9" E		Flow rate after: 100 m³/s	

for the construction of ash disposal facility and its associated infrastructure on portions 5, 17 and 36 of the Farm Leeuwfontein 219IR; portions 21, 24, 25, 27, 38, 39,43 and 44 of the Farm Schoongezicht 218IR; portion 79 of the Farm Heuvelfontein 79IR within eMalahleni Local Municipality in the Mpumalanga Province, hereafter referred to as "the property".

The project will include the following components:

- Continuation of the existing ADF in a north westerly direction;
- Increase the storage capacity of the existing Emergency-Dump;
- Construction of Pollution Control Dams, Clean Water Dams and Storm Water Management infrastructure.
- Diversion of a natural stream to accommodate the Continuous ADF footprint.
- Remedial works to an existing in-stream farm dam within Eskom's property boundary, to address the mixing of flow from the final voids of the adjacent mining operations. The dam does not form part of Eskom's Water Management System.

3. SCOPE OF AUTHORISATION

- 3.1 Authorisation is granted for the expansion of ash disposal facility at Kendal Coal Power station within site co-ordinates as indicated above.
- 3.2 Authorisation of the activities is subject to the conditions contained in this authorisation, which form part of the environmental authorisation and are binding on the holder of the environmental authorisation.
- 3.3 The Department shall by written notice to the holder of an environmental authorisation suspend with immediate effect an environmental authorisation if suspension of the authorisation is necessary to prevent harm or further harm to the environment.
- 3.4 The activities must commence within a period of five (5) years from the date of issue. If commencement of the activity does not occur within that period, the environmental authorisation lapses and a new application for an environmental authorisation must be made for the activities to be undertaken. Commencement with one activity listed in terms of this authorisation constitutes commencement of all authorised activities.
- 3.5 The holder of the environmental authorisation shall be responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.

- 3.6 Any changes to, or deviations from, the project description set out in this authorisation must follow the amendment processes as prescribed in Chapter 4 (Parts 1-3) of the NEMA EIA Regulations, 2010 and be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.

4. NOTIFICATION OF AUTHORISATION AND RIGHT TO APPEAL

- 4.1 The holder of the authorisation must notify every registered interested and affected party, in writing and within 12 (twelve) calendar days of the date of this environmental authorisation, of the decision to authorise the activity.
- 4.2 The notification referred to must –
- 4.2.1 specify the date on which the authorisation was issued;
 - 4.2.2 inform the interested and affected party of the appeal procedure provided for in Chapter 7 of the Environmental Impact Assessment (EIA) Regulations, 2010;
 - 4.2.3 advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 4.2.4 give the reasons for the decision.
- 4.3 The holder of the authorisation must publish a notice –
- 4.3.1 informing interested and affected parties of the decision;
 - 4.3.2 informing interested and affected parties where the decision can be accessed; and
 - 4.3.3 drawing the attention of interested and affected parties to the fact that an appeal may be lodged against this decision in the newspaper(s) contemplated and used in terms of regulation 54(2)(c) and (d) and which newspaper was used for the placing of advertisements as part of the public participation process.
- 4.4 The holder of the environmental authorisation must, in writing, within 12 days of the date of the decision on the application–
- (a) notify all registered interested and affected parties of–
 - (i) the outcome of the application; and
 - (ii) the reasons for the decision;
 - (b) draw the attention of all registered interested and affected parties to the fact that an appeal may be lodged against the decision in terms of Chapter 7 of the NEMA EIA Regulations, 2010 if such appeal is available in the circumstances of the decision;

- (c) draw the attention of all interested and affected parties to the manner in which they can access the decision; and
- (d) publish a notice–
 - (i) informing interested and affected parties of the decision;
 - (ii) informing interested and affected parties where the decision can be accessed; and
 - (iii) drawing the attention of interested and affected parties to the fact that an appeal may be lodged against the decision in terms of Chapter 7 of the NEMA EIA Regulations, 2010, if such appeal is available under the circumstances of the decision; in the newspapers contemplated in regulation 54(2)(c) and (d) of the NEMA EIA Regulations, 2010 and which newspaper was used for the placing of advertisements as part of the public participation process.

5. MANAGEMENT OF THE ACTIVITY

- 5.1. The Environmental Management Programme (EMPr) submitted as part of the Application for EA is hereby approved. This EMPr must be implemented and adhered to.
- 5.2. Should there be changes in the operation and management of the authorised activities; the EMPr must be amended to accommodate those changes and be submitted to this Department for written approval before implementation incorporated as part of the EMPr. Once approved, the EMPr must be implemented and adhered to.
- 5.3. The approved EMPr and operational EMPr for the disposal facility must be implemented and strictly enforced during all phases of the project. It shall be seen as a dynamic document and shall be included in all contract documentation for all phases of the development.
- 5.4. Changes to the EMPr and the operational EMPr for the disposal facility which are environmentally defensible, shall be submitted to this Department for acceptance before such changes could be effected.
- 5.5. The Department reserves the right to request amendments to the EMPr and the operational EMPr for the disposal facility should any impacts that were not anticipated or covered in the EIR be discovered.
- 5.6. The provisions of the approved EMPr and the operational EMPr for the disposal facility including the mitigation measures identified in the EIR and specialist' studies shall be an extension of the conditions of this EA and therefore noncompliance with them would constitute non-compliance with the EA.
- 5.7. The effluent management system must be managed and operated:

- 5.7.1. In accordance with an Environmental Management System (EMS), that inter alia identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the holder of the environmental authorisation as a result of complaints;
- 5.7.2. By sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.
- 5.8. The holder of authorisation must maintain and ensure continued functioning of a Monitoring Committee for the normal operative lifetime of the site operational process and for a period of at least two years after the closure of the site, or at such longer period as may be determined by the Director.
- 5.9. The Monitoring Committee must formulate terms of reference and code of conduct, according to the Minimum Requirements, Second Edition 1998 by Department of Water Affairs and Forestry.
- 5.10. The Monitoring Committee must be comprised of relevant interested and affected parties.
- 5.11. The Monitoring Committee must meet at least twice a year and not later than 30 days after the external audit report specified in Condition 17.4.2 has been submitted according to Condition 17.4.2. (d).
- 5.12. The holder of authorisation must keep minutes of all the meetings of the Monitoring Committee and distribute these minutes to all members of the Monitoring Committee within 14 days after the meeting.

6. ENVIRONMENTAL CONTROL OFFICER (ECO)

- 6.1 The holder of this authorisation must appoint an independent Environmental Control Officer (ECO) with experience or expertise in the field for the construction phase of the development. The ECO will have the responsibility to ensure that the conditions referred to in this authorisation are implemented and to ensure compliance with the provisions of the EMPr.
- 6.2 The ECO must be appointed before commencement of any authorised activity.
- 6.3 Once appointed, the name and contact details of the ECO must be submitted to the Director: Compliance Monitoring of the Department.
- 6.4 The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.
 - 6.4.1 The ECO must:
 - 6.4.2 Keep record of all activities on site, problems identified, transgressions noted and a schedule of tasks undertaken by the ECO.

- 6.4.3 Keep and maintain a detailed incident (including spillage of bitumen, fuels, chemicals, or any other material) and complaint register on site indicating how these issues were addressed, what rehabilitation measures were taken and what preventative measures were implemented to avoid re-occurrence of incidents/complaints.
- 6.4.4 Keep and maintain a daily site diary.
- 6.4.5 Keep copies of all reports submitted to the Department.
- 6.4.6 Keep and maintain a schedule of current site activities including the monitoring of such activities.
- 6.4.7 Obtain and keep record of all documentation, permits, licences and authorisations such as waste disposal certificates, hazardous waste landfill site licences etc. required by this facility.
- 6.4.8 Compile a monthly monitoring report.

7. WASTE MANAGEMENT CONTROL OFFICER (WMCO)

- 7.1 The applicant must designate a Waste Management Control Officer (WMCO) in writing, who will monitor and ensure compliance and correct implementation of all conditions and provisions as stipulated in the environmental authorisation and approved EMPr related to the ash disposal facility.
- 7.2 The WMCO must report any non-compliance with any environmental authorisation conditions or requirements or provisions of NEMWA to the Department through the means reasonably available.
- 7.3 The duties and responsibility of the WMCO should not be seen as exempting the holder of the environmental authorisation from the legal obligations in terms of the NEMWA.

8. RECORDING AND REPORTING TO THE DEPARTMENT

- 8.1 The holder of this authorisation must keep all records relating to monitoring and auditing on site and make it available for inspection to any relevant and competent authority in respect of this development.
- 8.2 All records and/or reports required or resulting from activities relating to this environmental authorisation must:
 - 8.2.1 be legible;
 - 8.2.2 be submitted as required and must form part of the external audit report;

- 8.2.3 if amended, the record and/or report must be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable; and
- 8.2.4 be retained in accordance with documented procedures which are approved by the Department.
- 8.3 All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this authorisation, must be submitted to the Director: Compliance Monitoring at the Department.
- 8.4 Records demonstrating compliance with conditions of this EA must be maintained for five years.
- 8.5 The holder of the environmental authorisation must keep records and update all the information referred to in Annexure II and submit this information to the Department on an annual basis.

9. ENVIRONMENTAL AUDIT REPORT FOR CONSTRUCTION

- 9.1 The holder of the authorisation must submit an environmental audit report to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and within 30 days of completion of rehabilitation activities.
- 9.2 The environmental audit report must:
 - 9.2.1 Be compiled by an independent environmental auditor;
 - 9.2.2 Indicate the date of the audit, the name of the auditor and the outcome of the audit;
 - 9.2.3 Evaluate compliance with the requirements of the approved EMPr and this environmental authorisation;
 - 9.2.4 Include measures to be implemented to attend to any non-compliances or degradation noted;
 - 9.2.5 Include copies of any approvals granted by other authorities relevant to the development for the reporting period;
 - 9.2.6 Highlight any outstanding environmental issues that must be addressed, along with recommendations for ensuring these issues are appropriately addressed;
 - 9.2.7 Include a copy of this authorisation and the approved EMPr;
 - 9.2.8 Include all documentation such as waste disposal certificates, hazardous waste landfill site licences etc. pertaining to this authorisation; and
 - 9.2.9 Include evidence of adherence to the conditions of this authorisation and the EMPr where relevant such as training records and attendance records.

10. COMMENCEMENT OF ACTIVITIES

MS

- 10.1 The authorised activity shall not commence within twenty (20) days of the date of signature of the authorisation.
- 10.2 An appeal under section 43 of the National Environmental Management Act (NEMA), Act 107 of 1998 (as amended), suspend an environmental authorisation or exemption, or any provisions or conditions attached thereto.
- 10.3 Should you be notified by the Minister of a suspension of the authorisation pending appeal procedures, you may not commence with the activity until such time that the Minister allows you to commence with such an activity in writing.
- 10.4 The holder of this authorisation must obtain a Water Use Licence from the Department of Water Affairs (DWA) prior to the commencement of the project should the holder impact on any wetland or water resource. A copy of the license must be submitted to the Chief *Director: Integrated Environmental Authorisations* at the Department.
- 10.5 The holder of this authorisation must obtain Atmospheric Emission Licence from relevant authority prior to commencement of the project should the project trigger listed activities in terms of the National Environmental Management: Air Quality Act 39 of 2004. The copy of the licence obtained must be included in the first audit submitted to the Department.

11. NOTIFICATION TO AUTHORITIES

- 11.1 Fourteen (14) days written notice must be given to the Department that the activity will commence. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence. This notification period may coincide with the Notice of Intent to Appeal period, within which construction may not commence.
- 11.2 After construction of the site or further development within the site, the EA holder shall notify the Responsible Authority thereof and the person referred to in condition 2.5 shall submit a certificate or alternatively a letter to the Responsible Authority that the construction of the site or further development within the site, as proposed by the EA holder and approved by the Responsible Authority is in accordance with recognised civil engineering practice and the requirements in this EA before disposal may commence on the site. If the Responsible Authority is satisfied with the construction of the site or any further development within the site and has given written permission, the EA holder may use the site or any further development within the site for the disposal of waste.

12. OPERATION OF THE ACTIVITY

- 12.1 Fourteen (14) days written notice must be given to the Department that the activity operational phase will commence.
- 12.2 The holder of this authorisation must compile an operational EMPr for the operational phase of the activity or alternatively, if the holder has an existing operational environmental management system, it must be amended to include the operation of the authorised activity.

13. SITE CLOSURE AND DECOMMISSIONING

- 13.1 Should the activity ever cease or become redundant, the applicant shall undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.

14. LEASING AND ALIENATION OF THE SITE

- 14.1 Should the holder of the environmental authorisation want to alienate or lease the site, he/she shall notify the Department in writing of such an intention at least 120 days prior to the said transaction. Should the approval be granted, the subsequent holder of the environmental authorisation shall remain liable to compliance with all licence conditions.

15. TRANSFER OF ENVIRONMENTAL AUTHORISATION

- 15.1 Should the holder of the environmental authorisation transfer holdership of this environmental authorisation due to a change of ownership [as provided for in terms of S24E(c) of NEMA], he/she must apply in terms of Section 52 of NEMWA.
- 15.2 Should the transfer of holder ship of this environmental authorisation mentioned above be for any reason other than the change of ownership in the property, the holder of this environmental authorisation must inform the Department of any change in ownership in the property and must request an amendment to this environmental authorisation to reflect such change in ownership.
- 15.3 Any subsequent holder of an environmental authorisation shall be bound by conditions of this environmental authorisation.

16. INVESTIGATIONS

16.1 If, in the opinion of the Department, pollution, nuisance on the site, the holder of the environmental authorisation cause of the problem or suspected problem, including Department related to the risks posed. Such investigation quality variables at those monitoring points and at the Director: Department of Water and Sanitation.

16.2 Should the investigation carried out as per condition levels of pollution, the holder of the environmental measures to the satisfaction of the relevant Department

17. SPECIFIC CONDITIONS RELATED TO THE DISPOSAL

17.1 Site Security and Access Control

17.1.1 The holder of the environmental authorisation must effluent management system to prevent unauthorised legible signs in at least three official languages at each entrance to the site. The signs must indicate the as the person responsible for the operation of the site

17.2 Permissible waste

17.2.1 Any portion of the site which has been constructed containment barrier design in terms of Regulation Disposal of Waste to Landfill, dated 23 August 2013 authority may be used for the disposal of waste c Regulation 634, Waste Classification and Management

17.2.2 Any portion of the site which has been constructed may be used for the disposal of ash waste.

17.3 Construction and commissioning of activities

17.3.1 Construction and further development within the project out under the supervision of a Registered Professional must adhere to a Class C containment barrier design Norms and Standards for Disposal of Waste to Landfill

as

access

Class C

drawings must be approved in writing by the competent authority before construction may commence.

- 17.3.2 The holder of the authorisation must ensure that Construction Quality Assurance (CQA) takes place during construction and geosynthetic material must comply with relevant South African National specifications, or any prescribed management practice or standards which ensure relevant performance. Details of quality assurance during construction must be provided; this must also include conformation that construction will be supervised by a registered professional engineer.
- 17.3.3 After construction of the Site or further development within the Site, the holder of environmental authorisation must notify the competent authority thereof and the Registered Professional Engineer must submit a certificate or alternatively a letter to the competent authority that the construction of the Site or further development within the Site, as proposed by the holder of the authorisation and approved by the competent authority, is in accordance with recognised civil engineering practice and the requirements in this Licence, before disposal may commence on the Site. If the competent authority is satisfied with the construction of the Site or any further development within the Site and has given written permission, the holder of authorisation may use the Site or any further development within the Site for the disposal of waste.
- 17.3.4 Works must be constructed and maintained on a continuous basis by the holder of environmental authorisation to divert and drain from the Site in a legal manner, all runoff water arising on land adjacent to the Site, which could be expected as a result of the estimated maximum precipitation during a period of 24 hours with an average frequency of once in fifty (50) years (hereinafter referred to as the "estimated maximum precipitation"). Such works must, under the said rainfall event, maintain a freeboard of 800mm.
- 17.3.5 Works must be constructed and maintained on a continuous basis by the holder of authorisation to divert and drain from the working face of the Site, all runoff water arising on the Site, which could be expected as a result of the estimated maximum precipitation and to prevent such runoff water from coming into contact with leachate from the Site. Such works must, under the said rainfall event, maintain a freeboard of 800mm and be lined to the satisfaction of the competent authority, to prevent pollution to groundwater.
- 17.3.6 Runoff water referred to in Condition 17.3.5 must comply with the quality requirements of the General and Special Standard, prescribed in terms of section 21(1)(a) of the Water Act, 1956 (Act 54 of 1956) as published in Government Notice 991 of 18 May 1984, or with such quality requirements as may from time to time be determined by the competent authority and must be drained from the Site in a legal manner.

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17.3.7 Runoff water referred to in Condition 17.3.6 which does not comply with the quality requirements applicable in terms of Condition 17.3.6 and all sporadic leachate from the Site must, by means of works which must be constructed and maintained on a continuous basis by the holder of authorisation and be lined as approved by the competent authority, to prevent pollution to groundwater –

- (i) be treated to comply with the aforementioned standard and discharged in a legal manner; and/or
- (ii) be evaporated in lined dams as approved by the competent authority; and/or
- (iii) be discharged into any convenient sewer if accepted by the authority in control of that sewer.

17.3.8 The site must be constructed in accordance with recognised civil engineering practice to ensure that it remains stable.

17.3.9 The slope of the sides of the Site must be constructed in such a manner that little or no erosion occurs.

17.3.10 The EA holder must ensure that the storage areas have firm, waterproof base and drainage system. It must be designed and managed that there is no escape of contaminants in the environment. All runoff must be prevented from entering local watercourses including wetlands.

17.3.11 The EA holder must ensure that the integrity of the waterproof base and walls are routinely monitored and corrective action taken before containment integrity is breached.

17.3.12 Any development which occurs within 1:100 year flood line and/or within 500m from the boundary of wetlands would require a water use licence in terms of section 40 of the National Water Act, 1998.

17.4 Environmental auditing and reporting

17.4.1 Internal Audits

- (a) Internal audits must be conducted quarterly by the holder of the environmental authorisation in order to audit compliance with conditions related to this environmental authorisation and the approved EMPr, and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified in condition below.

17.4.2 External Audits

- (a) The holder of the environmental authorisation and approved EMPr must appoint an independent external auditor to audit the power plant bi-annually subject to the

environmental authorisation and this auditor must compile an audit report documenting the findings of the audit, which must be submitted by the holder of the environmental authorisation.

(b) The audit report must-

- (i) Specifically state whether conditions and requirements related to this environmental authorisation are adhered to;
- (ii) Include an interpretation of all available data and test results regarding the operation of the site and all its impacts on the environment;
- (iii) Specify target dates for the implementation of the recommendations by the holder of the environmental authorisation to achieve compliance;
- (iv) Contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the holder of the environmental authorisation and whether corrective action taken for the previous audit non conformities was adequate;
- (v) Show results graphically and conduct trend analysis; and
- (vi) Include the information required in Annexure II.

(c) Each external audit report referred to in condition 17.4.2 must be submitted to the Department within 30 days from the date on which the external auditor finalised the audit.

17.4.3 Reporting

- (a) The holder of the environmental authorisation must, within 24 hours, notify the Director of the occurrence or detection of any incident on the site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.
- (b) The holder of the environmental authorisation must, within 14 days inform the Department from the occurrence or detection of any incident referred to in condition 16.1, must within 14 days period of time specified by the Department submit an action plan, which must –
 - (i) Correct the impact resulting from the incident;
 - (ii) Prevent the incident from causing any further impact; and
 - (iii) Prevent a recurrence of a similar incident to the satisfaction of the Department.
- (c) In the event that measures have not been implemented within 21 days of the incident, or within the time period identified by the Department, or the measures which have been implemented are inadequate, the Department may implement the necessary measures at the cost and risk of the holder of the environmental authorisation.

- (d) The holder of the environmental authorisation must keep an incident report and complaints register, which must be made available to the external auditor, representatives of this Department and Department of Water and Sanitation for the purpose of audit.
- (e) The Department must be notified as soon as the holder of this environmental authorisation becomes aware of the following incidents:
 - (i) Any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;
 - (ii) The breach of this environmental authorisation; and
 - (iii) Any significant adverse environmental and health effects.



17.5 General operation and impact management of waste management activities

- 17.5.1 Waste, which is not sewage from the authorised development, must be dealt with according to relevant legislation or the Department's policies and practices.
- 17.5.2 The holder of environmental authorisation must prevent spillages. Where the spillages occur, the holder of authorisation must ensure the effective and safe cleaning of such spillages.
- 17.5.3 The holder of environmental authorisation must prevent the occurrence of nuisance conditions or health hazards.
- 17.5.4 The holder of environmental authorisation must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risks involved. Records of training and verification of competence must be kept by the Authorisation Holder.
- 17.5.5 No effluent must be discharged into any storm water drain or furrow, whether by commission or by omission.

17.6 Water quality monitoring

- 17.6.1 The holder of the environmental authorisation must carry out all tests required in terms of this environmental authorisation in accordance with published laboratory analysis methods or those prescribed by and obtainable from the South African Bureau of Standards (SABS), referred to in the Standards Act, 2008 (Act 08 of 2008).
- 17.6.2 Seven pairs of monitoring boreholes must be drilled around the proposed continuous ash disposal facility. The holder of authorisation must conduct monthly monitoring of groundwater levels, groundwater quality as indicated in condition 17.6.4 purged groundwater sampling and the analytical suite for groundwater samples including determinants as per existing Water Use Licence (Licence no: 04/B20E/BCEGI/1048).



17.6.3 Numerical groundwater modelling and geophysical studies should be carried out to map out the geological structures, and to assist with locating the proposed new monitoring boreholes. This information must be submitted to the competent authority within 6 months from the date of issue of this environmental authorisation.

17.6.4 Monitoring boreholes must be equipped with lockable caps. The competent authority reserves the right to take water samples at any time and to analyse these samples or have them analysed.

17.6.5 Detection Monitoring

17.6.5.1 Groundwater and surface water quality monitoring must be conducted –

(a) for variables listed in Annexure III – bi-annually

(b) for variables listed in Annexure III – annually

or such frequency as may be determined by the competent authority.

17.6.6 Liner Leak and Failure Detection Monitoring

17.6.6.1 The leachate detection system must be monitored on a daily basis for possible leakages. Should a leak or failure be suspected or detected during monitoring or at any time, it must be regarded as an incident according to condition 17.4.3 below and be addressed to the satisfaction of the competent authority.

17.6.6.2 Inspections of liners, where liners are accessible must be performed monthly. Liners must be repaired or replaced when inspection tests show deterioration/leakage and these corrective actions shall be performed to the satisfaction of the competent authority.

17.6.7 Investigative Monitoring

17.6.7.1 If, in the opinion of the competent authority, a water quality variable listed under the detection monitoring programme, as referred to in condition 17.6.4 shows an increasing trend, the holder of authorisation shall initiate a monthly monitoring programme.

Date of environmental authorisation: 28/07/2015


Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Annexure I: Reasons for Decision

1. Key factors considered in making the decision

All In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The information contained in the EIR dated September 2014;
- b) The mitigation measures included in the EIR dated September 2014; and the EMPr;
- c) The comments received from the Directorate: Authorisations & Waste Disposal Management and comments from interested and affected parties as included in the EIR dated September 2014; and
- d) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998).

2. Conclusions

After consideration of the information and factors listed above the Department reached the following conclusions:

- a) The extension of the disposal facility will take place within the already existing ash disposal facility.
- b) The identification and assessment of impacts are detailed in the EIR dated September 2014; and sufficient assessment of the key identified issues and impacts have been completed.
- c) The procedure followed for impact assessment is adequate for the decision-making process.
- d) The proposed mitigation of impacts identified and **assessed** adequately curtails the identified impacts.
- e) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA regulations, 2010, for public involvement.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the activity can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.

ANNEXURE II

INFORMATION WHICH SHALL BE SUBMITTED ON AN ANNUAL BASIS CONDITION 8.5

* = Indicate with an X. Please print legibly.

NAME OF SITE: _____ DATE OF REPORT: _____ (y/m/d)

1. Registered owner(s) of property on which the disposal facility is situated:

Name	Telephone	
Postal Address	Fax	
	Postal Code	

2. Operator in control of the disposal facility:

Name	Telephone	
Identity number	Tel. After hours	
Educational Qualifications		
Other Relevant competencies:		

3. Indicate the type of waste and approximate quantities of ash treated during the year:

Type of waste (Specify)	Quantity (m ³ annum ⁻¹)
TOTAL	

4. Indicate the type of waste and approximate quantities of ash reused, recycled, or disposed of during the year:

Type of waste	Quantity (m ³ annum ⁻¹)	reused, treated or disposed
TOTAL		

I, the undersigned, declare that the information stated above is to my knowledge a true reflection of the status at the _____ effluent treatment facility.

Signature: _____

Name: _____

Capacity: _____

Place: _____

Date _____

ANNEXURE III

WATER QUALITY VARIABLES REQUIRED FOR DETECTION MONITORING

Monitor at bi-annually intervals for:

Alkalinity (P.Alk)
Ammonia (NH₃-N)
Calcium (Ca)
Chemical Oxygen Demand (COD)
Chloride (Cl)
Chromium (hexavalent) (Cr⁶⁺)
Chromium (Total) (Cr)
Electrical Conductivity (EC)
Fluoride (F)
Magnesium (Mg)
Nitrate (NO₃-N)
pH
Potassium (K)
Sodium (Na)
Sulphate (SO₄)
Total Dissolved Solids (TDS)

WATER QUALITY VARIABLES REQUIRED FOR DETECTION AND INVESTIGATIVE MONITORING

Monitor at annual intervals for:

Alkalinity (P.Alk)
Boron (B)
Cadmium (Cd)
Chemical Oxygen Demand (COD)
Biological Oxygen Demand (BOD)
Chloride (Cl)

Chromium (hexavalent) (Cr^{6+})

Chromium (Total) (Cr)

Cyanide (CN)

Electrical Conductivity (EC)

Fluoride (F)

Free and Saline ammonia as N ($\text{NH}_4\text{-N}$)

Lead (Pb)

Magnesium (Mg)

Mercury (Hg)

Nitrate ($\text{NO}_3\text{-N}$)

pH

Phenolic Compounds (Phen)

Potassium (K)

Sodium (Na)

Sulphate (SO_4)

Total Dissolved Solids (TDS)

Total Organic Carbon (TOC)

Total Organic Halogen (TOX)

Volatile Organic Compounds