

5.5 Fatal Flaws for the site:

Indicate which of the following apply to the facility for a waste management activity:

Within a 3000m radius of the end of an airport landing strip	NO
Within the 1 in 50 year flood line of any watercourse	YES
Within an unstable area(fault zone, seismic zone, dolomitic area, sinkholes)	NO
Within the drainage area or within 5 km of water source	YES
Within an area with shallow and/or visible water table	NO
Within an area adjacent to or above an aquifer	NO
Within an area with shallow bedrock and limited available cover material	NO
Within 100 m of the source of surface water	YES
Within 1km from the wetland	YES
Indicate the distance to the boundary of the nearest residential area	10.6 km (Thuthukani)
Indicate the distance to the boundary of the industrial area	4.7 km (Tutuka Power Station)

5.6 Wettest six months of the year

November- April	X
May -October	

5.7 For the wettest six month period indicated above, indicate the following for the preceding 30 years

Only rainfall data from January 1998 to December 2009 was available from Tutuka Power Station

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 st wettest year - 2006	837mm	-	-
For the 2 nd wettest year - 2009	776mm	-	-
For the 3 rd wettest year - 2004	728mm	-	-
For the 4 th wettest year - 2000	655mm	-	-
For the 5 th wettest year - 2002	591mm	-	-
For the 6 th wettest year - 2008	569mm	-	-
For the 7 th wettest year - 2003	524mm	-	-
For the 8 th wettest year - 1999	509mm	-	-
For the 9 th wettest year - 1998	503mm	-	-
For the 10 th wettest year - 2007	493mm	-	-

5.8 Location and depth of ground water monitoring boreholes:

Codes of boreholes	Borehole locality	Depth (m)	Latitude	Longitude
AMB01	Monitoring borehole south clean water dam.		-26.80890	29.41490
AMB02	Monitoring borehole upstream ashing area settling dam.		-26.78750	29.41190
PMB04	Monitoring borehole south-east of power station and Stein Muller Dam.		-26.78660	29.36390
PMB06	Monitoring borehole north of the power station and North Potable Dam.		-26.76840	29.34620
PMB07	Monitoring borehole north-east of the power station and Dirty Water Dam.		-26.76740	29.35930
PMB08	Monitoring borehole north of the rehabilitated old Domestic Waste Site.		-26.76000	29.37290
PMB09	Monitoring borehole next to the stream from dam below Sewage Plant.		-26.75940	29.35860
CMB10	Monitoring borehole south of coal stock yard.		-26.74640	29.35760
CMB12	Monitoring borehole below pollution control dam next to Uitkyk Spruit.		-26.73250	29.35310
CMB19	Monitoring borehole north of coal stock yard below dam CMD15		-26.73420	29.35880
AMB21	Production borehole south of ash stack next to the clean water dam		-26.79290	29.40850
AMB24D	Monitoring borehole in ash stack on standby		-26.77700	29.40730
AMB24S	Monitoring borehole in ash stack on standby		-26.77700	29.40730
AMB25D	Monitoring borehole in ash stack on south of the front stack. Deep.		-26.77580	29.39870
AMB25S	Monitoring borehole in ash stack on south of the front stack. Shallow		-26.77580	29.39870
AMB26D	Monitoring borehole in the ash stack rehabilitated area. Deep		-26.77170	29.39690
AMB26S	Monitoring borehole in ash stack on south of the front stack. Shallow		-26.77170	29.39690
AMB31	Production borehole at ashing office		-26.77180	29.38660
CMB32	Monitoring borehole north of coal stock yard.		-26.73570	29.35740
DMB33	North of the solid waste site.		-26.77058	29.32516
DMB34	North of the solid waste site.		-26.77054	29.32634

DMB35	South of the solid waste site and next to the entrance.	-26.77337	29.32485
AMB36	Monitoring borehole north of ash stack.	-26.76540	29.40300
AMB51	Monitoring borehole about 700 m south of ash stack west of blue pipeline.	-26.78357	29.38785
AMB52	Monitoring borehole about 1 km south of ash stack east of blue pipeline.	-26.78834	29.39233
AMB53	Monitoring borehole south of ash stack about 1 km east of AMB52.	-26.78630	29.39920
AMB54	Monitoring borehole south of hazardous disposal site.	-26.77500	29.39690
AMB55	Monitoring borehole east of remedial plant.	-26.77450	29.39170
AMB56A	Monitoring borehole between clean and dirty water dam.	-26.79540	29.41250
AMB56B	Monitoring borehole between clean and dirty water dam.	-26.79540	29.41250
PMB60	Monitoring borehole east of power station west of tar road.	-26.78260	29.36810
AMB61	Monitoring borehole west of ashing east of tar road.	-26.78110	29.37040
AMB62	Borehole at Clean water dam's outflow.	-26.80310	29.41130
AMB63	Monitoring borehole below settling water dam.	-26.79130	29.41660
AMB64	Monitoring borehole south of ashing area	-26.78570	29.41230
AMB65	Monitoring borehole south of ashing area.	-26.78230	29.41360
AMB67A	Monitoring borehole south of ashing area.	-26.78190	29.41010
AMB67B	Monitoring borehole south of ashing area.	-26.78190	29.41010
CMB69	Monitoring borehole south of coal stock yard.	-26.74620	29.36110
CMB70	Monitoring borehole south of coal stock yard next to Racesbult Spruit.	-26.74980	29.35550
CMB71	Monitoring borehole south of coal stock yard next to Racesbult Spruit.	-26.74900	29.35310
CMB72	Monitoring borehole north of coal stock yard next to Uitkyk Spruit.	-26.73150	29.35130
PMB75	Monitoring borehole south east of power station and south of conveyer.	-26.77810	29.36110
PMB76	Monitoring borehole east of power station and north-east of new coal stockpile.	-26.77420	29.36110
AMB77D	Monitoring borehole south of clean water dam AMD07.	-26.80357	29.41231

AMB77S	Monitoring borehole south of clean water dam AMD07.		-26.80357		29.41231
AMB78D	Monitoring borehole east of AMB77.		-26.80344		29.41352
AMB78S	Monitoring borehole east of AMB77.		-26.80344		29.41352
DMB86	Old borehole with piezometer north of the solid waste site.		-26.77076		29.32434
DMB87	North of new proposed extension.		-26.77023		29.32423
DMB88	North of new proposed extension.		-26.76941		29.32376
DMB89	West of proposed new extension and north of the borrow pit.		-26.77081		29.32241
AMB90A	Monitoring borehole south of ashing area east of stream - Deep.		-26.77931		29.40823
AMB90B	Monitoring borehole south of ashing area east of stream - Shallow.		-26.77931		29.40823
AMB91A	Monitoring borehole south of ashing area west of stream - Deep.		-26.77927		29.40765
AMB91B	Monitoring borehole south of ashing area west of stream - Shallow.		-26.77927		29.40765
AMB92A	Monitoring borehole on south-eastern corner of ash stack - Deep.		-26.78089		29.41401
AMB92B	Monitoring borehole on south-eastern corner of ash stack - Shallow.		-26.78089		29.41401
AMB93A	Monitoring borehole south of ashing area and AMB90 and east of stream - Deep.		-26.78285		29.40955
AMB93B	Monitoring borehole south of ashing area and AMB90 and east of stream - Shallow.		-26.78285		29.40955

5.9 Location and depth of landfill gas monitoring test pit:

Not Applicable – the Tutuka Power Station does not have gas monitoring boreholes - this application is for an ash dump facility.

Codes of boreholes	Borehole locality	Latitude			Longitude		
.....	○			○		
.....	○			○		

PART E: DECLARATION BY THE APPLICANT

1. The Applicant

I, Deidre Herbert, declare that I -

- am, or represent¹, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner²;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to –
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the applicant³/ Signature on behalf of the applicant:

Eskom Holdings SOC Limited

Name of company (if applicable):

15.08.2012
Date:

¹ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.
² If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.
³ If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.