



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENCE

	(For official use only)
File Reference Number:	
NEAS Reference Number:	
Date Received:	

Application for integrated environmental authorisation and waste management licence in terms of the-

- (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010; and
- (2) National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 718 of 2009.

PROJECT TITLE

Medupi Power Station Flue Gas Desulphurisation Environmental Impact Assessment for Waste Management Licensing and Environmental Authorisation.

PART A: INFORMATION AND APPLICATION PROCESS

1. DEFINITIONS

Definitions in this form are as per the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), the Environmental Impact Assessment ("EIA") Regulations, 2010, the National Environmental Management: Waste Act, 1998 (Act No. 59 of 2008) ("NEMWA") and the Schedule contained in Government Notice 718, published on 3 July 2009 in terms of section 19 of NEMWA.

2. APPLICABILITY OF INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS

The integrated environmental authorisation process will only apply in instances where the Minister is both the-

- (a) competent authority for the environmental authorisation applied for in terms of NEMA and the EIA Regulations, 2010; and
- (b) the licencing authority for the waste management licence in terms of NEMWA.

Kindly refer to paragraph 3.2 of this part of the application to determine in which instances the Minister would be the competent authority in terms of NEMA and the licencing authority in terms of NEMWA.

3. APPLICATION PROCESS EXPLAINED:

3.1 Integrated environmental authorisation process:

3.1.1 The environmental authorisation process prescribed for listed activities under Listing Notices 1, 2 and 3 published in *Government Gazette* Numbers R544, R545 and R546 respectively and the waste licensing process for listed activities contained in the Schedule in Government Notice 718, 2009 published in terms of section 19 of NEMWA are as defined in the Environmental Impact Assessment (EIA) Regulations made under section 24(5) of the National Environmental Management Act, 2008 (Act No. 107 of 1998) ("NEMA").

3.1.2 This integrated application form is the official form in terms of regulation 12(2)(a) of the EIA Regulations, 2010 and must accompany every integrated environmental authorization application pertaining to-

- listed activities in terms of NEMA; and
- waste activities in terms of NEMWA.

3.2 Competent Authority (Where to submit applications)

3.2.1 The Minister of Water and Environmental Affairs is the-competent authority in respect of the activities listed in Listing Notices 1, 2 and 3, published in *Government Gazette* numbers R544, R545, and R546 respectively, in terms of NEMA if the activity-

(a) has implications for international environmental commitments or relations;

(b) will take place within an area protected by means of an international environmental instrument, other than-

(i) any area falling within the sea-shore or within 150 meters seawards from the high-water mark, whichever is the greater;

(ii) a conservancy;

(iii) a protected natural environment;

(iv) a proclaimed private nature reserve; (v) a natural heritage site; and

(vi) the buffer zone or transitional area of a world heritage site;

(c) has a development footprint that falls within the boundaries of more than one province or traverses international boundaries;

(d) Is undertaken, or is to be undertaken by-

(i) A national department;

(ii) A provincial department responsible for environmental affairs or any other organ of state performing a regulatory function and reporting to the MEC; or

(iii) A statutory body, excluding any municipality, performing an exclusive competence of the national sphere of government; or

(e) Will take place within a national proclaimed protected area or other conservation area under control of a national authority.

3.2.2 The Minister of Water and Environmental Affairs is the licencing authority in respect of all activities listed in both Category A and Category B of the Schedule contained in Government Notice 718, 2009 published in terms of section 19 of NEMWA where –

- (a) Unless otherwise indicated by the Minister by notice in the *Gazette*, the waste management activity involves the establishment, operation, cessation or decommissioning of a facility at which hazardous waste has been or is to be stored, treated or disposed of;
- (b) The waste management activity involves obligations in terms of an international obligation, including the importation or exportation of hazardous waste;
- (c) The waste management activity is to be undertaken by-
 - (i) A national department;
 - (ii) A provincial department responsible for environmental affairs; or
 - (iii) A statutory body, excluding any municipality, performing an exclusive competence of the national sphere of government;
- (d) The waste management activity will affect more than one province or traverse international boundaries; or
- (e) Two or more waste management activities are to be undertaken at the same facility and the Minister is the licencing authority for any of those activities.

3.2.3 However, despite the above-mentioned legislative provisions, the Minister and an MEC may agree that an application for a waste management activity or an environmental authorisation in respect of the above-mentioned activities, where the Minister is the competent/licencing authority, may be dealt with by the relevant MEC within whose province the activity(ies) will take place. Similarly the Minister and the MEC may agree that an application for an environmental authorisation or a waste management activity where the MEC has been identified as the competent/licencing authority, may be dealt with by the Minister. [Section 24C(3) of NEMA and section 43(3) of NEMWA]

3.2.4 The integrated application for environmental authorisation must be addressed to
The Chief Directorate: Integrated Environmental Authorisations at:

Postal address:

Department of Environmental Affairs
Attention: Director: Integrated Environmental Authorisations
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Fedsure Forum Building (corner of Pretorius and Lillian Ngoyi Streets)
4th Floor South Tower
315 Pretorius Street
Pretoria
0002

Queries must be addressed to the contact below:

Tel: 012-395-1768
Fax: 012-320-7539
E-mail: EIAAdmin@environment.gov.za

Please note that this form must be copied to the relevant provincial environmental department/s.

View the Department's website at [http://www.environment.gov.za/](http://www.environment.gov.za) for the latest version of the documents.

3.3 Making an Application

- 3.3.1 This application form is current as of 1 April 2014. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority. It is the applicant's responsibility to download the current version of the application form from the website of the Department at <http://www.environment.gov.za>.
- 3.3.2 The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
- 3.3.3 The applicant must clearly mark confidential sections of the information submitted in the application form and supporting documents. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.
- 3.3.4 The applicant must fill in all relevant sections of this form. Incomplete applications will not be processed. The applicant will be notified of the missing information in the acknowledgement letter that will be sent within 14 days of receipt of the application.
- 3.3.5 Incomplete applications may be returned to the applicant for revision.
- 3.3.6 Sections in the form that do not apply to the applicant must be marked "not applicable". However, the use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
- 3.3.7 Where applicable **black out** the boxes that are not applicable in the form.
- 3.3.8 This application form, must be handed in at the offices of the relevant competent authority as determined by the relevant Acts and Regulations and as indicated in this application form. All application forms must be signed as stipulated in the form. Applications that are not signed or completed accordingly will not be considered.
- 3.3.9 No faxed or e-mailed applications will be accepted. An electronic copy of the signed application form must be submitted together with two hardcopies (one of which must contain the original signatures).
- 3.3.10 Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for the Fee Regulations (Fees for consideration and processing of applications for environmental authorisations and amendments thereto Government Notice No.141, published on 28 February 2014) is applicable AND such information in section 1 of this application form has been confirmed by this Department.

3.4 Appointment of an EAP

The applicant must appoint an EAP in terms of EIA Regulations, 2010;
The EAP must comply with general requirements as given in EIA regulations, 2010;
and
The EAP may be disqualified in terms of EIA Regulations, 2010.

3.5 Criteria for determining whether basic assessment or scoping is to be applied to applications

3.5.1 NEMA activities

- (a) Basic assessment must be applied to an application if the authorisation applied for is in respect of an activity listed in Listing Notices 1 and/or 3 published in *Government Gazette* Numbers R544 and R546, 2010 respectively and which must follow the process described in sections 21-25 of the EIA Regulations, 2010; and
- (b) Scoping and Environmental Impact Reporting Process (“S&EIR”) must be applied to an application if the authorisation applied for is in respect of an activity listed in Listing Notice 2 published in *Government Gazette* Number R545, 2010 and which must follow the process described in sections 26-35 of the EIA Regulations, 2010.

3.5.2 NEMWA activities

- (a) Basic assessment, in terms of sections 21-25 of the EIA Regulations, 2010, must be applied to an application if the authorisation applied for is in respect of an activity listed in Category A of the Schedule contained in Government Notice 718, published on 3 July 2009, in terms of section 19 of NEMWA; and
- (b) S&EIR, in terms of sections 26-35 of the EIA Regulations, 2010, must be applied to an application if the authorisation applied for is in respect of an activity Category B of the Schedule contained in Government Notice 718, published on 3 July 2009, in terms of section 19 of NEMWA.

3.5.3 Combination of NEMA and NEMWA activities

Should any of the NEMA or NEMWA activities applied for require the application of the S&EIR process, the S&EIR process will be applied to this application for integrated environmental authorisation.

PART B: PROOF OF PAYMENT

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof and a motivation for exclusions must be attached to this application form in **Appendix 1**.

Proof of payment attached as **Appendix 1**

Exclusion applies

An applicant is excluded from paying fees if:

The activity is a community based project funded by a government grant; or
The applicant is an organ of state.

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community based project funded by a government grant	
The applicant is an organ of state	X

FEE AMOUNT	Fee
Applications for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations	R2 000
Application for an environmental authorisation, for which S&EIR is required in terms of the Environmental Impact Assessment Regulations	R10 000

Department of Environmental Affairs' details for the payment of application fees:

<p>Payment Enquiries: Tel: 012 310 3798/ 012 310 3117 Email: eiafee@environment.gov.za</p> <p>Banking details: ABSA Bank Branch code: 632005 Account number: 1044 2400 72 Current account</p> <p>Reference number : Reference number to be provided in the specific format indicating centre point coordinates of site in decimal degrees to 5 or 6 decimal places: latitude/longitude eg. -33.918861/18.423300</p> <p>Proof of payment must accompany the application form: Indicate reference number below.</p> <p>Tax exemption status: Status: Tax exempted</p> <p>Reference number:N/A.....</p>
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PART C: GENERAL

1. DESCRIPTION OF PROJECT

The entire project will entail the following (full detail of the project can also be appended):

The Medupi Power Station is located west of Lephalale in the Limpopo Province of South Africa. The Power Station is the fourth dry-cooled, baseload station built in the last 20 years by South Africa's energy provider, Eskom. Medupi Power Station is the fourth largest coal plant in the southern hemisphere and will be the biggest dry-cooled power station on earth. The planned operational life of Medupi Power Station is 50 years. The Medupi Power Station has been authorized, is currently in the last phase of construction, and the first of the six units of the power plant is planned for first power by end of 2014.

The current project is for the retrofitting of Flue Gas Desulphurisation (FGD) technology to remove sulfur dioxide from the exhaust flue gases of the Medupi Power Station operations. Each of the six 800MW coal fired steam electric generating units will be retrofitted with FGD technology.

The FGD technology consists of wet limestone open spray tower FGD systems for each operating unit. Limestone will be sourced and stored on site for purposes of the FGD system. The FGD retrofit will require a mini-general overhaul (MGO) of the Power Station for installation.

Each FGD absorber will treat the flue gas from one boiler. The by-product of the FGD process is commercial-grade gypsum. A cluster of 3 FGD absorbers will be located at each of the two Power Station chimneys. Systems for make-up water, reagent preparation, gypsum, dewatering and storage, disposal and/or treatment of waste water will be introduced for the 6 FGD absorbers.

The FGD system retrofit will include additional dampers and ductwork to divert the flue gas to the FGD absorbers and then return it to the chimney. The chimney flues are lined with corrosion-resistant liners to handle saturated flue gas resulting from the FGD process.

The FGD will be a Zero Liquid Discharge (ZLD) system, with wastes for disposal being primarily gypsum, sludge and salts from the clarifier. Gypsum and sludge will be co-disposed of at the existing Ash Disposal Facility with the ash from the power station, if supported by the results of the waste classification study on all waste products.

Please see the process flow diagram attached under Section 2 of this application for basic information around the process and the inputs and outputs.

Purpose of application:

The current application aims at applying for Environmental Authorization for the FGD Process under the National Environmental Management Act (Act 107 of 1998), as well as for a Waste Management License under the National Environmental Management: Waste Act (Act 59 of 2008). Both the Waste Management License Process and the Environmental Authorisation will be applied for by means of a Full Environmental Impact Assessment (EIA) Process.

Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011?	YES	NO
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If YES, please indicate which SIPs are applicable in **Appendix 2**.

Please note that you may be requested to provide confirmation of SIP applications from the relevant sector representative.

Please indicate which sector the project falls under by crossing out the relevant block in the table below:

Table 1

Green economy + “Green” and energy-saving industries		Greenfield transformation to urban or industrial form (including mining)	
Infrastructure – electricity (generation, transmission & distribution)	X	Biodiversity or sensitive area related activities	
Oil and gas		Mining value chain	
Biofuels		Potential of metal fabrication capital & transport equipment – arising from large public investments	
Nuclear		Boat building	
Basic services (local government) – electricity and electrification		Manufacturing – automotive products and components, and medium and heavy commercial vehicles	
Basic services (local government) – area lighting		Manufacturing – plastics, pharmaceuticals and chemicals	
Infrastructure – transport (ports, rail and road)		Manufacturing – clothing textiles, footwear and leather	
Basic services (local government access roads)		Forestry, paper, pulp and furniture	
Basic services (local government) – public transport		Business process servicing	
Infrastructure – water (bulk and reticulation)		Advanced materials	
Basic services (local government) – sanitation		Aerospace	
Basic services (local government) – waste management		Basic services (local government) - education	
Basic services (local government) water		Basic services (local government) - health	
Agricultural value chain + agro-processing (linked to food security and food pricing imperatives)		Basic services (local government) - housing	
Infrastructure – information and communication technology		Basic services (local government) security of tenure	
Tourism + strengthening linkages between cultural industries and tourism		Other	
Basic services (local government) – public open spaces and recreational facilities			

2. FLOW CHART OF OPERATIONS

Please provide a brief description of the activities and operations at the site. Provide a flow chart of the operation showing all inputs and outputs of the process. Give particulars of the source, location, nature, composition and quantity of emission to the atmosphere, surface water, sewer, and ground-water including noise emissions. Solid waste must be in tons and specify units for liquids and gases.

Please find from attached

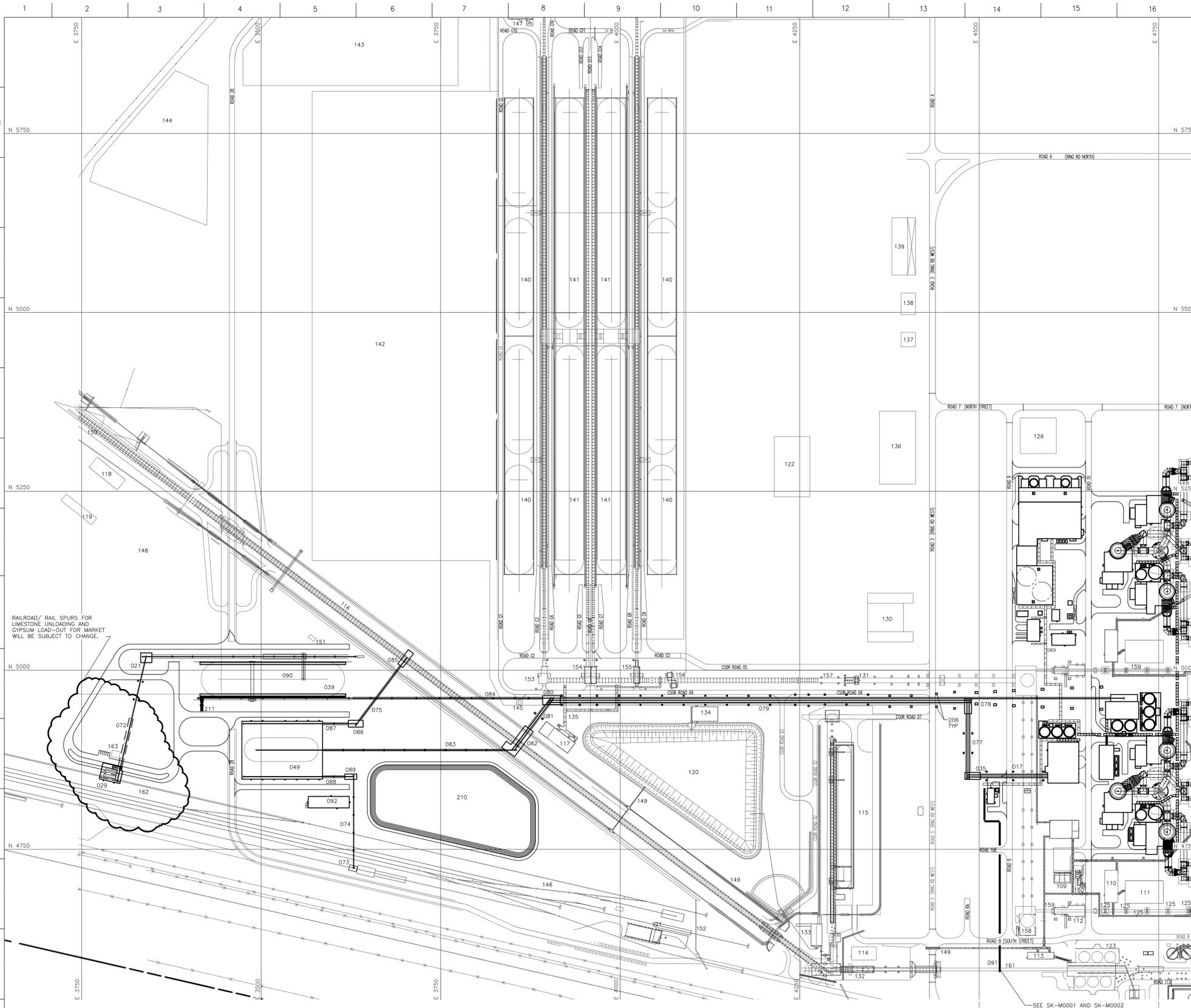
3. BACKGROUND INFORMATION

Applicant name:	Eskom Holdings SOC Limited		
Applicant ID number:	2002/015527/06		
Responsible position, e.g. Director, CEO, etc.:	David Tunnicliff		
Company Trading name (if any):	Eskom Holdings SOC Limited		
Company Registration no (if any):	2002/015527/06		
Contact person (if different to project applicant):	David Tunnicliff		
Physical address:	Eskom Megawatt Park, 1 Maxwell Drive Sunninghill, Johannesburg		
Postal address:	P.O.Box 1091 Sunninghill, Johannesburg		
Postal code:	2157	Cell:	N/A
Telephone:	0118005145	Fax:	0866029704
E-mail:	david.tunnicliff@eskom.co.za	BBBEE status	Level Three Contributor

Provincial Authority:	Limpopo Economic Development Environment & Tourism		
Contact person:	Tsakane Tshuketana		
Postal address:	Private Bag X 9484, POLOKWANE		
Postal code:	0700	Cell:	N/A
Telephone:	015 293 8300	Fax:	(015) 293 8317
E-mail:	TshuketanaTL@ledet.gov.za		

Local municipality	Lephalale Local Municipality		
Contact person:	AS Naidoo		
Postal address:	P.O.Box X136, Lephalale		
Postal code:	0555	Cell:	N/A
Telephone:	(014) 762 1409	Fax:	(014) 763 5662
E-mail:	Bob.naidoo@lephalale.gov.za		

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **Appendix 3**. If the applicant is not the owner or person in control of the land, proof of notice to the landowner or person in control of the land on which the activity is to be undertaken must be submitted in **Appendix 3**.



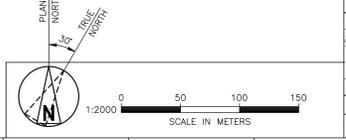
NEW FACILITIES LEGEND					
ID	FACILITY	FOUNDATION	TIEDOWN LOCATION		REMARKS
			NORTH	EAST	
017	GYPSUM COLLECTING CONVEYORS 1 AND 2				
021	LIMESTONE TRANSFER HOUSE LTH-1				
029	LIMESTONE UNLOADING FACILITY				
035	GYPSUM TRANSFER HOUSE GTH-1				
039	LIMESTONE STORAGE AREA				
049	GYPSUM STORAGE BUILDING				
072	LIMESTONE UNDERGROUND LINK CONVEYOR 1				
073	GYPSUM LOADOUT HOPPER				
074	SALEABLE GYPSUM CONVEYOR 13				
075	REJECT GYPSUM CONVEYOR 11				
076	RECLAIMER FEED CONVEYOR				
077	GYPSUM LINK CONVEYORS 3 AND 4				
078	GYPSUM TRANSFER HOUSE GTH-2				
079	GYPSUM CROSS CONVEYORS 5 AND 6				
080	GYPSUM TRANSFER HOUSE GTH-3				
081	GYPSUM LINK CONVEYORS 7 AND 8				
082	GYPSUM TRANSFER HOUSE GTH-4				
083	SALEABLE GYPSUM STACKING CONVEYOR 9				
084	LIMESTONE RECLAIM CONVEYOR 3				
085	GYPSUM TRANSFER HOUSE GTH-6				
086	GYPSUM TRANSFER HOUSE GTH-5				
087	REJECT GYPSUM RECLAIM CONVEYOR 10				
088	SALEABLE GYPSUM RECLAIM CONVEYOR 12				
089	GYPSUM TRANSFER HOUSE GTH-7				
090	LIMESTONE STACKING CONVEYOR 2				
092	LIMESTONE AND GYPSUM HANDLING SUBSTATION				
206	LIMESTONE/GYP COMBINED CONVEYOR FOUNDATION				
210	STORM WATER DIRTY DAM				
211	EMERGENCY LIMESTONE UNLOADING				

EXISTING FACILITIES LEGEND					
ID	FACILITY	FOUNDATION	TIEDOWN LOCATION		REMARKS
			NORTH	EAST	
109	EXISTING DIESEL GENERATION BUILDING				
110	EXISTING COMPRESSOR HOUSE SOUTH SUBSTATION				
111	EXISTING COMPRESSOR HOUSE SOUTH				
112	EXISTING INCLINED CONVEYOR DRIVE HOUSE				
113	EXISTING ASH CONDITIONING SUBSTATION				
114	EXISTING ASH CONVEYOR SUBSTATION				
115	EXISTING EMERGENCY ASH DUMP				
116	EXISTING OVERLAND ASH CONVEYORS				
117	EXISTING COAL STOCKYARD SUBSTATION SOUTH				
118	EXISTING ASH DUMP SUBSTATION				
119	EXISTING ASH DUMP WORKSHOP				
120	EXISTING COAL STOCKYARD POLLUTION CONTROL DAM				
121	EXISTING BULK FUEL OIL OFFLOADING				
122	EXISTING BOILER STRUCTURAL H.P. PIPEWORK FABRIC FILTER PLANT				
123	EXISTING FLY ASH CONDITIONING PLANT				
125	EXISTING INCLINED COAL CONVEYOR FOUNDATION				
126	EXISTING MAINTENANCE LAYDOWN AREA				
130	EXISTING MAIN OFFICE HPE				
131	EXISTING COAL CONVEYOR DRIVE HOUSE				
132	EXISTING ASH TRANSFER HOUSE #8				
133	EXISTING STOCKPILE TERRACE SUMP				
134	EXISTING SILT TRAP				
135	EXISTING ELECTRICAL TUNNEL				
136	EXISTING WAREHOUSE STORES				
137	EXISTING PLANT WASH BAY				
138	EXISTING PLANT WORKSHOP				
139	EXISTING FUEL OIL STATION				
140	EXISTING SEASONAL STOCKPILE				
141	EXISTING LIVE STOCKPILE				
142	EXISTING STRATEGIC STOCKPILE AREA				
143	EXISTING COAL CONTRACTORS YARD				
144	EXISTING WASTE STORAGE AREA				
145	EXISTING CSY TANKER FILLING				
146	EXISTING RAIL SPURS				
147	EXISTING CSY SUBSTATION NORTH				
148	EXISTING EARTH WORKS AND ROADS CONTRACTORS YD				
149	EXISTING ELECTRICAL TRENCH				
150	EXISTING OVERLAND ASH CONVEYORS				
151	EXISTING SUBSTATION				
152	EXISTING TRENCH				
153	EXISTING COAL CONVEYOR TRANSFER HOUSE #4				
154	EXISTING COAL CONVEYOR TRANSFER HOUSE #5				
155	EXISTING COAL CONVEYOR TRANSFER HOUSE #6				
156	EXISTING MAGNET STRUCTURE				
157	EXISTING TERRACE LINK CONVEYOR				
158	EXISTING COAL FEEDER TRANSFER HOUSE SOUTH				
159	EXISTING INCLINED COAL CONVEYOR				
160	EXISTING DIESEL FUEL TANK				
161	EXISTING OVERLAND LINK CONVEYOR				
162	EXISTING WAGON POSITIONER				
163	EXISTING YARD CONTROLLER'S OFFICE				

GENERAL LEGEND			
	NEW STRUCTURES/FACILITIES		AGGREGATE SURFACING
	EXISTING STRUCTURES/FACILITIES		CONCRETE SURFACING
	EXISTING FENCE		PROPERTY LINE

EXTENSIVE REVISIONS
SEE PREVIOUS REVISION

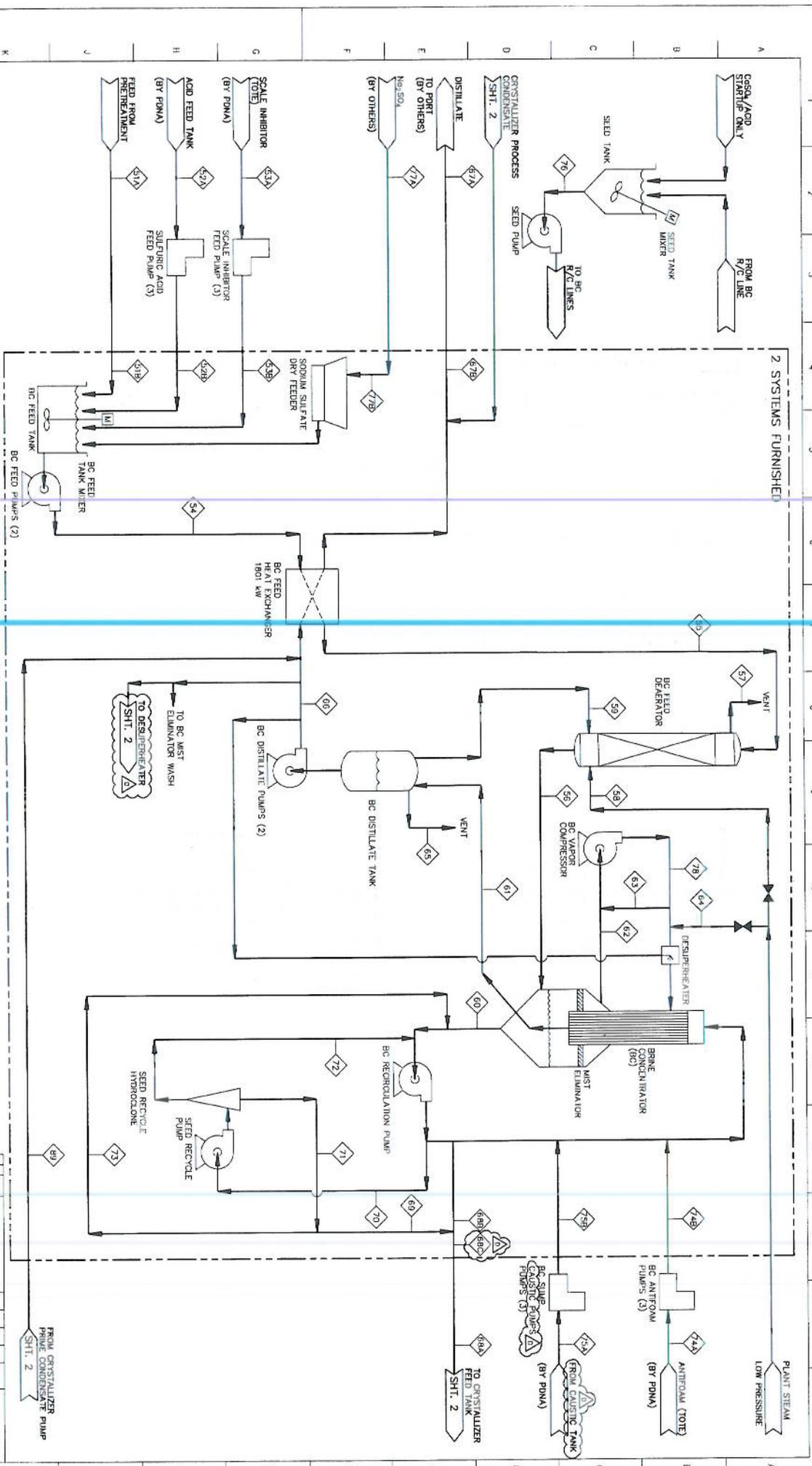
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Eskom		0.84/30759		DDL			

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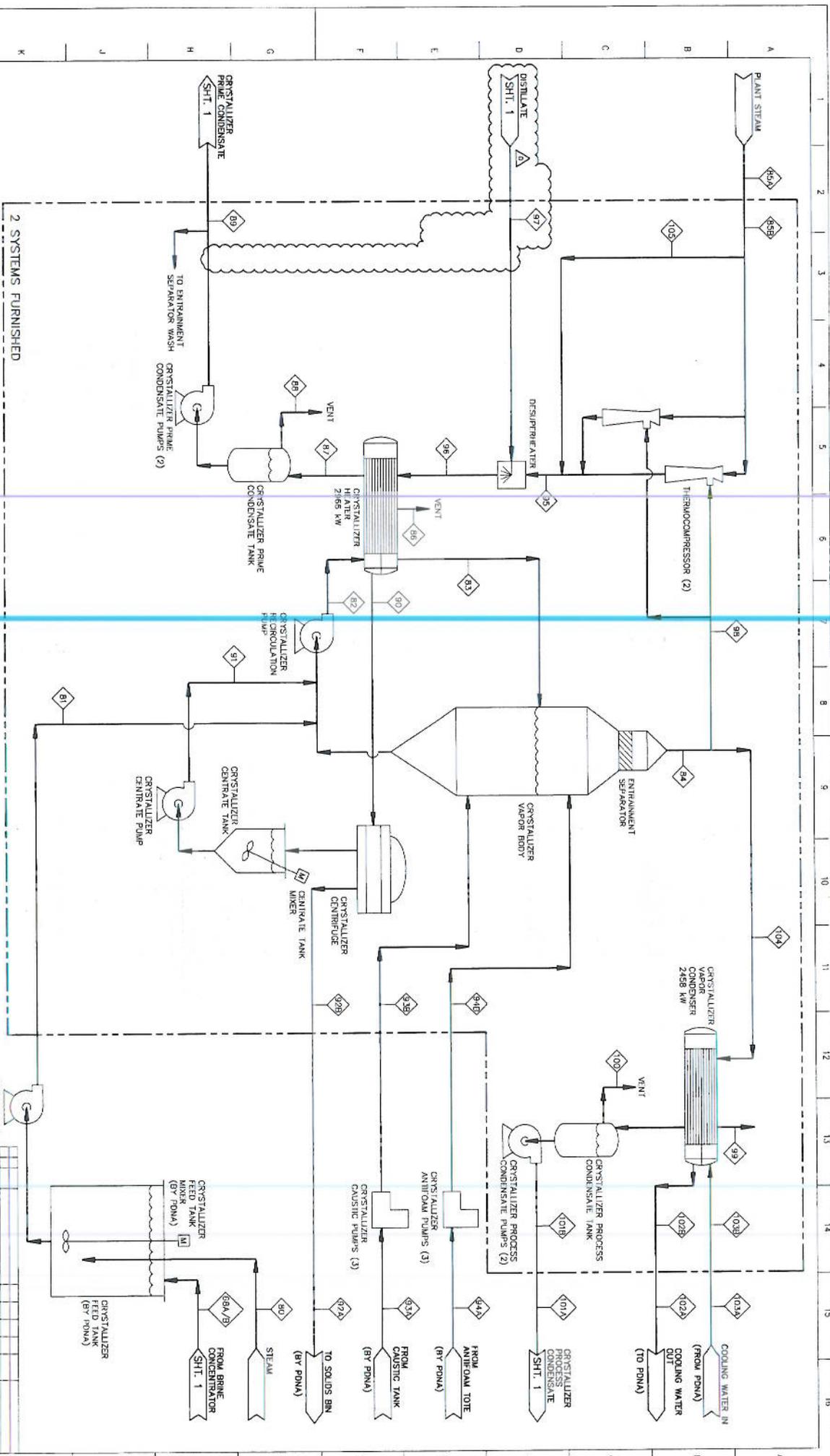


NO.	DESCRIPTION	UNIT	QTY	REMARKS
1	SEED TANK	TANK	1	
2	SEED PUMP	PUMP	1	
3	TO BC R/C LINES	PIPE	1	
4	SCALE INHIBITOR (BY PDMA)	FEED PUMP	3	
5	ACID FEED TANK (BY PDMA)	TANK	1	
6	SULFURIC ACID FEED PUMP (3)	PUMP	3	
7	SCALE INHIBITOR (TOE)	FEED PUMP	1	
8	SCALE INHIBITOR (BY PDMA)	FEED PUMP	1	
9	FROM BC STARTUP ONLY	FEED PUMP	1	
10	FROM BC R/C LINE	FEED PUMP	1	
11	TO BC FEED TANK	PIPE	1	
12	TO BC FEED TANK	PIPE	1	
13	TO BC FEED TANK	PIPE	1	
14	TO BC FEED TANK	PIPE	1	
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62	TO BC FEED TANK	PIPE	1	
63	TO BC FEED TANK	PIPE	1	
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94	TO BC FEED TANK	PIPE	1	
95	TO BC FEED TANK	PIPE	1	
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98	TO BC FEED TANK	PIPE	1	
99	TO BC FEED TANK	PIPE	1	
100	TO BC FEED TANK	PIPE	1	

CE Infrastructure
 Water & Process Technologies
 10000 17th Avenue, Suite 400, Denver, CO 80202
 Phone: (303) 750-1000
 Fax: (303) 750-1001
 Website: www.ceinfrastructure.com

ESKOM POWER STATION
 KUSILE PROJECT
 PROCESS FLOW DIAGRAM
 BRINE CONCENTRATOR FLOW SCHEMATIC
 BRINE CONCENTRATOR

SHEET NO. 2522M-02-03-00-01
 SHEET 01 OF 01



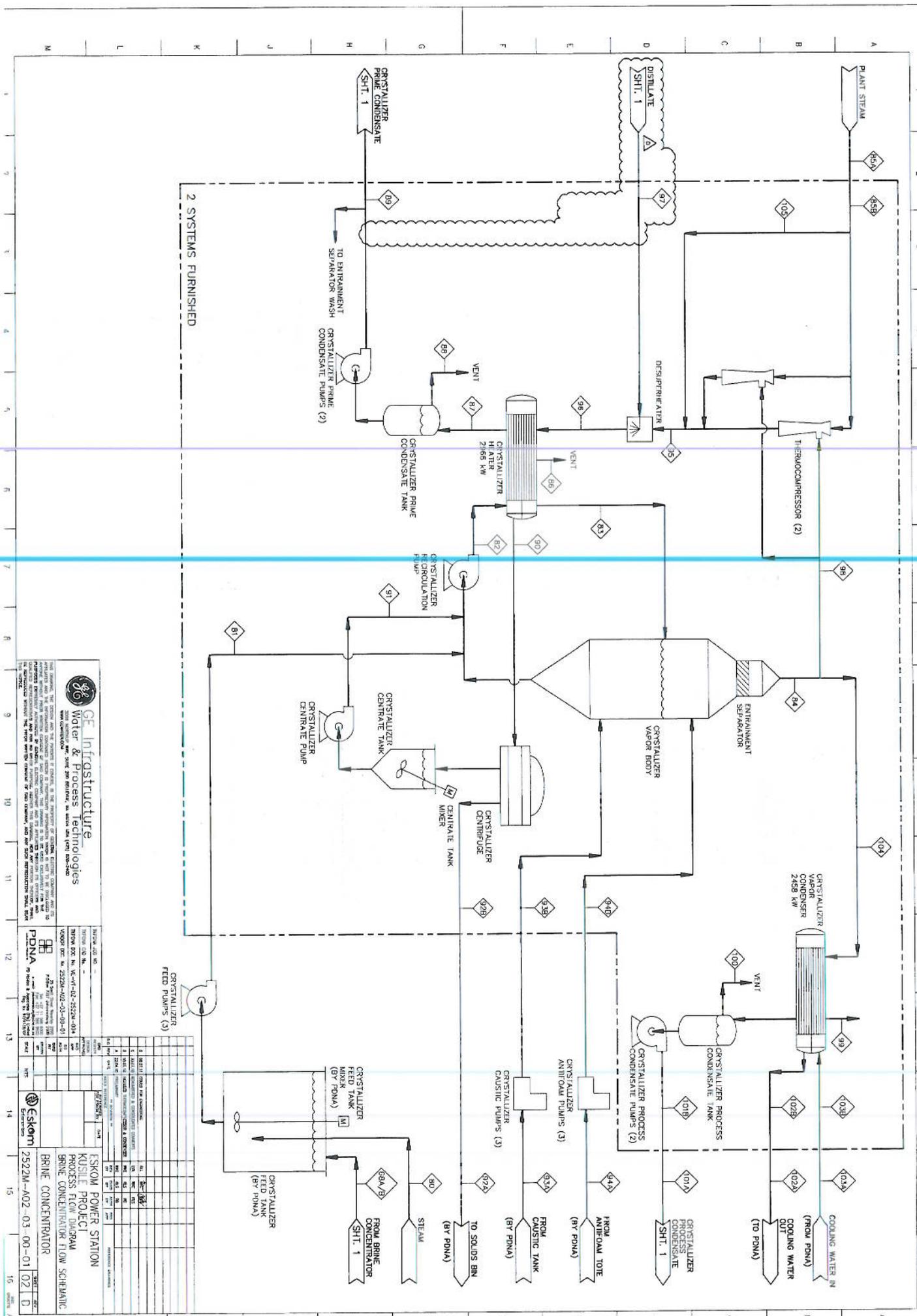
2 SYSTEMS FURNISHED

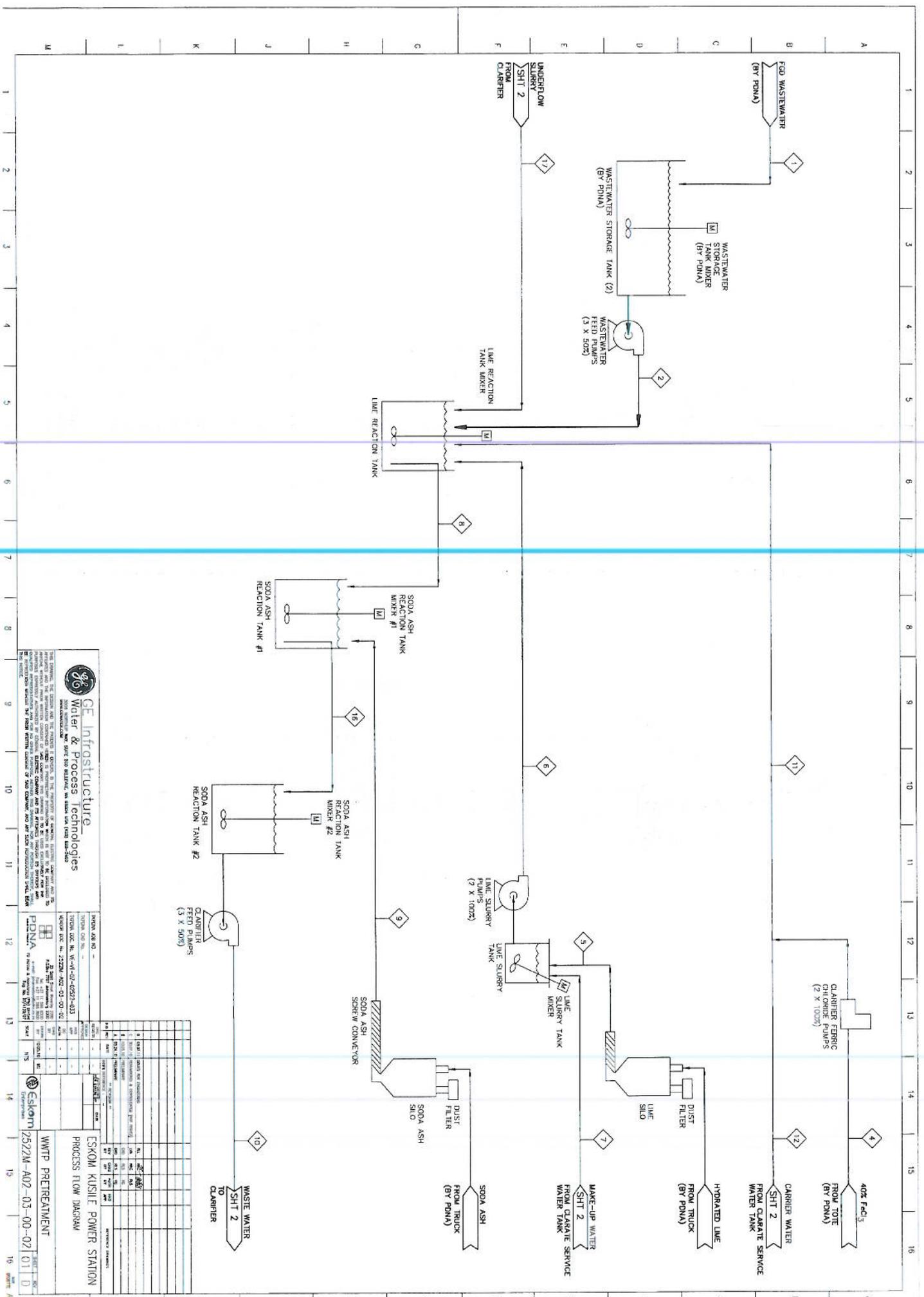
GE Infrastructure
 Water & Process Technologies

PDMA
 Process Design & Management

Escom
 Eskom Power Station

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR PERMITTING	01/01/01	...	...
2	REVISED FOR CONSTRUCTION	...	...	...
3	REVISED FOR OPERATION	...	...	...
4	REVISED FOR MAINTENANCE	...	...	...
5	REVISED FOR MODIFICATION	...	...	...
6	REVISED FOR REVISION	...	...	...
7	REVISED FOR CORRECTION	...	...	...
8	REVISED FOR IMPROVEMENT	...	...	...
9	REVISED FOR OPTIMIZATION	...	...	...
10	REVISED FOR SAFETY	...	...	...
11	REVISED FOR ENVIRONMENTAL	...	...	...
12	REVISED FOR ECONOMIC	...	...	...
13	REVISED FOR LEGAL	...	...	...
14	REVISED FOR TECHNICAL	...	...	...
15	REVISED FOR OPERATIONAL	...	...	...
16	REVISED FOR MAINTENANCE	...	...	...





GE Infrastructure
Water & Process Technologies

THE COMPANY, THE CONTRACTOR AND THE ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL THE PROCESS EQUIPMENT AND SYSTEMS TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL THE PROCESS EQUIPMENT AND SYSTEMS TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL THE PROCESS EQUIPMENT AND SYSTEMS TO BE PROVIDED BY THE CONTRACTOR.

PDNA
Process Design and
Nomenclature

NO.	DESCRIPTION	UNIT	QTY	REMARKS
1	RAW WATER	m ³ /hr	100	
2	CARRIER WATER	m ³ /hr	100	
3	HYDRATED LIME	kg/hr	100	
4	SODA ASH	kg/hr	100	
5	CLARIFIER FEED PUMPS	kg/hr	3	
6	CLARIFIER FERRIC CHLORIDE PUMPS	kg/hr	2	
7	WASTEWATER STORAGE TANK	m ³	2	
8	WASTEWATER FEED PUMPS	kg/hr	3	
9	LIME REACTION TANK MIXER	kg/hr	1	
10	SODA ASH REACTION TANK MIXER #1	kg/hr	1	
11	SODA ASH REACTION TANK MIXER #2	kg/hr	1	
12	CLARIFIER	m ³	1	

Eskom KUSILE POWER STATION
PROCESS FLOW DIAGRAM

WMP PRETREATMENT

PROJECT NO: 2522M-A02-03-00-02
SHEET NO: 01

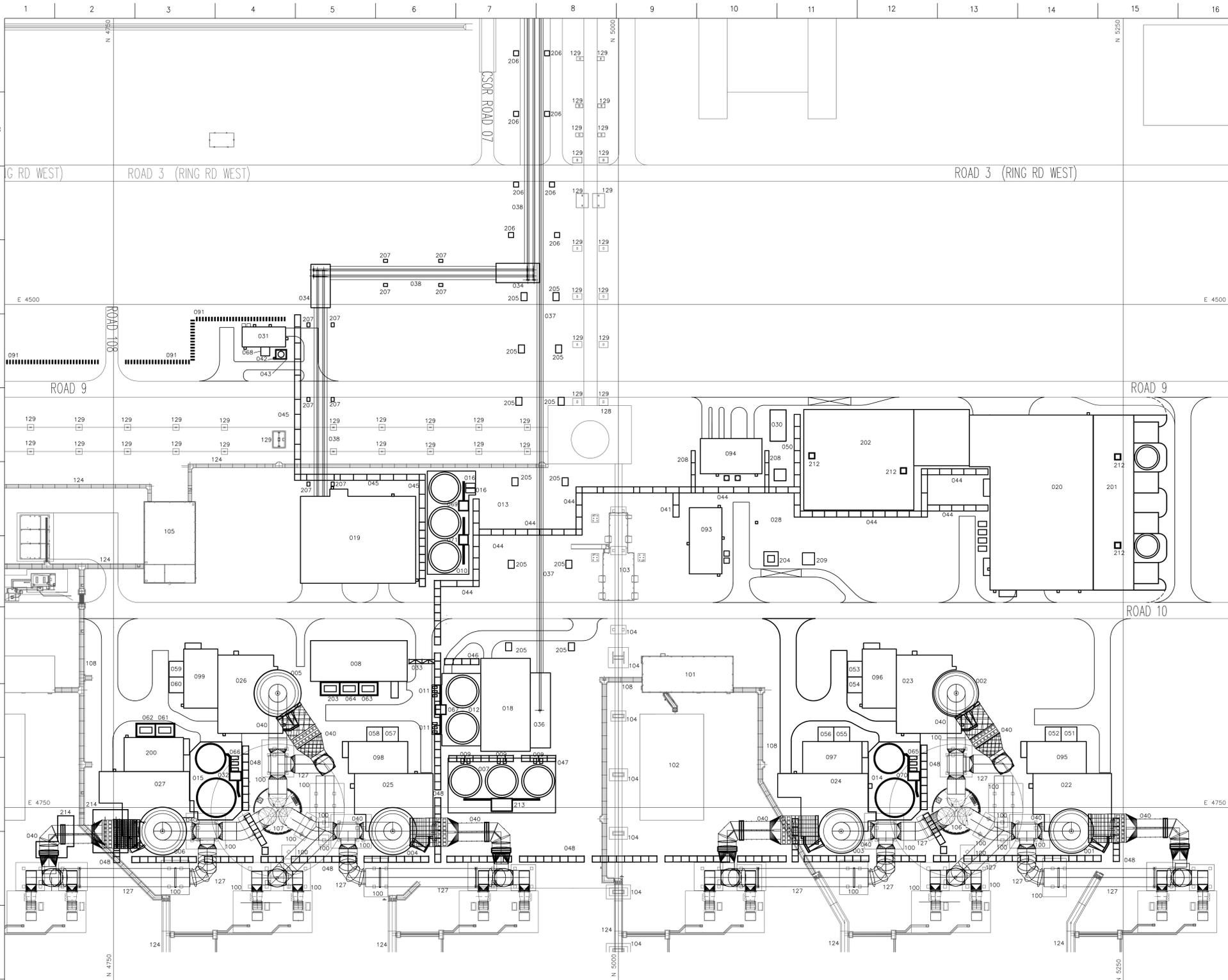
DATE: 01/01/2011

SCALE: 1:1

DESIGNED BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]



NEW FACILITIES LEGEND					
ID	NEW FACILITY	FOUNDATION	TIEDOWN LOCATION		REMARKS
			NORTH	EAST	
001	UNIT 1 ABSORBER FOUNDATION	-			
002	UNIT 2 ABSORBER FOUNDATION	-			
003	UNIT 3 ABSORBER FOUNDATION	-			
004	UNIT 4 ABSORBER FOUNDATION	-			
005	UNIT 5 ABSORBER FOUNDATION	-			
006	UNIT 6 ABSORBER FOUNDATION	-			
007	PROCESS WATER TANK FOUNDATION	-			
008	FGD COMMON SUBSTATION BLDG	-			
009	FGD PROCESS WATER PUMP FOUNDATION	-			
010	RECLAIM WATER AND FGD ZLD PRETREATMENT HOLDING TANK FOUNDATION	-			
011	LIMESTONE SLURRY FEED PUMP FOUNDATION	-			
012	LIMESTONE SLURRY FEED TANK FOUNDATION	-			
013	FUTURE FGD ZLD PRETREATMENT HOLDING TANK FOUNDATION	-			
014	UNITS 1-3 ABSORBER DRAIN AND GYPSUM BLEED TANK FOUNDATION	-			
015	UNITS 4-6 ABSORBER DRAIN AND GYPSUM BLEED TANK FOUNDATION	-			
016	FGD ZLD HOLDING TANK FORWARDING PUMP FDN	-			
018	LIMESTONE PREPARATION BUILDING	-			
019	GYPSUM DEWATERING BUILDING	-			
020	FGD ZERO LIQUID DISCHARGE TREATMENT BUILDING	-			
022	UNIT 1 ABSORBER PUMP HOUSE	-			
023	UNIT 2 ABSORBER PUMP HOUSE	-			
024	UNIT 3 ABSORBER PUMP HOUSE	-			
025	UNIT 4 ABSORBER PUMP HOUSE	-			
026	UNIT 5 ABSORBER PUMP HOUSE	-			
027	UNIT 6 ABSORBER PUMP HOUSE	-			
028	FGD EMERGENCY GENERATION BUILDING	-			
030	FGD WET COOLING TOWER EQUIPMENT FDN	-			
031	FGD MAKEUP WATER PRETREATMENT BUILDING	-			
032	UNITS 4-6 ABS DRAIN/BLEED TANK SUMP & PUMP	-			
033	FGD COMMON SUBSTATION UTILITY RACK	-			
034	GYPSUM CONVEYOR TRANSFER TOWER	-			
036	LIMESTONE DAY BIN FOUNDATION	-			
037	LIMESTONE CONVEYOR	-			
038	GYPSUM CONVEYOR	-			
040	FLUE GAS DUCT	-			
041	FGD ESSENTIAL SUBSTATION UTILITY RACK	-			
042	FGD MAKEUP WTR PRETRTMT SODIUM HYPOCHLORITE STORAGE AREA SAFETY SHOWER	-			
043	FGD MAKEUP WTR PRETRTMT SODIUM HYPOCHLORITE STORAGE TANK FOUNDATION	-			
044	ZLD UTILITY RACK	-			
045	FGD MAKEUP WATER PRETREATMENT UTILITY RACK	-			
046	LIMESTONE PREP WEST UTILITY RACK	-			
047	LIMESTONE PREP EAST UTILITY RACK	-			
048	FGD UTILITY RACK	-			
050	CLOSED CYCLE COOLING WATER UTILITY RACK	-			
051	UNIT 1 ABSORBER BRD 1 TRANSFORMER	-			
052	UNIT 1 ABSORBER BRD 2 TRANSFORMER	-			
053	UNIT 2 ABSORBER BRD 1 TRANSFORMER	-			
054	UNIT 2 ABSORBER BRD 2 TRANSFORMER	-			
055	UNIT 3 ABSORBER BRD 1 TRANSFORMER	-			
056	UNIT 3 ABSORBER BRD 2 TRANSFORMER	-			
057	UNIT 4 ABSORBER BRD 1 TRANSFORMER	-			
058	UNIT 4 ABSORBER BRD 2 TRANSFORMER	-			
059	UNIT 5 ABSORBER BRD 1 TRANSFORMER	-			
060	UNIT 5 ABSORBER BRD 2 TRANSFORMER	-			
061	UNIT 6 ABSORBER BRD 1 TRANSFORMER	-			
062	UNIT 6 ABSORBER BRD 2 TRANSFORMER	-			
063	FGD COMMON BRD 1 TRANSFORMER	-			
064	FGD COMMON BRD 2 TRANSFORMER	-			
065	UNITS 1-3 GYP BLEED/DR TANK FORWARDING PUMPS	-			
066	UNITS 4-6 GYP BLEED/DR TANK FORWARDING PUMPS	-			
067	LIMESTONE SLURRY FEED TANK SUMP & PUMP	-			
068	FGD MAKEUP WTR PRETRTMT AREA SUMP & PUMP	-			
069	FGD ZLD PRETRTMT HOLDING TANK SUMP PUMP	-			
070	UNITS 1-3 ABS DRAIN/BLEED TANK SUMP & PUMP	-			
071	RECLAIM TANK SUMP PUMP	-			
091	SLEEPERS	-			
093	FGD ESSENTIAL SERVICES SUBSTATION	-			
094	FGD COMMON PUMP BUILDING	-			
095	UNIT 1 ABSORBER SUBSTATION	-			
096	UNIT 2 ABSORBER SUBSTATION	-			
097	UNIT 3 ABSORBER SUBSTATION	-			
098	UNIT 4 ABSORBER SUBSTATION	-			
099	UNIT 5 ABSORBER SUBSTATION	-			
200	UNIT 6 ABSORBER SUBSTATION	-			
201	FGD ZLD NORTH EQUIPMENT FOUNDATION	-			
202	FGD ZLD SOUTH EQUIPMENT FOUNDATION	-			
203	FGD COMMON BRD 3 TRANSFORMER	-			
204	FGD DIESEL GEN FUEL DAY TANK FOUNDATION	-			
205	LIMESTONE CONVEYOR FOUNDATION	-			
206	LIMESTONE/GYP COMBINED CONVEYOR FOUNDATION	-			
207	GYPSUM CONVEYOR FOUNDATION	-			
208	FGD COMMON PUMP BUILDING UTILITY RACK	-			
209	FGD DIESEL GEN FIRE PROTECTION FOAM HOUSE	-			
212	ZLD TRMNT AREA SUMP PUMP FOUNDATION	-			
213	FGD MAKEUP WATER TANKS SUMP	-			
214	UNIT 6 FLUE GAS DUCT SUPPORT FOUNDATION	-			

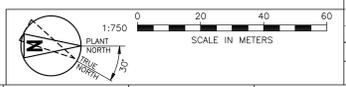
EXISTING FACILITIES LEGEND					
ID	EXISTING FACILITY	FOUNDATION	TIEDOWN LOCATION		REMARKS
			NORTH	EAST	
100	EXISTING FLUE GAS DUCT FOUNDATION				
101	EXISTING COMPRESSOR HOUSE NORTH SUBSTATION				
102	EXISTING COMPRESSOR HOUSE NORTH				
103	EXISTING INCLINED CONVEYOR DRIVE HOUSE				
104	EXISTING INCLINED COAL CONVEYOR FOUNDATION				
105	EXISTING S/S WEST				
106	EXISTING CHIMNEY UNITS 1, 2, 3				
107	EXISTING CHIMNEY UNITS 4, 5, 6				
108	EXISTING ELECTRICAL TUNNEL				
124	EXISTING SERV TRANS				
127	EXISTING DUCT				
128	EXISTING COAL FEEDER TRANSFER HSE NORTH				
129	EXISTING COAL CONVEYOR FOUNDATION				

GENERAL LEGEND			
	NEW STRUCTURES/FACILITIES		AGGREGATE SURFACING
	EXISTING STRUCTURES/FACILITIES		CONCRETE SURFACING

EXTENSIVE REVISIONS
SEE PREVIOUS REVISION

NOT TO BE USED
FOR CONSTRUCTION

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.



REV	DATE	BY	CHKD	DATE	REVISION	SCALE	SHEET	TOTAL
4	11/20/14	W	W	11/20/14	EXTENSIVE REVISIONS	1:750	4	4
3	11/20/14	W	W	11/20/14	EXTENSIVE REVISIONS	1:750	4	4
2	11/20/14	W	W	11/20/14	EXTENSIVE REVISIONS	1:750	4	4
1	11/20/14	W	W	11/20/14	ISSUED FOR TEAM REVIEW	1:750	4	4

 	MEDUPI POWER STATION MEDUPI FGD RETROFIT PROJECT SITE ARRANGEMENT 178771-CGAU-G1001 0.84/28836 DDL
----------	---

DWGNO: 07
 DWGDATE: 07/20/14 13:58:22
 ACAD: 18.2s (LMS Tech)

Ownership of the property (mark only one with an X)

Property owned by applicant (100% Share value)	X	Property leased by applicant	
Property owned by applicant (Share value less than 100%)		The property is communal land	

Please note that a complete list of all organs or state and or any other applicable authority with their contact details must be appended to this application as Appendix 4.

Identified Competent Authority to consider the application:	The Minister of Environmental Affairs.
Reason(s) in terms of S 24C of NEMA and S 19 of NEMWA	The proposed project has implication to the international environmental commitments or relations.

4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Sharon Meyer		
Professional affiliation/registration:	[Pr. Sci. Nat. (SACNASP)] [MSc Zoology and Environmental Science]		
Contact person (if different from EAP):	Bongani Dhlamini		
Company:	Zitholele Consulting (Pty) Ltd		
Physical address:	Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA		
Postal address:	PO Box 6002, Halfway House		
Postal code:	1685	Cell:	+27 78 4157801
Telephone:	+27 11- 088 8460	Fax:	+27 86 6746121
E-mail:	bonganid@zitholele.co.za		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by Regulation 16 of GN R.543, dated June 2010, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and the relevant application processes) of the EAP must also be submitted to the Department.

5.-SITE DESCRIPTION

Provide a detailed description of the site involved in the application.

Province	Limpopo
District Municipality	Waterberg District Municipality
Local Municipality	Lephalale Local Municipality
Ward number(s)	Ward 4
Nearest town(s)	Lephalale
Farm name(s) and number(s)	Hanglip 508LQ, Kuiperbult 511LQ, Grootvallei 515LQ, Kromdraai 690 LQ, Eenzaamheid 687 LQ and Naauw Ontkomen 509 LQ
Portion number(s)	0,2,6 & 7

Current land use where the site is situated:

Industrial	X	Recreation	
Agriculture		Commercial	
Residential		Mining & quarrying	
Forestry		Wilderness areas	
Wetlands		Nature area	
Open spaces			

Other current land use ...N/A.....

Current land-use zoning:

Industrial Land Use

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to , to this application.

Is a change of land-use or a consent use application required?
 Must a building plan be submitted to the local authority?

YES	NO
YES	NO

Locality map: An A3 locality map must be attached to this document, as **Appendix 5**. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometers, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.) The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and a north arrow;
- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection).

4. SITE IDENTIFICATION AND LINKAGE, LOCATION AND LANDUSE

4.1 Please indicate all the Surveyor-general 21 digit site (erf/farm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

T	0	L	Q	0	0	0	0	0	0	0	0	0	5	0	8	0	0	0	0
T	0	L	Q	0	0	0	0	0	0	0	0	0	5	0	9	0	0	0	0
T	0	L	Q	0	0	0	0	0	0	0	0	0	5	1	1	0	0	0	0
T	0	L	Q	0	0	0	0	0	0	0	0	0	5	1	5	0	0	0	0
T	0	L	Q	0	0	0	0	0	0	0	0	0	5	1	5	0	0	0	2
T	0	L	Q	0	0	0	0	0	0	0	0	0	6	9	0	0	0	0	0
T	0	L	Q	0	0	0	0	0	0	0	0	0	6	8	7	0	0	0	0
T	0	L	Q	0	0	0	1	0	0	0	0	0	5	0	8	0	0	0	6
T	0	L	Q	0	0	0	1	0	0	0	0	0	5	0	8	0	0	0	7
1	2			3			4					5							

LEGEND:

1. Refers to the Surveyor's-General Office
 2. Major Code (Registration Division)
 3. Minor code
 4. Property No (i.e. Farm No./Erf No./Holding Area No./Sheme No.)
 5. Portion Number
- (if there are more that 6, please attach a list with the rest of the numbers as **Appendix 6**)
 (These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

4.2 If the property type is not surveyed, complete the following:

Full name of leader of village, community or tribal authority	N/A
Local Authority	N/A
Magisterial District	N/A
Tribal Authority/Council	N/A

Are there any other applications for Environmental Authorisation on the same property?	YES	NO
If YES, please indicate the following:		
Competent Authority	Department of Environmental Affairs and Tourism	
Reference Number	12/12/20/695	
Project Name	CONSTRUCTION OF THE PROPOSED ESKOM HOLDINGS LIMITED: GENERATION DIVISION 4800MW COAL FIRED POWER STATION AND ASSOCIATED INFRASTRUCTURE NEAR LEPHALALE	
Please provide details of the steps taken to ascertain this information: EIA process conducted by Bohlweki Environmental (as independent consultants), study was separated into: Phase 1: Environmental Scoping Study, Phase 2: Environmental Impact Assessment Applications were sent through on the 21 of November 2005 and the Final EIR sent 22 May 2006 to the National Department of Environmental Affairs and Tourism (DEAT).		

PART C: LISTED ACTIVITIES APPLIED FOR IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE ENVIRONMENTAL IMPACT REGULATIONS, 2010

1. ACTIVITIES APPLIED FOR TO BE AUTHORISED

For an application for authorisation that involves more than one listed or specified activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Indicate the number and date of the relevant notice:	Activity No (s) (ito the relevant or notice) :	Describe each listed activity as per the detailed project description (and not as per wording of the relevant Government Notice):
NEMA GNR 545 (2010)	3	The construction of facilities or infrastructure for the storage, or for the storage and handling, of limestone as an input into the FGD process. The limestone will be stored at a volume of more than 500 cubic metres at any one time.
NEMA GNR 545 (2010)	6	The construction of facilities of infrastructure for the bulk transportation of ash using conveyors with a throughput capacity of more than 50 tons per day.
NEMA GNR 545 (2010)	11	The construction of a railway yard for purposes of transport of products to the Power Station and waste products from the Power Station.
NEMA GNR 545 (2010)	15	The physical alteration of undeveloped, vacant, or derelict land for purposes of a railway yard and associated infrastructure.

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

2. TYPE OF APPLICATION REQUIRED FOR ABOVE-MENTIONED ACTIVITIES

2.1 Application for Basic Assessment

Is this an application for conducting a basic assessment (as defined in the Regulations)?

YES	NO

Please indicate when the basic assessment report will be submitted:

N/A

2.2 Application for Scoping and Environmental Impact Reporting (S&EIR) assessment

Is this an application for S&EIR (as defined in the Regulations)?

YES	NO

Please indicate when the S&EIR Report (including the Plan of Study for EIA) will be submitted:

The Scoping Report will be submitted late October / early November 2015. This will include Plan of Study of EIR.

The S&EIR report will be submitted after consultation with the competent authority:

YES	NO

PART D: ACTIVITIES APPLIED FOR IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 AND THE ENVIRONMENTAL IMPACT REGULATIONS, 2010

SECTION 1: TYPE OF APPLICATION AND FACILITY:

1.1 Indicate the type of facility/operation and fill in the required sections only

TYPE OF ACTIVITY	MARK	SECTIONS OF THE FORM TO BE FILLED IN
Recycling and/or recovery Facility		All except Section 5
Storage and or transfer Facility		All except Section 5
Treatment facility		All except Section 5
Disposal facility		All

1.2 Activities applied for:

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

INDICATE THE NO. & DATE OF THE RELEVANT NOTICE:	ACTIVITY NUMBERS (AS LISTED IN THE WASTE MANAGEMENT ACTIVITY LIST) :	DESCRIBE EACH LISTED ACTIVITY (and not as per the wording of the relevant Government Notice):
NEMWA GNR 718 Category B	1	The storage, including temporary storage, of hazardous waste in lagoons. This activity will be triggered should the sludge require separate disposal and not be co-disposed of at the Ash Disposal Facility.
NEMWA GNR 718 Category B	5	The treatment of sludge in lagoons. This activity will only be triggered should the preferred option of co-disposal not be supported by the waste classification assessment.

NEMWA GNR 718 Category B	7	The disposal of any quantity of gypsum and sludge to the existing Ash Disposal Facility.
NEMWA GNR 718 Category B	10	The construction of facilities for activities listed in this schedule.
NEMWA GNR 718 Category C	2	The storage, including temporary storage, of hazardous waste such as gypsum, salts and sludges from the FGD process prior to disposal on or off-site. The combined storage of hazardous waste will be more than 35m ³ at any one time.

NB: Authorisation issued will only cover activities applied for and listed above. Activities added in the middle or after the processing of this authorisation may mean a totally new application.

1.3 TYPE OF APPLICATION REQUIRED FOR ABOVE-MENTIONED ACTIVITIES

1.3.1 Application for Basic Assessment

Is this an application for conducting a basic assessment (as defined in the Regulations)?

YES	NO

Please indicate when the basic assessment report will be submitted:

N/A

1.3.2 Application for Scoping and Environmental Impact Reporting (S&EIR) assessment

Is this an application for S&EIR (as defined in the EIA Regulations, 2010) reporting?

YES	NO

Please indicate when the S&EIR Report (including the Plan of Study for EIA) will be submitted:

The Scoping Report will be submitted late October / early November 2015. This will include plan of study of EIR.
--

The scoping report will be submitted after consultation with the competent authority:

YES	NO

1.4 Size of Site and Classification

Size of facility for a waste management activity	ZLD building approx – 55m x 90m External ZLD equipment footprint – 40m x 90m Pre-treatment 75m x 50m
Area where the waste management activity takes place	To be submitted with EIR
Classification of facility in terms of climatic water balance	To be submitted with EIR
Classification of Facility in terms of the type and the quantity of waste received	To be submitted with EIR

1.5 Operational times

PERIOD	FROM	UNTIL
Weekdays	12:00 AM	12:00 AM
Saturdays	12:00 AM	12:00 AM
Sundays	12:00 AM	12:00 AM
Public holidays	12:00 AM	12:00 AM

SECTION 2: WASTE QUANTITIES

2.1 Indicate or specify types of waste and list the estimated quantities expected to be managed daily (should you need more columns, you are advised to add more)

Hazardous waste	Non hazardous waste	Total waste handled (tonnes per day)
Ash		The ash is not a by-product of the FGD process but of the generating plant. However the Gypsum will be co-disposed with the Ash.
Gypsum		5 940 Tons/day @ 85% CaCO ₃ limestone purity.
Sludge/brine		Sludge waste from ZLD pre-treatment – 20.3 tons/hr @ 85% CaCO ₃ Solid Waste from Brine treatment – 5.3 tons/hr @ 85% CaCO ₃

Source of information supplied in the table above Mark with an "X"

Determined from volumes
Determined with weighbridge/scale
Estimated

X

2.2 Recovery, Reuse, Recycling, treatment and disposal quantities:

Indicate the applicable waste types and quantities expected to be disposed of and salvaged annually:

TYPES OF WASTE	MAIN SOURCE (NAME OF COMPANY)	QUANTITIES		ON-SITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE DISPOSAL
		TONS/MONTH	M ³ /MONTH	method & location	method location and contractor details	
Ash	Medupi Power Station	No recovery, reuse or recycling anticipated at this stage but this information will be confirmed in the EIR				
Gypsum	Medupi Power Station	No recovery, reuse or recycling anticipated at this stage but this information will be confirmed in the EIR. There may be potential for sale of gypsum.				
Sludge/ Brine	Medupi Power Station	No recovery, reuse or recycling anticipated at this stage but this information will be confirmed in the EIR				

SECTION 3: GENERAL

3.1 Prevailing wind direction (e.g. NWW)

November- April	NE
May -October	NE

3.2 The size of population to be served by the facility

	Mark with "X"	Comment
0-499	N/A	The facility will serve the Medupi Power Station
500-9,999		
10,000-199,999		
200,000 upwards		

3.3 The geological formations underlying the site:

Granite	X	Quartzite	
Shale	X	Dolomite	
Sandstone	X	Dolerite	

Other Mogalakwena Formation, Arenite Mudstone Coal, Karoo SuperGroup underlie the study area.

SECTION 4: COMPETENCE TO OPERATE SITE

It is imperative that the holder of the waste management licence is a fit person in terms of section 59 of the NEMWA (59 of 2008). To assess the holder’s competence to operate the site, please disclose the following:

4.1 Legal compliance

Has the applicant ever been found guilty or issued with a non compliance notice in terms of any national environmental management legislation?

Has the applicant’s licence in terms of the Waste Act 2008 ever been revoked?

Has the applicant ever been issued with a non compliance notice or letter in terms of any South African Law?

YES/NO	DETAILS
NO	
NO	
NO	

NB: Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a “fit person” and this includes reasons why the offence happened and measures in place to prevent recurrence

4.2 Technical competence

What technical skills are required to operate the site?

Currently Medupi Power Station (Eskom is under construction where all the staff and sub-contractors are qualified to hold their respective technical positions. Should more should additional staff be required the following does apply:

- Eskom shall ensure that all key positions are advertised in the newspaper and filled by competent and suitably qualified people.
- Eskom shall ensure that all personnel on site undergo specific waste management training to ensure Continuous Professional Development (CPD).
- Eskom shall ensure that personnel on site are inducted through the operations manual and through specific training prior to commencement of work on the site.
- Eskom shall ensure that all staff are properly trained and qualified to operate the plant.

How will the applicant ensure and maintain technical competency in the operation of the site?

Eskom will follow its standard operating and training procedures as those currently implemented at the power station, to ensure that the staff remains appropriately qualified.

4.3 Details of applicant's experience and qualification along with that of relevant employees must be summarised as shown in the table below:

NAME	POSITION	DUTIES AND RESPONSIBILITIES	QUALIFICATIONS AND EXPERIENCE
Bernard Pelei Petlane	Project Development Manager	Project Management	Masters - Engineering Management, 21 years of experience
Justice Bore	Project Engineering Manager	Engineering	BSc (Hons) – Technology management, Pr Tech Eng. 16 years of experience
David Tunnicliff	Land Development Programme Manager	Overseeing Land Acquisition and EIA Process	ND Survey, ND Property Evaluation, Management Certification 30 Years of experience
Henry Nawa	Project Environmental manager	Environmental	B Tech - Environmental Sciences 11 Years of experience.

Keith London	Project PED Manager	Lime supply	Honours - Business Administration + CIPS 23 Years of experience
Bruce Stroud	Project Construction Manager	Construction	Bsc - Mechanical Engineering 55 Years of experience
Mzayifani Mzebetshana	Project Rail Design Engineering manager	Rail design engineering	B Tech - Electrical Engineering 55 Years of experience
Rosetta Rammutla	Project Stakeholder Manager	Client	B Tech - Environmental Management 12 Years of experience
Chuene Manamela	Project Risk Manager	Risk management	B Comm- Accounting 8 Years of experience
Micheal Sadiki	Project Commercial Manager	Procurement	Master - Project Management 16 Years of experience

4.4 Financial Provisions

Provide a plan of estimated expenditure for the following:

	ATTACHED/NOT ATTACHED	SECTION OF THE REPORT WHERE IT IS ATTACHED
Environmental Monitoring		<i>Information to be submitted with the EIR</i>
Provision and replacement of infrastructure		<i>Information to be submitted with the EIR</i>
Restoration and aftercare		<i>Information to be submitted with the EIR</i>

SECTION 5: LANDFILL PARAMETERS

5.1 The method of disposal of waste:

Land-building Land-filling Both

The dimensions of the disposal site in metres

	At commencement	After rehabilitation
Height/Depth	Information to be submitted with the EIR and Design Report	
Length		
Breadth		

5.2 The total volume available for the disposal of waste on the site:

Volume Available	Mark with "X"	Source of information (Determined by surveyor/ Estimated)
Up to 99		Information to be submitted with the EIR
100-34 999		
35 000- 3,5 million		
>3,5 million		

5.3 The total volume already used for waste disposal:

(a) Will the waste body be covered daily	YES	NO
(b) Is sufficient cover material available		To be addressed in the operating plan
(c) Will waste be compacted daily	YES	NO

If the answers (a) and/or (b) are No, what measures will be employed to prevent the problems of burning or smouldering of waste and the generation of nuisance?

Ash/Gypsum and sludge from the power station are non-reactive wastes that cannot burn or smoulder. Nuisance dust from the facility can be prevented by installing dust suppression systems to prevent windblown dust. This will be addressed in detail in the operating plan for the facility.

5.4 The Salvage method

Mark with an "X" the method to be used.

At source	X
Recycling installation	
Formal salvaging	
Contractor	
No salvaging planned	

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
- Within the 1 in 50 year flood line of any watercourse
- Within an unstable area(fault zone, seismic zone, dolomitic area, sinkholes)
- Within the drainage area or within 5 km of water source
- Within an area with shallow and/or visible water table
- Within an area adjacent to or above an aquifer
- Within an area with shallow bedrock and limited available cover material
- Within 100 m of the source of surface water
- Within 1km from the wetland

YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
10 000 metres	
_____0_____ metres	

Indicate the distance to the boundary of the nearest residential area

Indicate the distance to the boundary of the industrial area

5.6 Wettest six months of the year

- November- April
- May -October

X

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

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 st wettest year	<i>Information to be submitted with the EIR</i>		
For the 2 nd wettest year			
For the 3 rd wettest year			
For the 4 th wettest year			
For the 5 th wettest year			
For the 6 th wettest year			
For the 7 th wettest year			
For the 8 th wettest year			
For the 9 th wettest year			
For the 10 th wettest year			

5.8 Location and depth of ground water monitoring boreholes:

Codes of boreholes	Borehole locality	Depth (m)	Latitude			Longitude		
Deep borehole on South Western perimeter	MBH01D	40	23°	74'	96"	27°	54'	7"
Shallow borehole on South Western perimeter	MBH01S	6	23°	74'	97"	27°	54'	7"
Deep borehole on Southern perimeter	MBH02D	40	23°	71'	29"	27°	55'	74"
Shallow borehole on Southern perimeter	MBH02S	9	23°	71'	28"	27°	55'	74"
Deep borehole on South Eastern perimeter	MBH03D	46	23°	71'	00"	27°	56'	71"
Shallow borehole on South Eastern perimeter	MBH03S	6	23°	71'	00"	27°	56'	71"
Deep borehole on North Eastern perimeter	MBH04D	58	23°	69'	53"	27°	58'	01"
Shallow borehole on North Eastern perimeter	MBH04S	12	23°	69'	53"	27°	58'	01"
Deep borehole on Northern perimeter	MBH05D	40	23°	69'	34"	27°	56'	44"
Shallow borehole on Northern perimeter	MBH05S	9	23°	69'	35"	27°	56'	44"
Deep borehole on North Western perimeter	MBH06S	40	23°	69'	91"	27°	54'	73"
Shallow borehole on North Eastern Perimeter	MBH04S	9	23°	69'	92"	27°	54'	74"

5.9 Location and depth of landfill gas monitoring test pit:

N/A

Codes of boreholes	Borehole locality	Latitude			Longitude		
.....	o	'	"	o	'	"
.....	o	'	"	o	'	"
.....	o	'	"	o	'	"
.....	o	'	"	o	'	"
.....	o	'	"	o	'	"
.....	o	'	"	o	'	"
.....	o	'	"	o	'	"
.....	o	'	"	o	'	"

SECTION 6: OTHER AUTHORISATIONS REQUIRED

LEGISLATION	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA's				
National Environmental Management: Air Quality Act	YES	NO	YES	NO
National Environmental Management: Biodiversity Act	YES	NO	YES	NO
National Environmental Management: Integrated Coastal Management Act	YES	NO	YES	NO
National Environmental Management: Protected Areas Act	YES	NO	YES	NO
National legislation				
Mineral Petroleum Development Resources Act	YES	NO	YES	NO
National Water Act	YES	NO	YES	NO
National Heritage Resources Act	YES	NO	YES	NO
Others: Please specify (Waste Management Act)	YES	NO	YES	NO

PART E: LIST OF APPENDICES

		SUBMITTED	
Appendix 1	Proof of Payment	YES	NO
Appendix 2	Strategic Infrastructure Projects	YES	N/A
Appendix 3	List of land owners (with contact details) and proof of notification of land owners.	YES	NO
Appendix 4	List of Organs of State and applicable authorities (with contact details)	YES	NO
Appendix 5	Project map	YES	N/A
Appendix 6	List of SGIDs	YES	NO
Appendix 7	Project schedule	YES	N/A
Appendix 8	Declaration of Applicant	YES	NO
Appendix 9	Declaration of EAP	YES	NO

APPENDIX 1: PROOF OF PAYMENT/MOTIVATION FOR EXCLUSION

Not Applicable

APPENDIX 2: STRATEGIC INFRASTRUCTURE PROJECTS

<p>SIP 1: Unlocking the northern mineral belt with Waterberg as the catalyst</p> <ul style="list-style-type: none"> • Unlock mineral resources • Rail, water pipelines, energy generation and transmission infrastructure • Thousands of direct jobs across the areas unlocked • Urban development in Waterberg - first major post-apartheid new urban centre will be a “green” development project • Rail capacity to Mpumalanga and Richards Bay • Shift from road to rail in Mpumalanga • Logistics corridor to connect Mpumalanga and Gauteng. 	
<p>SIP 2: Durban-Free State-Gauteng logistics and industrial corridor</p> <ul style="list-style-type: none"> • Strengthen the logistics and transport corridor between SA’s main industrial hubs • Improve access to Durban’s export and import facilities • Integrate Free State Industrial Strategy activities into the corridor • New port in Durban • Aerotropolis around OR Tambo International Airport. 	
<p>SIP 3: South-Eastern node & corridor development</p> <ul style="list-style-type: none"> • New dam at Mzimvubu with irrigation systems • N2-Wild Coast Highway which improves access into KwaZulu-Natal and national supply chains • Strengthen economic development in Port Elizabeth through a manganese rail capacity from Northern Cape • A manganese sinter (Northern Cape) and smelter (Eastern Cape) • Possible Mthombo refinery (Coega) and transshipment hub at Ngqura and port and rail upgrades to improve industrial capacity and performance of the automotive sector. 	
<p>SIP 4: Unlocking the economic opportunities in North West Province</p> <ul style="list-style-type: none"> • Acceleration of investments in road, rail, bulk water, water treatment and transmission infrastructure • Enabling reliable supply and basic service delivery • Facilitate development of mining, agricultural activities and tourism opportunities • Open up beneficiation opportunities in North West Province. 	
<p>SIP 5: Saldanha-Northern Cape development corridor</p> <ul style="list-style-type: none"> • Integrated rail and port expansion • Back-of-port industrial capacity (including an IDZ) • Strengthening maritime support capacity for oil and gas along African West Coast • Expansion of iron ore mining production and beneficiation. 	
<p>SIP 6: Integrated municipal infrastructure project</p> <p>Develop national capacity to assist the 23 least resourced districts (19 million people) to address all the maintenance backlogs and upgrades required in water, electricity and sanitation bulk infrastructure. The road maintenance programme will enhance service delivery capacity thereby impacting positively on the population.</p>	
<p>SIP 7: Integrated urban space and public transport programme</p> <p>Coordinate planning and implementation of public transport, human settlement, economic and social infrastructure and location decisions into sustainable urban settlements connected by densified transport corridors. This will focus on the 12 largest urban centres of the country, including all the metros in South Africa. Significant work is underway on urban transport integration.</p>	

<p>SIP 8: Green energy in support of the South African economy Support sustainable green energy initiatives on a national scale through a diverse range of clean energy options as envisaged in the Integrated Resource Plan (IRP2010) and support bio-fuel production facilities.</p> <p><i>Indicate capacity in MW:</i></p>	
<p>SIP 9: Electricity generation to support socioeconomic development Accelerate the construction of new electricity generation capacity in accordance with the IRP2010 to meet the needs of the economy and address historical imbalances. Monitor implementation of major projects such as new power stations: Medupi, Kusile and Ingula.</p> <p><i>Indicate capacity in MW: FGD will not generate any, but Medupi Power Station will generate 4 800MW (6x800MW units).</i></p>	X
<p>SIP 10: Electricity transmission and distribution for all Expand the transmission and distribution network to address historical imbalances, provide access to electricity for all and support economic development. Align the 10-year transmission plan, the services backlog, the national broadband roll-out and the freight rail line development to leverage off regulatory approvals, supply chain and project development capacity.</p>	
<p>SIP 11: Agri-logistics and rural infrastructure Improve investment in agricultural and rural infrastructure that supports expansion of production and employment, small-scale farming and rural development, including facilities for storage (silos, fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch train-line, ports), fencing of farms, irrigation schemes to poor areas, improved R&D on rural issues (including expansion of agricultural colleges), processing facilities (abattoirs, dairy infrastructure), aquaculture incubation schemes and rural tourism infrastructure.</p>	
<p>SIP 12: Revitalisation of public hospitals and other health facilities Build and refurbish hospitals, other public health facilities and revamp 122 nursing colleges. Extensive capital expenditure to prepare the public healthcare system to meet the requirements of the National Health Insurance (NHI) system. The SIP contains major builds for 6 hospitals.</p>	
<p>SIP 13: National school build programme A national school build programme driven by uniformity in planning, procurement, contract management and provision of basic services. Replace inappropriate school structures and address basic service backlog and provision of basic services under the Accelerated School Infrastructure Delivery Initiative (ASIDI). In addition, address national backlogs in classrooms, libraries, computer labs and admin buildings. Improving the learning environment will strengthen outcomes especially in rural schools, as well as reduce overcrowding.</p>	
<p>SIP 14: Higher education infrastructure Infrastructure development for higher education, focusing on lecture rooms, student accommodation, libraries and laboratories, as well as ICT connectivity. Development of university towns with a combination of facilities from residence, retail to recreation and transport. Potential to ensure shared infrastructure such as libraries by universities, FETs and other educational institutions. Two new universities will be built - in Northern Cape and Mpumalanga.</p>	
<p>SIP 15: Expanding access to communication technology Provide for broadband coverage to all households by 2020 by establishing core Points of Presence (POPs) in district municipalities, extend new Infraco fibre networks across provinces linking districts, establish POPs and fibre connectivity at local level, and further penetrate the network into deep rural areas. While the private sector will invest in ICT infrastructure for urban and corporate networks, government will co-invest for township and rural access, as well as for e-government, school and health connectivity. The school roll-out focus is initially on the 125 Dinaledi (science and maths-focussed) schools and</p>	

<p>1525 district schools. Part of digital access to all South Africans includes TV migration nationally from analogue to digital broadcasting.</p>	
<p>SIP 16: SKA & Meerkat SKA is a global mega-science project, building an advanced radio-telescope facility linked to research infrastructure and high-speed ICT capacity and provides an opportunity for Africa and South Africa to contribute towards global advanced science projects.</p>	
<p>SIP 17: Regional integration for African cooperation and development Participate in mutually beneficial infrastructure projects to unlock long-term socio-economic benefits by partnering with fast growing African economies with projected growth ranging between 3% and 10%. The projects involving transport, water and energy also provide competitively-priced, diversified, short and medium to long-term options for the South African economy where, for example, electricity transmission in Mozambique (Cesul) could assist in providing cheap, clean power in the short-term whilst Grand Inga in the DRC is long-term. All these projects complement the Free Trade Area (FTA) discussions to create a market of 600 million people in South, Central and East Africa.</p>	
<p>SIP 18: Water and sanitation infrastructure A 10-year plan to address the estimated backlog of adequate water to supply 1.4m households and 2.1m households to basic sanitation. The project will involve provision of sustainable supply of water to meet social needs and support economic growth. Projects will provide for new infrastructure, rehabilitation and upgrading of existing infrastructure, as well as improve management of water infrastructure.</p>	

APPENDIX 3: LIST OF LANDOWNERS AND PROOF OF LANDOWNER NOTIFICATION

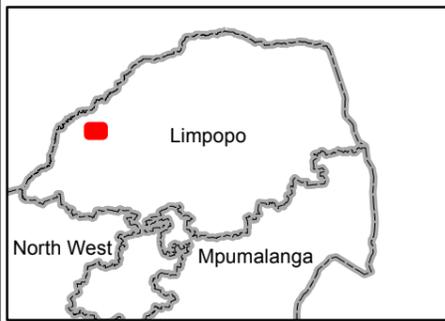
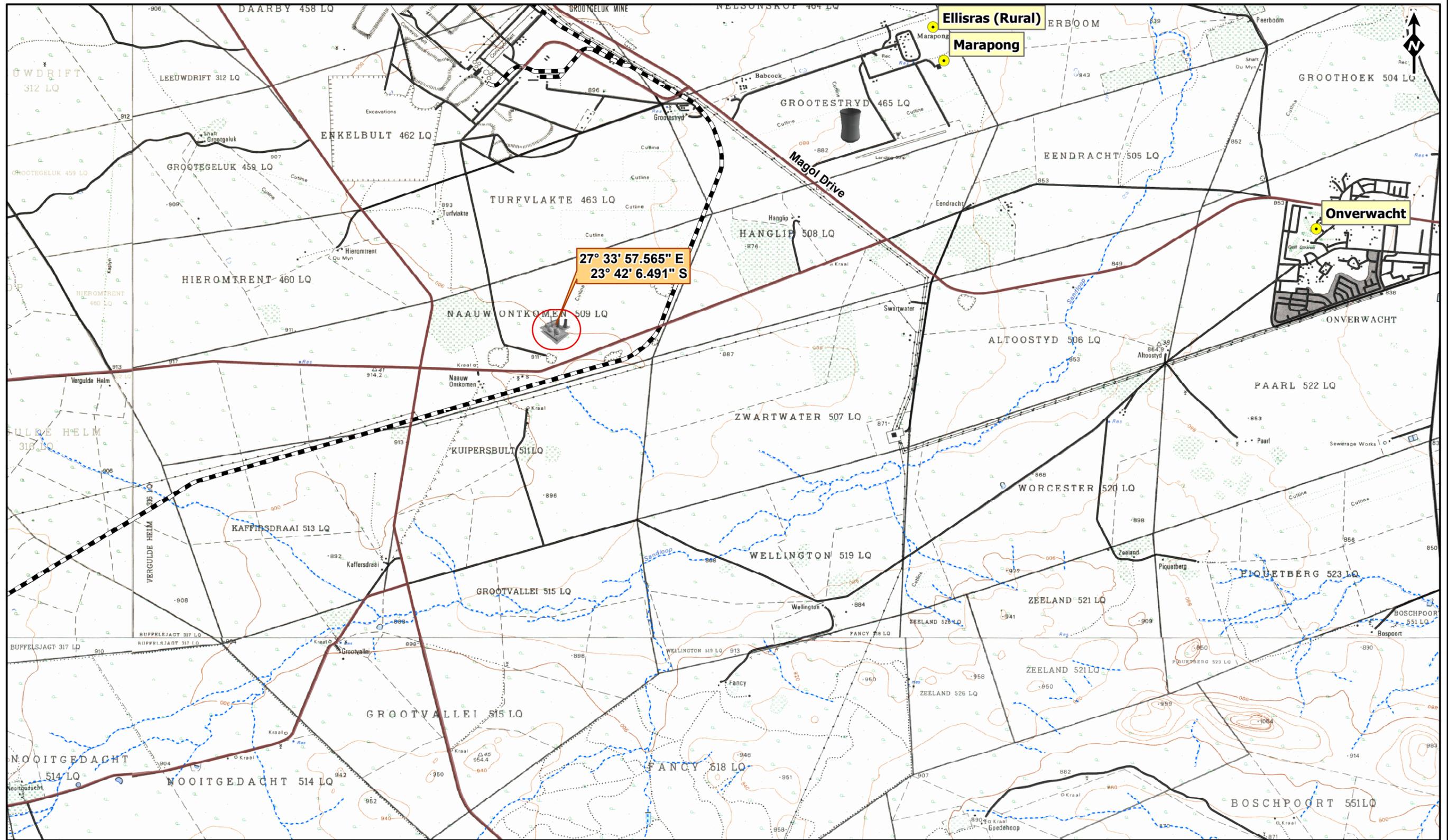
Not applicable Applicant is the owner

APPENDIX 4: LIST OF ORGANS OF STATE AND APPLICABLE AUTHORITIES

Organ of State	Physical Address:	Postal Address:
Department of Water Affairs	185 Francis Baard Street PRETORIA	Department of Water Affairs Private Bag X313 PRETORIA 0001 South Africa
Department of Environmental Affairs	Fedsure Forum Building (corner of Pretorius and Lillian Ngoyi Streets) 4 th Floor South Tower 315 Pretorius Street Pretoria 0002	Department of Environmental Affairs Attention: Director: Integrated Environmental Authorisations Private Bag X447 Pretoria 0001

APPENDIX 5: PROJECT MAP

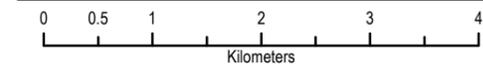
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LEGEND

- Place Names
- Medupi Power Station
- Matimba Power Station
- ROADS**
- Regional road
- Main road
- Secondary road
- Streets and other access
- Rail
- - - Non Perennial Rivers
- Perennial Rivers

RESOURCES/NOTES



PROJECT

MEDUPI FGD

TITLE

LOCALITY MAP

REFERENCE

PROJECTION GCS WGS 1984

DRAFT



GIS	VR	23/04/2014	PROJECT No. 12949
CHECK	SM	23/04/2014	SCALE 1:65 000
REVIEW	-	23/04/2014	A3 REV 0

APPENDIX 6: LIST OF SGIDS

Not Applicable

APPENDIX 7: PROJECT SCHEDULE

APPENDIX 8: DECLARATION BY THE APPLICANT

1. The Applicant

I, DAVID TUNNICLIFF, 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 -

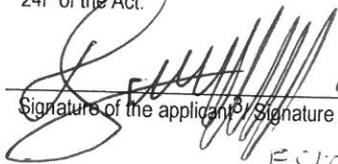
- costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
- costs incurred in respect of the undertaking of any process required in terms of the Regulations;
- costs in respect of any fee prescribed 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

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.

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.

 0400327
Signature of the applicant / Signature on behalf of the applicant:

ESKOM HOLDINGS SOC LIMITED
Name of company (if applicable):

15/04/2014
Date:

³ If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.

APPENDIX 9: EAP DECLARATION OF INTEREST

The Environmental Assessment Practitioner

I, Sharon Meyer-Douglas, declare that –

General declaration:

I act as the independent environmental practitioner in this application

I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant

I declare that there are no circumstances that may compromise my objectivity in performing such work;

I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;

I will comply with the Act, regulations and all other applicable legislation;

I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;

I have no, and will not engage in, conflicting interests in the undertaking of the activity;

I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;

I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;

I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;

I will keep a register of all interested and affected parties that participated in a public participation process; and

I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not

all the particulars furnished by me in this form are true and correct;

will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; 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.

Disclosure of Vested Interest (delete whichever is not applicable)

I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;



Signature of the environmental assessment practitioner:

Name of company: Zitholele Consulting (Pty) Ltd

Date: 25 April 2014