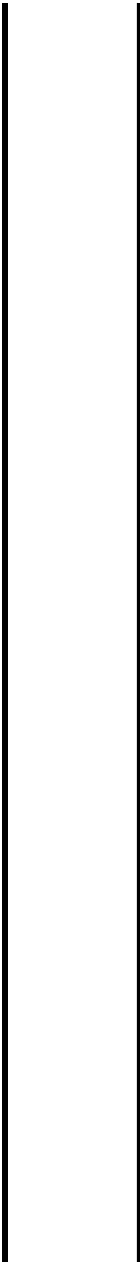


Nr.	Activity	Aspect	Medium
1	Legal Obligation	Failure to comply to legal requirements	Land, Air and Water
2	Waste Management	Waste storage, collection , transportation and disposal	Land, Air and Water
		Disposal of covid-19 waste	Land, water
		Waste separation(papers, printer cartridges, cooked oil etc.)	Land

3	Disposal of redundant computer hardware, cables and IT battery	Incorrect disposal of redundant computer hardware, battery and cables could lead to legal contraventions; Pollution to land and water	Land
4	Environmental risk assessment	Failure to identify environmental risk and hazards associated with AMD activities	Land, Air and Water
5	Performance Reporting (including Incident investigation and Audit results)	Recording and reporting of Environmental performance	Eskom annual reporting Land, Air and water

6	Water management	Water consumption	Water
		Sewer system	Land, Water
		Maintenance of waste tank	Land, Water
7	Hazardous Waste Management	Disposal of asbestos containing materials	Land, Air , Water
		Contractor Cleaning for Handling, storage, use & disposal of hazarsous chemical substances(HCS)	Land, Air , Water

Storage and disposal of fluorescent tubes	Land
Pesticides/ Fumigation application	Land, Air, Water
Lawnmower fuel during grass cutting	Land, Air, Water
Airconditioner hazardous chemical substances for handling, storage and disposal	Land, Air, Water



Battery maintenance	Land,Air,Water
Disposal of old batteries	Land,Air,Water
Diesel Tank Storage	Land,Air,Water

Underground Diesel Storage	Land,Air,Water
Use of R22 gas	Land, Air, Water
Storage, handling and disposal of sanitary waste	Land,water
Waste contracts management	Land, Air and Water

8

[Waste contracts Management](#)

9	Energy Efficiency	Commitment to Eskom energy efficiency initiative to reduce the effect of climate change, driven by Sustainability/IDM, and supported by AMD	Air and natural resources
10	Implementation of the ISO 14001:2015 certification	Conformance to ISO14001:2015	Land, Air and Water
11	Simmerpan tenants	Conformance to ISO14001:2015	Land, Air and Water
12	Vegetation	Removal of invasive alien vegetation & protected trees	Land, Air , Water

	Herbicide application	Land, Air , Water
	Cutting of grass	Land
	Wild Animals	Land
Cleaning of VLI fat trap	Fat trap maintenance	Land & water
Cooking oil Management	Oil storage and disposal	Land & water

Buying - Purchasing of Products	Purchasing and use of products that are environmentally friendly.	Air, water and Land
Project Execution	Assessing and monitoring of contractors.	Air, water and Land
Reporting / Performance	Reporting and recording all environmental related incidents.	Air, water and Land

Compiled by BUER

Name & Surname

Signature

Date

LIKELIHOOD		PROBABILITY OF AN ENVIRONMENTAL IM
3	HIGH	

Routine or on-going activity or impacts. Is known to have occurred on routine basis in the past. Impact

2 MEDIUM

Impact that is likely to occur periodically i.e. once or twice a year.

1 LOW

Very infrequent; every several years. Impacts associated with aspect are several years away.

MAGNITUDE

THE EXTENT OF AN ENVIRONMENTAL IMPACT

3 HIGH

Aspect has a recognised global environmental impact. Widespread or permanent ecological damage

2 MEDIUM

Aspect could result in a major uncontained or sustained environmental release impacting regional or local

1 LOW

Little or no ecological effect and no measurable impact on human health

THE OVERALL ENVIRONMENTAL SIGNIFICANCE SCORE IS THE PRODUCT OF MULTIPLYING THE LIKELIHOOD OF OCCURRENCE AND THE EXTENT OF AN ENVIRONMENTAL IMPACT

REGULATORY SCRUTINY

THIS FACTOR CONSIDERS THE IMPORTANCE OF REGULATORY ENFORCEMENT ACTION/FORESEEABLE LEGISLATION. IT IS A KEY INDICATOR OF THE LEVEL OF REGULATORY CONTROL THAT WILL BE APPLIED TO THE ASPECT.

3 HIGH

Very important. Regulated by legislation. High potential for regulatory action or limitations to operate (e.g., high level of control)

2 MEDIUM

Important. Although regulated but legislation is not stiff.

1 LOW

Relatively unimportant. Little or no potential for regulatory action (e.g., not regulated; not a target of enforcement)

STAKEHOLDER INTEREST

THIS FACTOR CONSIDERS THE IMPORTANCE OF THE ASPECT TO STAKEHOLDERS (e.g., past problems; impact on property values); HAS THE ASPECT CAUSED OR CAUSED DAMAGE TO REPUTATION?

3 HIGH

Very important to public and customers. Aspect has the potential to cause damage to corporate reputation

2	MEDIUM	Important to public and customers. The aspect is likely to cause damage to corporate reputation.
1	LOW	Relatively unimportant; the public is unaware or is aware but is not an issue. No threat to corporate ir

BUSINESS RISK BENEFIT		THIS FACTOR ASSESSES WHETHER THE . AND INITIATIVES ASSOCIATED WITH THE
3	HIGH	Aspect poses significant risk. Immediate response necessary. Industrial initiatives underway/develop
2	MEDIUM	Aspect is likely to pose risk.
1	LOW	Aspect does not pose significant risk. No need for immediate response. No industry initiatives associa

SIGNIFICANCE

The equal
(likelihood x magnit

THE SIGNIFICANCE RATINGS ARE CATEGORISED AS FOLLOWS	
Significance	Rating
No impact	0
Low	1 - 6
Medium	7 - 12
High	>=13

ISO 14001:2015 does not explicitly require business relevance to be addressed in identifying significant enviro instruction. Three factors have been identified as important areas to consider in the work instructor

ENVIRONMENTAL ASPECT REGISTER

ASSET MANAGEMENT DEPARTMENT (AMD)

SITE: MWP, ROSHERVILLE & SIMMERPAN

Impact	Control Measure	Likelihood		Magnitude		LXM
Could result in legal contravention Negative Publicity & penalties and fines Effect future funding requirements	1. SHE Legal, other Requirements and Evaluation of Compliance procedure (240-91214073). 2. Business Management System Audits standard (240-53413860)	Low	1	Low	1	1
1. Inappropriate handling of waste by ERE contractors can cause pollution to the environment 2. Increase in waste generation resulting in increasing disposal costs	1. Eskom waste management Standard: EPC32-245 2. Waste Training Module 2018/2019	Low	1	Low	1	1
Land pollution and human health effects	1.Developed covid-19 waste work instruction, 2. All covid-19 waste to be place in a bouble refuse bags and disposed at general waste skip	Medium	2	Low	1	2
Not recycling and or disposing of some watse can lead to depletion of natural resources.it can lead to loss of revenue.	Currently disposing as general waste	Medium	2	Low	1	2

<p>Incorrect disposal of redundant computer hardware (Laptop chargers / batteries, cables, printers) could lead to legal contraventions; Pollution to land and water</p>	<p>1. Eskom waste management Standard: EPC32-245 2. Waste Training Module 2018/2019 3. Investment Recovery processes (i) Disposal of Material / Equipment Work Instruction- 240-120131666 (ii) Eskom Procurement and Supply Chain Management Procedure 32-1034</p>	<p>Low</p>	<p>1</p>	<p>Low</p>	<p>1</p>	<p>1</p>
<p>Could results to damage to the environment and legal contravention. Penalties and fines</p>	<p>1)240 - 78305014 (Environmental aspects and management programmes/plans). 2)BUER's aspects and impacts register 3) Tx & AMD Environmental Risk Registers</p>	<p>Low</p>	<p>1</p>	<p>Low</p>	<p>1</p>	<p>1</p>
<p>Failure to integrate environmental report accurately could lead to areas of improvement's not being identified Failure to liaise timeously with Transmission Environmental Management Department could result in delayed or non- reporting</p>	<p>240 - 80662342 (Environmental monitoring, measurement, analysis and evaluation) Environmental Incident Management Procedure: 240-133087117</p>	<p>Low</p>	<p>1</p>	<p>Low</p>	<p>1</p>	<p>1</p>

1. Depletion of natural resource 2. Lack of maintenance of water reticulation may lead to increased water consumption 3. Water pollution	1.Regular inspection and maintenance 2. reporting of defects to EREhelpdesk. 3. Water consumption report from facilities 4. Water Management Policy 32-1163	Medium	2	High	3	6
Depletion of non renewable natural resources	1.Regular inspection and maintenance 2. reporting of defects to EREhelpdesk.	Medium	2	High	3	6
Sewerage spillage back into the building	1. Conduct regular inspections and maintenance of the pumps. 2. Regular sewerage treatment and disposal(suction)	Low	1	Low	1	1
If not well managed can result to pollution and which may affect human health(e.g. respiratory diseases)	1. Create asbestos containing material inventory and phase out plan, 2. Using registered contractor for the removals and disposal of asbestos containing material, 3. Maintaining identified asbestos containing material	High	3	High	3	9
Spillage of Hazardous Chemical Agent (HCA)	1. Ensure Safety Data Sheet (SDS) available at point of usage. 2.Ensure HCS are disposed correctly by registered service provider	Low	1	Low	1	1

Exposure of mercury during handling and disposal	Store fluorescent tubes in a appropriate box and ensure regular collection and disposal by registered waste removal service	Medium	2	Medium	2	4
Spillage of HCA	1. Competent person to apply pesticides (Pest Control Operator) 2.Safety Data Sheet availabe at point of use. 3. Ensure correct storage and disposal of pesticides chemicals.	Low	1	Low	1	1
1. Veld fire. 2. Spillage of fuel.	1. Contractor to have correct container for purchasing of fuel and when use. 2. The storage of fuel is not allowed on site. 3. Contractor to fire extinguisher and trained fire warden when fuel lawnmower is in use.	Medium	2	Low	1	2
Spillage of HCA	1. Ensure Safety Data Sheet (SDS) availabe at point of usage. 2.Ensure HCA are disposed correctly by registered service provider 3. Develop cleaning chemical inventory	Low	1	Low	1	1

battery acid spills, result to human health and safety implications and environmental pollution	<ol style="list-style-type: none"> 1.Ensure employees are adequately trained for safe Battery maintenance. 2. Ensure regular battery inspections. 3. Bound wall installed 4. Ensure safe extraction of fumes 	Low	1	High	3	3
<ol style="list-style-type: none"> 1. Incorrect disposal/ recycling of batteries. 2. Spillage of battery acid 	<ol style="list-style-type: none"> 1. Ensure appropriate service provider is used for disposal of old battery. 2. Regular inspection of storage area. 	Low	1	Medium	2	2
<ol style="list-style-type: none"> 1. Diesel leaks that result in surface water pollution. 2. Spillage during re-fueling of diesel tank 	<ol style="list-style-type: none"> 1. Regular inspection to determine possible leaks. 2. Regular maintenance of Diesel tank. 3. Bondwall available to contain the diesel spillage. 4. Safety Data Sheet(SDS) available at point of use. 5. Fire equipment installed and available 	Low	1	Medium	2	2

<p>1. Diesel spillage resulting to underground water pollution. 2. Fire hazards</p>	<p>1. Regular inspection to determine possible leaks. 2. Regular maintenance of underground Diesel tank. 3. Bondwall available to contain the diesel spillage. 4. Safety Data Sheet(SDS) available at point of use. 5. Fire equipment installed and available</p>	<p>Low</p>	<p>1</p>	<p>Medium</p>	<p>2</p>	<p>2</p>
<p>Ozone depleting & global warming</p>	<p>1.Replacement of all air conditioning units or system that are ozone friendly</p>	<p>Medium</p>	<p>2</p>	<p>Medium</p>	<p>2</p>	<p>4</p>
<p>Blockage of sewage pipe and unhealthy smell</p>	<p>1.Sanitary bins are provided. 2.Ensure regular collection and disposal by registered service provide for removal of sanitary bins</p>	<p>Low</p>	<p>1</p>	<p>Low</p>	<p>1</p>	<p>1</p>
<p>1..Potential for environmental incidents 2.Poor environmental performance</p>	<p>1. Establish proper legal NEC contract. 2. Provide contractor with SHE specification requirements. 3. Conduct contractor SHE file evaluation</p>	<p>High</p>	<p>3</p>	<p>High</p>	<p>3</p>	<p>9</p>

Failure to demonstrate commitment to energy efficiency initiatives results in non-compliance to Eskom policy and directive. Energy sources have some impact on our environment including air and water pollution, water use, land use, and global warming emissions	-To improve electricity efficiency performance among the business areas and save on the absolute amount of electricity consumed during peak hours - Eskom Internal Energy Efficiency Policy (240 - 66746591)	Low	1	Low	1	1
Failure to comply with the requirements of the standard could result in the BU not achieving the intended EMS outcome	Legal Compliance audit and CLI	Low	1	Low	1	1
Failure to comply with the requirements of the EMS standard could result in the BU not achieving the intended outcomes	Provide ISO 14001 CLI Waste disposal records are shared with the Simmerpan tenants. Facility to provide this records to the tenants to prove that they are considering environmental issues	Low	1	Low	1	1
Improper removal of invasive alien vegetation & protected trees	1, Identification of invasive alien vegetation & protected trees on site. 2. Develop vegetation management plan	High	3	High	3	9

Incorrect of herbicide application can lead to destruction of vegetation	<ol style="list-style-type: none"> 1. Only trained contractor to do herbicides application(PCO). 2 Regular contractor SHE File assessment. 3. Contractor SHE induction 4. SDS should be available on site 	Medium	2	Medium	2	4
Lack of regular grass cutting may lead to veld fires and legal contraventions	<ol style="list-style-type: none"> 1. Grass cutting maintenace schedule. 2. Develop Facilities EMP 3. Fire protection around simmerpan perimeter 	Medium	2	Medium	2	4
Killing or destruction of wild animals e.g snakes, spider, bees , birds etc.	<ol style="list-style-type: none"> 1. Contractor and Eskom employees SHE induction. 2. List of snake & bee catcher contact details 3. Install birds protection 	Medium	2	Medium	2	4
Can cause blockage of drainage and sewer system and pollution into streams and river or lake	<ol style="list-style-type: none"> 1. Regular cleaning of the fat trap 2. Cleaning schedule and training certificate for person responsible for cleaning 	Low	1	Low	1	1
Incorrect / poor cooking oil management practices can lead to serious ground water / surface water pollution.	<ol style="list-style-type: none"> 1. Ensure cooking oil is stored in the area where are bound walls 2. Cooking oil container closed properly to prevent oil spillage 3. Ensure cooking oil is disposed of by registered service provide and record is available 	Low	1	Low	1	1

Ozone depletion and penalties	1. Safety Data Sheets should be requested, from the supplier when products are purchased. 2. Copy of SDS are kept in the file and available at point of use 3. Provide products specification and environmental requirements are included.	Low	1	Low	1	1
Failure to make contractors aware of the impact of their deviation from set procedures could lead to a negative environmental impact.	1. Contractor SHE file evaluated before commencement of work 2. Regular monitoring of contractor through visual inspections	Medium	2	Low	1	2
Failure to report may lead to improper recording and management of environmental related incidents.	1. Ensure environmental incident are captured on SAP 2. To encourage contractors and employees to report environmental incident during induction	Low	1	Low	1	1

Approved & accepted by BU Manager/Department Manager	
Siphindile Jaxa	Name & Surname
	Signature
	Date

KEY TO ASSESSMENT RATING

IPACT OCCURRING.

risks associated with the aspects are likely to emerge soon. Impacts are unknown.

IMPACT

locally. Remediation would take longer than one year. Could result in a major public health hazard. Magnitude is unknown.

local environment only. Ecological damage can be remedied within one year. Health hazard to humans in the immediate area.

SCOPE AND MAGNITUDE RATINGS.

REGULATORY AND SCRUTINY OF THE ASPECT BY THE REGULATORS (e.g., past compliance problems; regulated by legislation; also includes any voluntary commitments Eskom has made with respect to the aspect).

(e.g. Subject to regulatory inspections; past compliance problems). Voluntary commitments or quasi-regulated aspect.

enforcement).

KEY TO ASSESSMENT RATING

REGULATORY AND SCRUTINY OF THE ASPECT BY STAKEHOLDERS INCLUDING THE GENERAL PUBLIC, ENVIRONMENTAL GROUPS AND THE MEDIA (e.g., potential for litigation; coverage in local/national press).

ation. On-going dialogue has begun; negative perception; possibility for third party lawsuits. Customers expect superior service.

page. Is not an issue with customers.

**ASPECT POSES SIGNIFICANT RISKS OR BENEFITS; THE IMPORTANCE OF EARLY RESPONSE; WHETHER T
ASPECT.**

ed. May have major impact on competitive position. May have a significant impact on value of Eskom's assets.

ated with aspect. Does not threaten competitive position. Does not affect values of Eskom's assets.

Determining Significant Environmental Aspects
tion for calculating significant environmental aspects score is:
ude) + (regulatory scrutiny + stakeholder interest + business risk/benefit)

onmental aspects. However, in order to address and enhance the emerging linkages between environmental and bus
1. Each factor is scored as 1, 2, or 3. For each category, the extreme scenarios (1 and 3) are described; the 2 rating i

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Regulatory Scrutiny		Stakeholder Interest		Business Risk/Benefit		Significance	SIGNIFICANCE (High, Medium ; Low)
Low	1	Low	1	Low	1	4	Low
Low	1	Low	1	Low	1	4	Low
Medium	2	Medium	2	Medium	2	8	Medium
High	3	Medium	2	Medium	2	9	Medium

Low	1	Low	1	Low	1	4	Low
Low	1	Low	1	Low	1	4	Low
low	1	Medium	2	low	1	5	Low

High	1	Low	1	Medium	2	10	Medium
Medium	2	Medium	2	Medium	2	12	Medium
Low	1	Low	1	Low	1	4	Low
High	2	Medium	2	High	3	16	High
Low	1	Low	1	Low	1	4	Low

Medium	2	Medium	2	Medium	2	10	Medium
Low	1	Low	1	Low	1	4	Low
Low	1	Low	1	Low	1	5	Low
Low	1	Low	1	Low	1	4	Low

Medium	2	Medium	2	Medium	2	9	Medium
Medium	2	Low	1	Medium	2	7	Medium
Medium	2	Medium	2	Medium	2	8	Medium

Medium	2	Medium	2	Medium	2	8	Medium
Medium	2	Medium	2	Medium	2	10	Medium
Low	1	Low	1	Low	1	4	Low
High	3	High	3	High	3	18	High

Low	1	Low	1	Low	1	4	Low
Low	1	Low	1	Low	1	4	Low
Low	1	Low	1	Low	1	4	Low
Medium	2	Medium	2	Medium	2	15	High

High	3	Low	1	Low	1	9	Medium
Medium	2	High	3	High	3	12	High
Medium	2	Medium	2	Medium	2	10	Medium
Low	1	Low	1	Low	1	4	Low
Low	1	Low	1	Low	1	4	Low

Low	1	Low	1	Medium	2	5	Low
Low	1	Low	1	Medium	2	6	Low
Low	1	Low	1	Medium	2	5	Low

Prince Moyo	

rown.

ate vicinity, but not resulting in critical or

slation; level of enforcement); potential for

MENTAL INTEREST GROUPS (e.g., public perception;

rior performance by Eskom in managing

HERE ARE ANY INDUSTRIAL SECTOR ISSUES

Business performance, it has been built into this work
is left to the judgement of the assessor.