 Eskom	Task Manual	Technology
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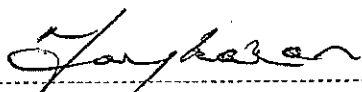
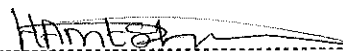
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Archie Jaykaran

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Power Delivery Maintenance Study Committee Chairperson

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1	A specific plant, project or solution	
2	A mature and stable technical area/technology	X
3	Established and accepted practices.	X


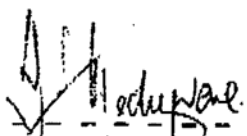
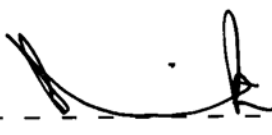
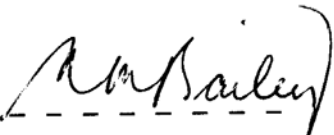
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TASK MANUAL FOR MECHANICAL AND MANUAL HANDLING OF RURAL LINE POLES AND CROSS-ARM ON A POLE-TRAILER AND TRUCK	Document Type: DMN
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Foreword

The activity of loading and off loading poles is a high risk activity and requires to be approached in a careful a manner. This task manual is written as an attempt to provide persons doing line construction with the requirements of acceptable methods and practices to be used when loading and off loading poles in order to prevent injuries to persons and damage to equipment and materials. The key aspects in the poles handling would include transportation, Handling, storage, inspection, Handling of non conformance, dealing with scrap poles, training and authorisation requirements for operators.

The following documents need to be read in conjunction with this document in order to provide the line constructor with a broader understanding to gain the necessary skill for this activity

- a) PVABY3: Procedure Handling, Auditing and stacking of new wooden poles (as amended from time to time)
- Section 4.3 ,subsection 4.3.1, 4.3.2, 4.3.3, 4.3.4 of the procedure on “transportation” of poles
 - Section 4.4 of the procedure on “Handling” of poles
 - Section 4.5 ,sub-section 4.5.1 and 4.5.2 of the procedure on “Storage” of poles
 - Section 4.6 of the procedure on “Inspection” of poles
 - Section 4.7 of the procedure on “Handling of non conformance” of poles
 - Section 4.8 of the procedure on “Dealing with scrap poles”
 - Section 6 of the procedure on “Training” of the persons required to do this activity
- b) 32-255: Directive, Lifting Machine (as amended from time to time)
- Section 2.1.sub-section 2.1.6, 2.1.7 and 2.1.8 on “Requirements”, regarding classification of equipment, Authorisation and validity of authorisation

Revision history

This revision replaces revision no 0 of document no. **DISPVABI 7**.

Date	Rev.	Clause	Remarks
Oct 2010	0	-	Compiled By: IR Ledingwane
			1)Changed the document from a procedure to a task manual and change description
			2)Introduce risk assessment requirements in section 4.1
			3) Change the document framework
			4)Change the numbering system
			5)Add definitions and abbreviations
			6)Add more poles in the table specifying the quantity of poles that may be loaded on a pole trailer
			7)Introduce the use of ramps on the trailer when loading and off loading
			8)Introduce the approved securement method
			9)Removed the erection of structures in the document
			10) Clarify the responsibilities for the different role players

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			11) Remove the manual bulk loading and off loading portions from the document 12) DISPVABI 7 document number changers to DMN_34-1377.
May 2004	0	Clause no.	1)The document have reached the expiry date
			2) The review of the documents was prompted by a recommendation of an incident investigation as result of mechanical handling incident in MEW North West region

Authorisation

This document has been seen and accepted by:	
Name	Designation
MN Bailey	Corporate Manager Divisional Technology
CD Smith	TESCOD
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This Task Manual shall apply throughout Eskom Holdings Limited.

Development team

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Introduction

This task manual has been derived from DISPVABY3, Procedure for handling, auditing and stacking of new wooden poles and replaces DISPVABI7, Procedure for manual handling of rural line poles.

Keywords

Manual and Mechanical handling of poles And Risk assessment

Bibliography

The Lineman's and cable man, s Handbook .11th edition by Thomas M.Shoemaker and James E Mack

1 Scope

1.1 Purpose

This document sets out the practices applied in loading and unloading poles from vehicles and trailers to prevent accidents to persons, damage to equipment and to the line poles themselves.

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The practices laid down are considered as 'Minimum Safe Work Practices' and shall not be deviated from unless a safer, approved method is found.

1.2 Applicability

The standard is applicable to all persons doing work for Eskom

2 Normative references

Parties using this document shall apply the most recent edition of the documents listed below (list the references below):

DST 34-132: Fire risk standard

DST 34-1150 :Lifting Machinery operator's training

DST 34-408 : Distribution Driver operator, assessment and training

01TI-07: Securing of cargo

3 Definitions and abbreviations

3.1 Definitions

Designated person: A 16(2) appointee

Delegated person to 16(2): A person assisting 16 (2)

Supervisor or team leader: 6(2) appointee or delegated person

Responsible person: Appointed in terms of ORHVS in terms of outcome 3(a)

Mechanical loading: Loading by means of a vehicle mounted crane, pole loggers carry lift loader similar to a fork lift

3.2 Abbreviations

SWL: Safe work load

KV : Kilovolts

4 Task Manual

4.1 Risk Assessment

The risk assessment shall cover risks associated with the manual or mechanical handling of the pole to which a person may be exposed and shall include:

4.1.1 Identification of risks and hazards which include but not limited to:

- 4.1.1.1 Condition of poles
- 4.1.1.2 Weight of poles to be lifted or displaced
- 4.1.1.3 Rating of all equipment to be used to lift, move and support the pole (SWL, kV, Kg)
- 4.1.1.4 Adequacy of equipment and tools with respect to the selected method of handling
- 4.1.1.5 Exposure of workers to the risks
- 4.1.1.6 Weather conditions
- 4.1.1.7 Bystanders
- 4.1.1.8 Noise levels effecting effective communication
- 4.1.1.9 Work in elevated positions
- 4.1.1.10 Unauthorised entry on the site being worked on
- 4.1.1.11 Scope of work
- 4.1.1.12 Work position of workers in relation to apparatus to be worked on

4.1.2 A monitoring plan

- 4.1.2.1 Appointment of a competent Supervisor to supervise the works
- 4.1.2.2 Job observations A record of all on job task observation shall be kept in RAS
- 4.1.2.3 Ensure that Inspections are done as specified
- 4.1.2.4 Analysis and evaluation of risks and hazards identified
- 4.1.2.5 A documented plan of safe work procedures to mitigate, reduce or control the hazards and risks that have been identified (Treat, Tolerate, terminate or transfer) to ensure that injury to the body is prevented. The document DPC 34-227 shall also be complete
- 4.1.2.6 Ensure availability of health and Safety plan which shall incorporate working at elevated position where applicable
- 4.1.2.7 Poles securement is done in accordance to the requirements 4.3.2 of procedure for the handling, auditing and stacking of new wooden poles, DISPVABY3
- 4.1.2.8 Be aware of obstacles (Fences, Telkom and railway lines, roads etc.)
- 4.1.2.9 Ensure wearing of PPE is as per Matrix. All personal protective equipment shall be in accordance with SCSASAAT8 (As amended from time to time)
- 4.1.2.10 Ensure work is done on an open, isolated, tested and sufficient earthed apparatus
- 4.1.2.11 Ensure work site is barricaded if required

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4.1.2.12 Ensure refusal to work in the event of unsafe condition is communicated to employees

4.1.2.13 Ensure that the earth footplate and spike that is connected to the truck is used where applicable

4.1.2.14 A review plan

4.1.2.15 The safety plan is to be reviewed as the conditions change

NB: Risk assessment shall be done on site for each new task and in accordance with.

4.2 Manual Loading of poles and cross arm

4.2.1 Pre-Planning

4.2.1.1 During pre-planning all the requirements in terms of tools and equipment (4.2.2) and preparations (4.2.3) are to be in place prior to the commencement of the handling of the pole

4.2.2 Tools and equipment

Rope	Hand tools
Digging bar, shovel, pick axe	Pole support (Mule or jenny)
Trailer	Rammers
Load binder	Pole pikes
Loading stakes	

4.2.3 Preparations

4.2.3.1 During preparation activity the staffs is to be briefed on the contents of the Health and safety plan which should include the following:

4.2.3.2 Before any activity is commenced, the team leader shall instruct all workmen on the intended operation and point out any hazardous conditions and dangers associated with the operation. He/she shall ensure that all workmen have understood the instructions. Only when the team leader is comfortable that the Exposure of workers to the risks is adequately addressed work can commence

4.2.3.3 The team leader shall determine the size of the team according to the weight of the pole and cross arm to ensure that they are handled with ease and safely.

4.2.3.4 The team leader shall specify the maximum quantity of poles that may be loaded on a pole trailers and the weight of each pole in accordance to table 1

4.2.3.5 The team leader shall ensure that the vehicle required to load the poles is suitable for the task

4.2.3.6 Ensure that only persons who are trained, appointed and Authorised according to the standard for lifting Machinery operator's training, DST 34-1150 and Distribution Driver operator, assessment and training DST 34-408

4.2.3.7 Ensure that the persons doing the task are competent with transportation, storage, inspection training, handling of non conformances is done in accordance to the requirements stipulated in the procedure for handling, auditing and stacking of new wooden poles,DISPVABY3

4.2.3.8 When doing loading and offloading with a vehicle mounted crane ensure that all the outriggers of the truck are used and fully extended and ensure that when working next to an energised line the truck is adequately earthed

4.2.3.9 Under no circumstances shall the loading and off-loading of poles be carried out unless properly supervised

4.2.3.10 Ensure that the surface of the pole is such that the injury to the hands is prevented

4.2.3.11 Ensure that the rating of all equipment to be used to lift, move and support the pole (SWL, Kg) is suitable in terms of the selected method of pole handling

4.2.3.12 Ensure that the weather condition is such that slippages are absent

4.2.3.13 Ensure that the access of bystanders is limited so as not to interfere with the work

4.2.3.14 Ensure that the noise levels effecting effective communication are eliminated

4.2.3.15 The team leader is to exercise oversight while standing in a position such that he is in full view of all personnel, vehicles and poles. He shall not be involved with the activity but shall be situated in a position where he/she can observe the handling and will be able to give instructions promptly

4.2.3.16 The team leader shall observe that the correct ergonomic position is taken up (back safe) when picking up a pole

4.2.3.17 The team leader shall ensure that no worker is placed between the pole and deck where the pole is to be placed and below the pole being loaded or off-loaded

4.2.3.18 The team leader shall ensure that no worker is placed in front of the uprights on the front and rear bogies before the pole is placed on the trailer and below the Pole being loaded or off-loaded

4.2.3.19 Any mechanical equipment used for loading and off-loading purposes shall have the correct lifting capacity to lift the poles.

4.2.3.20 When handling of poles in restricted areas care must be take to ensure that the work is carried out safely

4.2.3.21 When off-loading on sloping ground care must taken to stop the poles from sliding away

4.2.4 Method statement of manual and mechanical loading of poles and cross arms

4.2.4.1 The steps in 4.2.5 to 4.2.7 shall follow after the preparation step has been completed. The team leader shall, upon having ascertained that the requirements under preparations have been fully met, sanction the commencement of the loading of the pole

4.2.5 Manual loading of poles on a pole trailer

4.2.5.1 This method is allowed when small loads are being handled. No bulk loads are to be handled manually

4.2.5.2 The pole trailer shall be positioned in parallel with the poles to be loaded

4.2.5.3 A temporary ramp consisting of three to four poles placed at right angles to the trailer and the poles to be loaded shall be set up to slide the poles upwards

TASK MANUAL FOR MECHANICAL AND MANUAL HANDLING OF RURAL LINE POLES AND CROSS-ARM ON A POLE-TRAILER AND TRUCKUnique Identifier: **34-1377**Type: **DMN**Revision: **0**Page: **8 of 18**

4.2.5.4 Ropes shall be fastened around the pole, one at each end of the pole and in the middle to drag into the pole trailer. The pole shall be lifted onto the trailer one end at a time.

4.2.5.5 All workers having been allocated the positions shall lift the pole while standing on the same side and spaced evenly to distribute the weight of the pole, then carry one end of the pole into position and place it onto the ramp and slide the poles to the pole trailer on instruction of the team leader

4.2.5.6 The pole shall be secured into position on the side that is loaded first before lifting the other side by repeating 4.2.2.5

4.2.5.7 The team leader shall ensure that the pole is under control at all times from dislodging.

4.2.5.8 After loading the poles, the team leader shall ensure that the load is secured for transportation Approved belt type ratchet load binders and load stakes where required are to be used

Table 1 — Maximum quantity of poles that may be loaded on pole trailers

Pole size (Length and tip diameter)	Tip size representation with a colour tag	POLE QUANTITIES PERMISSIBLE ON				POLE WIGHT Kg Each ±
		14000kg Trailer/ Rail DZ Truck	12000kg Pole Semi- Trailer	4535 kg Pole Trailer	1800 kg Pole Trailer	
2,5 m x 140 mm	Blue	350	300	113	45	40
3,5 m x 140 mm	Blue	250	214	80	32	56
4,5 m x 160 mm	Yellow	152	130	49	19	92
5 m x 80 mm	Green	400	342	129	51	35
7 m x 120 mm	Red	140	120	45	18	100
9 m x 140 mm	Blue	80	68	25	10	175
9 m x 160 mm	Yellow	64	55	21	8	216
11,0 m x 160 mm	Yellow	49	42	15	6	285
11,0 m x 180 mm	White	40	30	13	5	340
12,0 m x 160 mm	Yellow	43	37	14	5	320
12,0 m x 180 mm	White	36	31	11	4	380
13,0 m x 160 mm	Yellow	38	33	12	5	360
13,0 m x 180 mm	White	25	20	7	3	425
14,0 m x 160 mm	Yellow	36	31	11	4	400
14,0 m x 180 mm	White	29	25	9	3	475
15,0 m x 200 mm	Purple	23	19	7	3	610
16,0 m x 180 mm	White	24	20	7	3	575
18,0 m x 180 mm	White	20	17	6	2	680

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4.2.6 Manual loading of cross-arms

4.2.6.1 Cross-arm shall only be loaded onto a pole trailer if at least one layer of poles is to be loaded on the trailer.

4.2.6.2 Every effort shall be made to place the cross-arms in such a way as to form an inverted V in the centre of the pile of poles.

4.2.6.3 Cross-arms shall be loaded onto a trailer from one side only.

4.2.6.4 Cross-arms shall be lashed across their centres onto the trailer.

4.2.6.5 After loading the cross-arms, the team leader shall ensure that the load is secure for transportation Approved belt type ratchet load binders are required.

4.2.6.6 If available, a flat deck trailer shall be used for the transportation of cross-arms and line hardware.

4.2.6.7 After travelling a suitable distance, the load shall be checked and re-secured if necessary

4.2.7 Manual Loading of poles onto ladder racks of trucks using the Piking method

4.2.7.1 The following steps are to be used when using the piking method.

4.2.7.1.1 Poles shall be positioned at the rear of the vehicle on the ground in line with the vehicle, with the open tailgate

4.2.7.1.2 The rear end shall be placed against the bumper board or bar

4.2.7.1.3 The pole is then raised at the front end, to place it on the pole support. The men raising the pole should stand side by side pushing each other towards the rear end while lifting the pole to allow the pole support to be placed underneath to carry the weight of the pole

4.2.7.1.4 Continue with step in 4.2.7.1.3 until the pole is high enough and then use the pole pikes to continue lifting the pole

4.2.7.1.5 Punch the pikes into the pole and raise the pole to the tailboard level

4.2.7.1.6 When it is at tailboard level other workers push / pull it forward, and slide the front end onto the centre ladder rack to almost midway position where it starts to balance .this will happen when a sufficient length of the pole is past the support bar and the weight of the pole is relatively evenly distributed.

4.2.7.1.7 The rear end of the pole shall be lifted from the ground using the pole pikes and at the same time moving it forward.

4.2.7.1.8 Once the pole levels itself on the front and centre ladder racks and the base is in front of the rear ladder rack, lift the pole base above the rear ladder rack and move the pole backwards sufficiently to ensure even support on all ladder racks. Workers shall at all times control the pole by the guide rope attached to the top end of the pole.

4.2.7.1.9 Secure the pole to the ladder racks using the approved securing methods

NOTE — Ensure the front and rear overhang does not exceed the regulations as laid down by the Road Ordinance

4.2.8 Mechanical loading

4.2.8.1 The pole trailer or crane mounted truck shall be positioned accordingly in relation to the poles to be loaded

4.2.8.2 When a vehicle mounted crane is being used the following procedure shall apply:

4.2.8.2.1 The team leader shall ensure that only one pole at a time is loaded on the pole carrier, truck or pole trailer.

4.2.8.2.2 The correct nylon sling shall be attached to the crane and the pole at the correct angle such that the butt end does not outweigh the top end of the pole to ensure that the pole remain stable while it is being raised to the level of deck where the pole is to be placed

4.2.8.2.3 The team leader, having ascertained that it is area is safe ,shall instruct that the pole be lifted from the place of storage to the deck

4.2.8.2.4 All the poles shall be lifted accordingly until the right number to be loaded has been reached

4.2.8.2.5 The pole/s shall then be secured using the correct securement equipment

4.2.8.3 When a carry lift loader is used the team leader shall specify the number of poles to be loaded at a time according to the capability of the carry lift loader. The poles can be safely loaded on the pole trailer

4.2.8.4 After loading the poles on the pole trailer or crane mounted truck , the team leader shall ensure that the load is secured for transportation Approved belt type ratchet load binders and load stakes where required are to be used to secure the poles

4.2.9 Driver inspections

4.2.9.1 Poles shall not protrude beyond the front crossbar on the trailer.

4.2.9.2 A red flag shall be attached to the overhanging poles at the rear of a trailer in terms of the Road Ordinance.

4.2.9.3 All lights and brakes and safety chains on trailers shall be secured in position.

4.2.9.4 The trailer brakes and lights shall be checked before the trip

4.3 Off-loading of poles and cross arms

4.3.1 Pre-Planning

4.3.1.1 During pre-planning all the requirements in terms of tools, equipment (4.2.1.2) and preparations (4.2.1.3) are to be in place prior to the commencement of the handling of poles

4.3.2 Tools and equipment

Rope	Hand tools
Digging bar, shovel, pick axe	Pole prongs
Trailer	Rammers
Load binder	Slings and D-shackles

4.3.3 Preparations

4.3.3.1 The requirements in terms relevant to offloading under 4.2.3 shall apply

4.3.4 Method statement of manual and mechanical off-loading of poles and cross-arm

4.3.4.1 The steps in 4.3.4.2 to 4.3.4.6 shall follow after the preparation step has been completed. The team leader shall, on having ascertained that the requirements under preparations have been fully met, sanction the commencement of the off-loading of the pole/s

4.3.4.2 Manual off-loading of poles from a trailer

4.3.4.2.1 The reverse of the loading 4.2.5.2 to 4.2.5.5 and 4.2.5.7 shall apply.

4.3.4.3 Manual off-loading of cross-arms from a trailer

4.3.4.3.1 The off-loading procedure shall be the reverse of the loading procedure in 4.2.6.3

4.3.4.4 Manual off-loading of poles from ladder racks of trucks

4.3.4.4.1 The off-loading procedure shall be the reverse of the loading procedure in 4.2.7.1.3 - 4.2.7.1.8

4.3.5 Mechanical off-loading

4.3.5.1 The off-loading procedure shall be the reverse of the loading procedure in 4.2.8.2.1-4.2.8.2.5

4.3.5.2 Poles off-loaded in bulk

4.3.5.2.1 Inspect the stakes holding the poles to ensure that it is securing the poles adequately

4.3.5.2.2 Loosen the load binders while the stakes are in position.

4.3.5.2.3 Offload the poles by means of a carry lift load

NOTE: Care shall be taken to avoid damaging the pole trailer brake pipes while off loading

4.3.6 Damage to poles

4.3.6.1 When off-loading poles from a pole trailer or any other vehicle, the poles shall not be overstressed as these damages the fibres and thus reduces the life and strength of the pole. Poles shall not be dropped to the ground

4.4 Responsibilities

4.4.1 The Designated Person or his delegate shall ensure, for the manual and mechanical handling of poles, that:

4.4.1.1 A safe working environment is created in terms of the OHS act, Construction

4.4.1.2 Regulations and Eskom requirements

4.4.1.3 Compliance with all the relevant legal requirements are complied to

4.4.2 The Supervisor or team leader or his delegate shall ensure that the following are available:

4.4.2.1 A documented plan of safe work procedures including integrating the SHEQ requirements to mitigate, reduce or control the hazards and shall include but not limited to

4.4.2.2 Health and safety plan

4.4.2.3 A quality management plan

4.4.2.4 Environmental management plan

4.4.2.5 Applicable drawings and scope of work are on site

4.4.2.6 A monitoring plan

4.4.2.7 A review plan

Annex A - Physical material handling
 (Normative)

Basic steps	Safety steps	Critical steps	Task observation	
			Yes	No
1. Move as close as possible to the object to be handled	<ul style="list-style-type: none"> Wear necessary PPE 			
2. Crouch down in front of the object.	<ul style="list-style-type: none"> Bend knees and keep back straight Tuck chin in 			
3. Pick up the object	<ul style="list-style-type: none"> Keep elbows close to the body Use legs to get in the upright position 	<ul style="list-style-type: none"> Get a firm grip on the object 		
4. Carry object in horizontal position when two or more persons are required	<ul style="list-style-type: none"> Ensure you are able to see over object 			
5. Change direction by using the feet	<ul style="list-style-type: none"> Change the position of the feet to place the object to the side 	<ul style="list-style-type: none"> Move heavy objects with a trolley 		
6. Put object down	<ul style="list-style-type: none"> Bend legs, keep back straight when putting object down Ensure object is firmly on ground, and fingers are clear before releasing grip 			

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Annex B - Loading poles (HIAB crane)
 (Normative)

Basic steps	Safety steps	Critical steps	Task observation	
			Yes	No
1. Park vehicle as close as possible to pole stack.	<ul style="list-style-type: none"> Use a person to guide the vehicle Wear appropriate P.P.E. 			
2. Extend outriggers and unfold crane	<ul style="list-style-type: none"> Ensure outrigger base plates are in position Operator shall remain at controls and assistant guides the operation. (Voice and hand signals) 	<ul style="list-style-type: none"> Base plates shall be level Ensure crane operator is not distracted 		
3. Place appropriate sling around pole	<ul style="list-style-type: none"> Sling shall be in a position at centre of gravity pole Tie a guide rope to the pole 	<ul style="list-style-type: none"> Ensure correct load carrying capacity sling is used (S.W.L.) Once rope is secured assistant shall stand clear and steady the pole using the guide rope 		
4. Lift pole ± 0,5 m	<ul style="list-style-type: none"> Ensure pole is correctly balanced 			
5. Place poles onto trailer		<ul style="list-style-type: none"> Ensure personnel are standing clear from trailer Poles shall be stable on trailer 		
6. Disconnect sling from crane hook				
7. Remove sling and guide rope from pole	<ul style="list-style-type: none"> Ensure hand protection is worn 			

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Annex C – Impact Assessment

(Normative)

Impact assessment form to be completed for all documents.

1 Guidelines

- All comments must be completed.
- Motivate why items are N/A (not applicable)
- Indicate actions to be taken, persons or organisations responsible for actions and deadline for action.
- Change control committees to discuss the impact assessment, and if necessary give feedback to the compiler of any omissions or errors.

2 Critical points

2.1 Importance of this document. E.g. is implementation required due to safety deficiencies, statutory requirements, technology changes, document revisions, improved service quality, improved service performance, and optimised costs.

Comment: safety deficiencies

2.2 If the document to be released impacts on statutory or legal compliance - this need to be very clearly stated and so highlighted.

Comment: None

2.3 Impact on stock holding and depletion of existing stock prior to switch over.

Comment: N/A

2.4 When will new stock be available?

Comment: N/A

2.5 Has the interchange ability of the product or item been verified - i.e. when it fails is a straight swap possible with a competitor's product?

Comment: N/A

2.6 Identify and provide details of other critical (items required for the successful implementation of this document) points to be considered in the implementation of this document.

Comment:

2.7 Provide details of any comments made by the Regions regarding the implementation of this document.

Comment: (N/A during commenting phase)

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(Continued)

3 Implementation timeframe

3.1 Time period for implementation of requirements.

Comment: With immediate effect/3months/Upon publishing/Once personnel has been made aware of the requirements

3.2 Deadline for changeover to new item and personnel to be informed of DX wide change-over.

Comment: Once personnel has been made aware of the requirements

4 Buyers Guide and Power Office

4.1 Does the Buyers Guide or Buyers List need updating?

Comment: ? /Prong

4.2 What Buyer's Guides or items have been created?

Comment:

4.3 List all assembly drawing changes that have been revised in conjunction with this document.

Comment: Prong

4.4 If the implementation of this document requires assessment by CAP, provide details under 5

4.5 Which Power Office packages have been created, modified or removed?

Comment: N/A

5 CAP / LAP Pre-Qualification Process related impacts

5.1 Is an ad-hoc re-evaluation of all currently accepted suppliers required as a result of implementation of this document?

Comment: Yes?Prong

5.2 If NO, provide motivation for issuing this specification before Acceptance Cycle Expiry date.

Comment:

5.3 Are ALL suppliers (currently accepted per LAP), aware of the nature of changes contained in this document?

Comment: N/A

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(continued)

5.4 Is implementation of the provisions of this document required during the current supplier qualification period?

Comment: N/a

5.5 If Yes to 5.4, what date has been set for all currently accepted suppliers to comply fully?

Comment: N/a

5.6 If Yes to 5.4, have all currently accepted suppliers been sent a prior formal notification informing them of Eskom's expectations, including the implementation date deadline?

Comment: N/a

5.7 Can the changes made, potentially impact upon the purchase price of the material/equipment?

Comment: N/a

5.8 Material group(s) affected by specification: (Refer to Pre-Qualification invitation schedule for list of material groups)

Comment: N/a

6 Training or communication

6.1 Is training required?

Comment: (If NO then 6.2 – 6.6 will be N/A)

6.2 State the level of training required to implement this document. (E.g. awareness training, practical / on job, module, etc.)

Comment: theoretical and practical-on job

6.3 State designations of personnel that will require training.

Comment: Responsible persons on site and persons involved with the task

6.4 Is the training material available? Identify person responsible for the development of training material.

Comment: Yes (Applicable standards)

6.5 If applicable, provide details of training that will take place. (E.G. sponsor costs, trainer, schedule of training, course material availability, training in erection / use of new equipment, maintenance training, etc).

Comment: Training in the use of methods in the document

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Annex C
(Continued)

6.6 Was Technical Training Section consulted w.r.t module development process?

Comment: N/A

6.7 State communications channels to be used to inform target audience.

Comment: Person to person

7 Special tools, equipment, software

7.1 What special tools, equipment, software, etc will need to be purchased by the Region to effectively implement?

Comment: None

7.2 Are there stock numbers available for the new equipment?

Comment:N/A

7.3 What will be the costs of these special tools, equipment, software?

8 Finances

8.1 What total costs would the Regions be required to incur in implementing this document? Identify all cost activities associated with implementation, e.g. labour, training, tooling, stock, obsolescence

Comment:

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Impact assessment completed by:

Name: I LEDINGWANE

Designation: Senior Advisor