

Task Manual

Group Technology

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Foreword

"The document was compiled to comply with the OHSAct and NRS082 requirements and to document the tasks procedure for pulling / straightening up leaning poles to ensure that maintenance tasks are carried out in a safe manner."

Revision history

This is the first addition / revision of the task Manual referenced DMN_34-2249.

Date	Rev.	Compiled By	Clause	Remarks
Sept 2011	0	DM	-	First issue of the document.
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Introduction

This Task Manual is compiled to formalize the task steps for Pulling / Straightening Up Leaning Poles to be carried out by distribution Business on behalf of Eskom Distribution Division. The document includes the latest updates in information, format, safety precautions from the task analysis to that the task are carried out in a safe manner.

Keywords

Dam; Oil; Step; Manual; Task; Ladder; Vehicle; Maintenance; and Procedure.

Bibliography

N/A

1 Scope

1.1 Purpose

The purpose of this task manual is to standardize the procedure followed when performing Pulling / Straightening Up Leaning Poles.

The purpose of this document is also to provide persons carrying out Pulling / Straightening Up Leaning Poles task with a step by step description of how to do the task, including the most critical hazards and technical specifications associated with the task.

1.2 Applicability

This Task Manual is applicable to Eskom Distribution Division and the contractors employed by the Unit.

2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed below:

2.1 Normative References

Occupational Health and Safety Act and Regulations (OHSAct);

EPC_32-846: Rev 0, Operating Regulations for High Voltage Systems;

DST_34-1462: Rev. 0, Standard For The Care, Use, Inspection And Maintenance Of Conductive And Non Conductive Ladders;

DPC_34-908: Rev. 0, Procedure for Barricading;

DISASABW3: Rev 2, Distribution Standard On Fall Arrest Systems;

DST_34-1462: Rev 0, Standard For The Selection, Care, Use, Inspection And Maintenance Of Conductive And Non-Conductive Ladders;

DST_34-1441: Rev 0, Routine line inspection and maintenance of Reticulation lines;

DPC_34-444: Rev 0, The Procedure for Use and Maintenance of Portable Earthing Gear;

SCSASABK8 (DST_34-1209): Rev 0, Soil Compaction For Stay And Pole Foundations;

DST_34-445: Rev 0, Standard for the Use of Equipontential Earth footplates; and

SCSPVACL6 (DPC_34-1402): Rev 0, Procedure For Using A Fall Arrest System;

2.2 Informative References

DGL_34-190: Rev 0, Access to Farms (includes Strategy on dealing with game farms);

EPC_32-418: Rev 0, Working AT Heights;

DPC_34-955: Rev 0. Procedure for refusal to work on the grounds of health, safety and environmental concerns;

DPC_34-227: Rev. 0, Pre-Task Planning and feedback process;

DST_34-1005: Rev. 0, Environmental management policy;

DPC_34-925: Rev 0, Procedure for refusal to work on the grounds of health, safety and environmental concerns;

EPC_32-247: Rev 0, Procedure for Vegetation Clearance and Maintenance within Overhead Power Line Servitudes and on Eskom Owned Land;

DPC_34-04: Rev 0, Procedure For The Preparation And Administration Of Distribution Standards; and

Manufacturers manual.

3 Definitions and abbreviations

Refer to definitions and abbreviations listed in recognised industry glossaries such as NRS 000 and the IEV and the following definitions and abbreviations are also applicable.

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3.1 Definitions

All definitions in EPC_32-846 and OHSAct 85 of 1993 including the following are applicable:

Task Analysis: The systematic examination of all dangerous/hazardous tasks (work) in order to identify and quantify all the potential and existing inherent hazards that employees are exposed to while the tasks are being executed.

Risk Assessment: This process involves the combined functions of hazards identification, risk analysis, risk evaluation, determining the risk control strategy/s and the identification of the risk control measures that will be implemented during the task execution.

Dangerous/hazardous task: A specific element of work, which has produced and/or which possesses the potential to produce major loss or harm to people, assets, processes/production and/or the environment when performed properly.

Directive: A document which sets out a management objective, the appropriate policy if deemed necessary, as well as the functional accountability for activities to achieve that objective and the interface between functions affected by, or responsible for the execution of, such activities.

Authorised person: Means a person, whether an employee or another person, who has been authorised in terms of these regulations.

NOTE: Only persons who have satisfied the designated person in terms of the Occupational Health and Safety Act (Act 85 of 1993) (General Machinery Regulation 2(1)) that their knowledge is adequate to perform specific duties on specified plant and that their knowledge of these regulations is sufficient may be authorised.

3.2 Abbreviations

- **CCC:** Change Control Committee.
- **CDP:** Career Development Programme;
- **CO:** Construction Official;
- EPC_32-846: Operating Regulations for High Voltage Systems (ORHVS).
- **GMR:** General Machinery Regulation
- **PCO:** Principal Construction Official;
- PML: Pedestal Mounted Ladder
- PPE: Personal Protective Equipment;
- PTO: Principal Technical Official;
- SCO: Senior Construction Official;
- **STO:** Senior Technical Official;
- **TO:** Technical Official;
- **TSC:** Technical Service Centre;
- TsPO: Technical Specialist; and
- **TSU:** Technical Services Unit;

4 Requirements

4.1 Roles and Responsibilities

The designated person or his delegate shall ensure that this procedure is implemented and adhered to. The authorised / responsible person is responsible for the safe execution of all work and activities as set out in this procedure.

4.2 Pre-Planning

4.2.1 Spares and Materials

a) N/A

4.2.2 Tools and Equipment

a) Pedestal Mounted ladder.

4.2.3 **Personal Protective Equipment**

All personal protective equipment shall be in accordance with DST_34-1710 and PPE identified from Risk assessment (DPC_34-227) performed.

- a) Hard Hat (work at height);
- b) FAS including the rescue kit;
- c) Safety boots; and
- d) Gloves.

4.2.4 Safety and Preparation

- a) Ensure that where long distances are travelled when going to work site preparations are done and guidelines given in DGL_34-256, EPC_32-93 and DMN_34-2210 are observed.
- b) Ensure that the panel/equipment to be worked is isolated and earthed in accordance with EPC_32-846.
- c) Ensure that the apparatus to be worked on is barricaded in accordance with DPC_34-908.
- d) Ensure that when visiting the work site the general inspection is done as per DMN_34-2208.
- e) Ensure that when work has to be done 2m above ground FAS and ladder usage procedures (DWN_34-101 and DISASABW3) and shall be used.
- f) Do an assessment to determine the scope of work and the resources that would be required (people, PPE, equipment, etc) as per DPC_34-227.
- g) Inspect at least 3 structures either sides of the leaning structure.

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- h) Inspect the structure conductors, insulators and the hardware conditions.
- i) Inspect the condition work site versus the scope of work
- j) Determine if the task can be carried out safely, the direction of pulling, method to be used to pull ie manual pulling with rope or using mechanical equipment.
- k) Perform a proper risk assessment before task commencement or continuously during task execution in accordance with the prescribed procedure and ensure that all members of team are included when performing risk assessment (refer to the form attached for information).

4.3 Task Execution

4.3.1 Manual method of straightening the pole under LIVE Conditions

NOTE 1: All personnel tasked to straighten poles in the network using methods covered in this document shall carry out the tasks as per this document.

NOTE 2: Workers involved in straightening the structure / poles must concentrate on the task at hand so that they can react to any prevailing situation.

NOTE 3: Using ropes shorter than the length of the pole being straightened will expose staff danger should the pole break as they will be in close proximity to it.

NOTE 4: In order to limit the amount of tension / force used in straightening the pole the hole must be slotted to ensure easy movement..

NOTE 5: Jerking the pole when straightening it will result in conductors whipping / clashing or breaking other poles.

- a) Anchors/ regulation
- b) Securing ropes at the top of the pole
- c) Attach two ropes either sides of the pole.
- d) Using the operating stick raise the ropes to the upper third of the pole from ground level.

NOTE 1: Ensure that the people pulling and controlling ropes are at distance twice the height of the pole.

NOTE 2: Ensure that pulling of the pole is done smoothly and no jerking should be allowed, this could lead to clashing of conductors at midspan.

e) Tension the ropes to support the pole.

NOTE 3: Where the soil around the pole is soft the pole could just be straightened buy pushing / pulling it without any excavation.

- f) Excavate / slot the hole on the side in the direction of pull (opposite to direction the pole is leaning towards).
- g) Pull the pole to the up-right position.
- h) Use plumb bob to check the straightness of the pole.
- i) Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209).
- j) Remove the ropes and clear the worksite

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4.3.2 Mechanical method of straightening the pole under Live Conditions

NOTE 1: Ensure that pulling/pushing of the pole is done smoothly and no jerking should be allowed, this could lead to clashing of conductors at midspan.

- a) Take hand over from control for the live line in terms of regulation 5.03.6.3.
- b) Attach the sling at the bottom of the pole.
- c) Hook the sling to the crane.
- d) Guide the sling upwards along the pole with the crane but ensure that safe work clearance is not encroached.
- e) Tension the sling to support the pole.
- f) Slot the pole hole by excavating the side in the direction of pull (opposite the direction that the pole is leaning towards).
- g) Pull the pole to the up-right position.
- h) Use plumb bob to check the straightness of the pole.
- i) Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209).
- j) Slowly release the tension of the sling and unhook the sling from the crane.
- k) Remove the slings from the pole and clear the worksite

4.3.3 Manual method of straightening the pole under DEAD Conditions

4.3.3.1 Scenario 1: Pole is leaning in line

- a) Ensure that the line is isolated and earthed as per ORHVS.
- b) Take the line hand-over from control.
- c) Attach four ropes on the pole.
- d) Using the operating stick raise the ropes to the upper third of the pole from ground level to stabilize the pole.
- e) Using FAS ascend up the pole and loosen the conductor binding wires (wrap-lock ties).
- f) Remove conductors from the insulators.

NOTE 1: Ensure that the people pulling and controlling ropes are at distance twice the height of the pole.

NOTE 2: Ensure that pulling of the pole is done smoothly and no jerking should be allowed.

NOTE 3: Where the soil around the pole is soft the pole could just be straightened buy pushing / pulling it without any excavation.

g) Slot the pole hole by excavating the side in the direction of pull (opposite to direction the pole is leaning towards).

h) Pull the pole to the up-right position.

- i) Use plumb bob to check the straightness of the pole.
- j) Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209).
- k) Ascend up the pole and re-bind the conductors on the insulators.
- I) Remove the ropes, descend from the pole and clear the worksite.

4.3.3.2 Scenario 2: Pole is leaning sideways

- a) Ensure that the line is isolated and earthed as per ORHVS.
- b) Take the line hand-over from control.
- c) Attach two ropes on the pole and the ropes must be attached at the upper third of the pole from ground level to stabilize the pole.

NOTE 1: Ensure that the people pulling and controlling ropes are at distance twice the height of the pole.

NOTE 2: Ensure that pulling of the pole is done smoothly and no jerking should be allowed.

NOTE 3: Where the soil around the pole is soft the pole could just be straightened buy pushing / pulling it without any excavation.

- d) Slot the pole hole by excavating the side in the direction of pull (opposite to direction the pole is leaning towards).
- e) Pull the pole to the up-right position.
- f) Use plumb bob to check the straightness of the pole.
- g) Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209).
- h) Remove the ropes and clear the worksite.

4.3.4 Mechanical method of straightening the pole under Dead Conditions

NOTE 1: Ensure that pulling/pushing of the pole is done smoothly and no jerking should be allowed.

4.3.4.1 Scenario 1: Pole is leaning in line (move the head of the pole)

- a) Ensure that the line is isolated and earthed as per ORHVS.
- b) Take a hand over from control in terms of regulation 5.03.6.3.
- c) Attach the sling at the bottom of the pole.
- d) Hook the sling to the crane.
- e) Guide the sling upwards along the pole with the crane.
- f) Tension the sling to stabilize the pole.
- g) Using FAS ascend up the pole and loosen the conductor binding wires (wrap-lock ties).

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b) Deceased from the sele		

h) Descend from the pole.

- i) Slot the pole hole by excavating the side in the direction of pull (opposite the direction that the pole is leaning towards).
- j) Pull / push the pole to the up-right position.
- k) Use plumb bob to check the straightness of the pole.
- I) Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209).
- m) Ascend up the pole and re-bind the conductors on the insulators.
- n) Descend from the pole.
- o) Slowly release the tension of the sling and unhook the sling from the crane.
- p) Remove the slings from the pole and clear the worksite

4.3.4.2 Scenario 2: Pole is leaning in line (Correcting the pole foot)

- a) Ensure that the line is isolated and earthed as per ORHVS.
- b) Take a hand over from control in terms of regulation 5.03.6.3.
- c) Attach the sling at the bottom of the pole.
- d) Hook the sling to the crane.
- e) Guide the sling upwards along the pole with the crane.
- f) Tension the sling to stabilize the pole.
- g) Attach two guide ropes at the foot of the pole.
- h) Lift the pole with crane and clear or excavate the hole.
- i) Guide foot of the pole to the hole position and lower pole into the hole.
- j) Use plumb bob to check the straightness of the pole.
- k) Remove the guide ropes.
- I) Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209).
- m) Slowly release the tension of the sling and unhook the sling from the crane.
- n) Remove the slings from the pole and clear the worksite

NOTE 1: Ensure that pulling/pushing of the pole is done smoothly and no jerking should be allowed, this could lead to clashing of conductors at midspan.

4.3.5 Task wrap up

NOTE 1: Ensure that work site is cleaned when the work is completed.

- a) Complete and submit required documentation.
- b) Restore site.

5 Forms and Records Documents

The attached report and the following forms shall form the record of work done.

- a) Work orders (if applicable).
- b) Written Pre-planning form.
- c) Workers register / Permit (if applicable).
- d) Risk Assessment form.

The completed report must be returned to the Work Co-ordinator together with the work order and a copy to the Technical Services Group.

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Annex A - Critical Task Observation / Risk Assessment

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(Normative)

AD C I	FORM TITLE	Critical Task Observation / Risk Assessment			Critical Task Observation / Risk Assessmen		servation / Risk Assessment		
Distribution	FORM NUMBER	34-2249	REV DATE	AS	S REQ	UIRED			
	DOCUMENT TITLE	Pulling / St	raightening U	p Leaning Po	oles				
SITE/LOCATION:									
	0				STEPS	S FOLLC	WED		
BASIC STEPS	SAFETY STEPS		CRITICAL STEPS	Y	YES	No	N/A		
Pre-job planning	Assessment atPlanning work at	the site. and resources	Validity of the au	uthorization					
				pped Vehicle r, first aid box, t, etc)					
			Knowledge of an environment, eq	ea, uipment.					
Risk assessment	On site risk ass	essment prior to	Risk assessmen	t correctly done					
Nisk assessment	commencemen	commencement of work and		ty					
	execution	execution	Proper risk asse conducted befor commencement	ssment e task					
				uation of risk					
				risks Minimised					
			 Proper commun language, instru etc. 	icating ability – ctions, signals,					
PPE	Use the correct	PPE throughout	Inspect PPE and before usage	d equipment					
Overall Safety boots, Hard ha Arrest System, Rain wear, Glo and Sunglasses	t, Fall oves		Ensure that App and safety equip worn/used durin the task.	ropriate PPE oment are g execution of					
Arrival on site	Position the velocitie	hicle at the work	Safe / Correct per vehicle	ositioning of					
Straightening up a pole where excavation is not necessary to	• Attach two rope the pole.	es either sides of	Ensure that the adhered to.	clearances are •		•	•		
straighten the pole under live conditions	 Using the operators to the up from ground level Pull the pole to position 	 Using the operating stick raise the ropes to the upper third of the pole from ground level. Pull the pole to the up-right 	Ensure that two for pulling and c straightening po attached to the c	• ontrolling when le that is still conductor		•	•		
	 Use plumb bob straightness of Compact the so in accordance t (DST_34-1209) Remove the roj worksite 	to check the the pole. bil around the pole to SCSASABK8). pes and clear the	Follow the comp as it is stipulated SCSASABK8 (D	• d in IST_34-1209).		•	•		
Straightening up a pole where excavation is necessary to	 Attach two rope the pole. 	es either sides of	Ensure that the are adhered to	clearances are •		•	•		

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straighten the pole under Live conditions	Using the operating stick raise the ropes to the upper third of the pole from ground level Tension the ropes to support the	Ensure that two ropes are for pulling and controlling v straightening pole that is st attached to the conductor	used • /hen ill	•	•	
	 pole. Excavate / slot the hole on the side in the direction of pull 	Stabilize the pole by tension it before excavation is done	ning • e	•	•	
	 (opposite to direction of pull (opposite to direction the pole is leaning towards). Pull the pole to the up-right position. Use plumb bob to check the straightness of the pole. Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209). Remove the ropes and clear the worksite 	Follow the compaction met as it is stipulated in SCSASABK8 (DST_34-12)	hod • 09).	•	•	
Mechanical method of straightening the pole under Live Conditions	 Take LIVE hand over from control in terms of regulation 5.03.6.3. Attach the sling at the bottom of the pole 	Ensure that the apparatus handed over by Control be any work commences	is • fore	•	•	
	 Hook the sling to the crane. Guide the sling upwards along the pole with the crane but ensure that safe work clearance is not 	Ensure that the correct slin used and the clearances a adhered to when attaching	g is re it.	•	•	
	encroached.Tension the sling to support the pole.	Stabilize the pole by tensio it before excavation is done	ning e	•	•	
	 Slot the pole hole by excavating the side in the direction of pull (opposite the direction that the pole is leaning towards). Pull the pole to the up-right 	Follow the compaction met as it is stipulated in SCSASABK8 (DST_34-124)	hod 09).	•	•	
	 position. Use plumb bob to check the straightness of the pole. Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209). Slowly release the tension of the sling and unhook the sling from the crane. Remove the slings from the pole and clear the worksite 	 The sling is under tension the pole is being straighter up therefore slowly release tension when removing the sling. 	when ed the	•	•	
Where excavation is not necessary to straighten the pole under Dead Conditions- Pole is leaning	 Ensure that the line is isolated and earthed as per ORHVS. Take the line hand-over from 	Check that the line is OPEI ISOLATED, SAFETY TES and EARTHED.	N, • FED	•	•	
sideways.	control.Attach two ropes on either sides of the pole.	Ensure that the apparatus handed over by Control be any work commences	is • fore	•	•	
	 Using the operating stick raise the ropes to the upper third of the pole from ground level. Pull the pole to the up-right 	 Ensure that two ropes are for pulling and controlling v straightening pole that is st attached to the conductor 	used • /hen ill	•	•	
	 position. Use plumb bob to check the straightness of the pole. Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209). Remove the ropes and clear the worksite. 	Follow the compaction met as it is stipulated in SCSASABK8 (DST_34-12)	hod • 09).	•	•	
Where excavation is not necessary to straighten the pole under Dead Conditions – Pole is leaning in line.	 Ensure that the line is isolated and earthed as per ORHVS. Take the line hand-over from easted 	Check that the line is OPEI ISOLATED, SAFETY TEST and EARTHED.	N, FED	•	•	
	Attach four ropes on the pole.	Ensure that the apparatus handed over by Control be any work commences	fore	•	•	

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	 Using the operating stick raise the ropes to the upper third of the pole from ground level to stabilize the 	Stabilize and anchor the power with four ropes.	ole •	•	•
	pole. • Using FAS ascend up the pole	Ensure that FAS is used through out task execution		•	•
	 wires (wrap-lock ties). Remove conductors from the insulators. Descend from the pole. Pull the pole to the up right position. Use plumb bob to check the straightness of the pole. Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209). Using FAS ascend up the pole and re-bind the conductors on the insulators. Remove the ropes, descend from the pole and clear the worksite. 	•	•	•	•
Where excavation is necessary to straighten the pole under Dead Conditions:- Pole is leaning in line.	 Ensure that the line is isolated and earthed as per ORHVS. Take the line hand-over from control. Attach four ropes on the pole. Using the operating stick raise the ropes to the upper third of the pole from ground level to stabilize the pole. 	 Check that the line is OPE ISOLATED, SAFETY TES and EARTHED. 	N, TED	•	•
		 Ensure that the apparatus handed over by Control be any work commences 	is fore	•	•
		Stabilize and anchor the powith four ropes. Ensure that EAS is used.		•	•
	 Using FAS ascend up the pole and loosen the conductor binding using (some last time) 	through out task execution			
wires (w • Remove insulator • Slot the	 Wires (Wrap-lock ties). Remove conductors from the insulators. Slot the pole hole by excavating the direction of null. 	Follow the compaction me as it is stipulated in SCSASABK8 (DST_34-12	thod 09).		
	(opposite to direction the pole is leaning towards).	•	•	•	•
	 Pull the pole to the up-right position. Use plumb bob to check the plumb	•	•	•	•
	 Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209). 	•	•	•	•
	 Ascend up the pole and re-bind the conductors on the insulators. Remove the ropes, descend from the pole and clear the worksite. 	•	•	•	•
Where excavation is necessary to straighten the pole under Dead Conditions:-Pole is leaning sideways.	 Ensure that the line is isolated and earthed as per ORHVS. Take the line hand-over from control. Attach two ropes on the pole and the ropes must be attached at the upper third of the pole from ground level to stabilize the pole. Slot the pole hole by excavating 	 Check that the line is OPE ISOLATED, SAFETY TES and EARTHED. 	N, • TED	•	•
		 Ensure that the apparatus handed over by Control be any work commences 	is • fore	•	•
		Stabilize the pole with two	ropes •	•	•
	the side in the direction of pull (opposite to direction the pole is leaning towards).	Follow the compaction mer as it is stipulated in SCSASABK8 (DST_34-12)	thod • 09).	•	•

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	 Pull the pole to the up-right position. Use plumb bob to check the straightness of the pole. Compact the soil around the pole in accordance to SCSASABK8 (DST_34-1209). Remove the ropes and clear the worksite. 	•	•	•	•
Where excavation is necessary to straighten the pole Mechanically under Dead Conditions:-Pole is leaning in line (move the head of the	 Ensure that the line is isolated and earthed as per ORHVS. Take a hand over from control in terms of regulation 5 03 6 3 	Check that the line is OPEN ISOLATED, SAFETY TEST and EARTHED. Ensure that the apparatus is	I, • ED	•	•
pole).	 Attach the sling at the bottom of the pole. 	 Ensure that the apparatus is handed over by Control before any work commences 	ore	•	•
	 Hook the sling to the crane. Guide the sling upwards along the pole with the crane. 	 Tension the sling to stabilize pole before ascending or starting with work 	e the •	•	•
	 Tension the sling to stabilize the pole. Using FAS ascend up the pole and loosen the conductor binding wires (wrap-lock ties). Descend from the pole. Slot the pole hole by excavating the side in the direction of pull (opposite the direction that the pole is leaning towards). 	 Follow the compaction meth as it is stipulated in SCSASABK8 (DST_34-120 	nod • 9).	•	•
 and loosen the corwires (wrap-lock times) Descend from the Slot the pole hole I the side in the direction of the di		• The sling is under tension w the pole is being straightene up therefore slowly release tension when removing the sling.	• ed the	•	•
	Pull / push the pole to the up-right position.Use plumb bob to check the	•	•	•	•
	 Compact the soil around the pole in accordance to SCSASABK8 	•	•	•	•
	 (DST_34-1209). Ascend up the pole and re-bind the conductors on the insulators. Descend from the pole. Slowly release the tension of the sling and unhook the sling from the crane. Remove the slings from the pole and clear the worksite 	•	•	•	•
Where excavation is necessary to straighten the pole Mechanically:- Pole is leaning in line (Correcting	 Ensure that the line is isolated and earthed as per ORHVS. Take a hand over from control in 	Check that the line is OPEN ISOLATED, SAFETY TEST and EARTHED	I, • ED	•	•
the pole foot)	 terms of regulation 5.03.6.3. Attach the sling at the bottom of the pole. Hook the sling to the crane. Guide the sling upwards along the pole with the crane. Tonsion the sline to stabilize the sline to stabi	Ensure that the apparatus is handed over by Control before any work commences	ore	•	•
		Follow the compaction meth as it is stipulated in SCSASABK8 (DST_34-120)	nod • 9).	•	•
	 pole. Attach two guide ropes at the foot of the pole. Lift the pole with crane and clear or excavate the hole. Guide foot of the pole to the hole position and lower pole into the hole. Use plumb bob to check the straightness of the pole. Remove the guide ropes. 	Tension the sling to stabilize pole before ascending or starting with work	e the •	•	•

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	Compact the soil around the	e pole	•		•	•	•
	 in accordance to SCSASABI (DST_34-1209). Slowly release the tension of sling and unhook the sling from the crane. Remove the slings from the land clear the worksite 	K8 of the om pole					
Where excavation is not necessary to straighten the pole Mechanically	 Ensure that the line is isolate earthed as per ORHVS. Take a hand over from contr 	ed and rol in	 Check that the line is OPE ISOLATED, SAFETY TES and EARTHED 	N, TED	•	•	•
leaning sideways.	terms of regulation 5.03.6.3.Attach the sling at the bottom the pole.	m of	 Ensure that the apparatus handed over by Control be any work commences 	is efore	•	•	•
	 Hook the sling to the crane. Guide the sling upwards alor pole with the crane. Pull the pole to the up-right position 	ng the	 Follow the compaction me as it is stipulated in SCSASABK8 (DST_34-12) 	ethod 209).	•	•	•
	 Use plumb bob to check the straightness of the pole. Compact the soil around the in accordance to SCSASABI (DST_34-1209). Slowly release the tension of sling and unhook the sling from the crane. Remove the slings from the and clear the worksite. 	pole K8 of the om pole	Tension the sling to stabili pole before ascending or starting with work	ze the	•	•	•
Task wrap up	 Remove all personnel, equip and redundant material from Complete and submit require documentation Restore site 	oment n site. ed	 Clean the work site after the completion of work. Ensure that all personnel are aware that the task is completed and the apparagoing to be energised 	he on site itus is			
<u>Remarks:</u>							
OBSERVER SIGNATURE:	Р	PERSONC	BSERVED SIGNATURE:				
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Annex B-Impact assessment

(Normative)

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, optimized costs.

Comment: Statutory requirements and or document revisions

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: No impact on statutory or legal compliance and mainly document revisions

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

Comment: N/A - No new equipment or item need to be acquired for implementation of this document.

2.4 When will new stock be available?

Comment: N/A -see 0 above.

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 – It is a maintenance document and also see 0 above.

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: Consult / Refer to equipment maintenance documents when implementing the document.

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

Comment: None.

Annex B

(continued)

3 Implementation timeframe

3.1 Time period for implementation of requirements.

Comment: N/A – No technical changes were made to this document.

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

Comment: None.

4 Buyers Guide and Power Office

4.1 Does the Buyers Guide or Buyers List need updating?

Comment: NO.

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

Comment: NONE.

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

Comment: NONE – The configuration hasn't changed.

4.4 If the implementation of this document requires assessment by CAP, provide details under Error! Reference source not found.

Comment: N/A – The revision requires no new equipment / assessment.

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

Comment: NONE:

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: NO

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

Comment: N/A – The document doesn't specify but stipulated the maintenance procedures on the existing equipment.

Annex B

(continued)

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

Comment: N/A – The specification is supplied to the suppliers not this document.

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

Comment: Yes – This is the revision of document that is presently being implemented and requires no change to the supplier's qualification period.

5.5 If Yes to 0, what date has been set for all currently accepted suppliers to comply fully?

Comment: N/A – see Error! Reference source not found. above.

5.6 If Yes to 0, 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 – see Error! Reference source not found. above.

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

Comment: N/A – No new material is required.

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

Comment: N/A – No new material is required.

6 Training or communication

6.1 State the level of training or communication required to implement this document. (E.g. none, communiqués, awareness training, practical / on job, module, etc.)

Comment: Practical / On job and training module.

6.2 State designations of personnel that will require training.

Comment: TSO, PTO & STO.

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

Comment: Yes – DT- Training is revising earthing related training manual which will address the changes in this document.

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6.4 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: Safety and Maintenance training.

6.5 Was Training & Development Section consulted w.r.t training requirements?

Comment: Yes.

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 – No new equipment is required.

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

Comment: N/A – No new equipment is required.

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:

No costs other than the training will be incurred by the regions and this will depend on the arrangements made for training ie Training is held regionally or nationally.

Impact assessment completed by:

Name: David M. Ntombela_____

Designation: Consultant_____