

Standard

Technology

Title: CRITERIA FOR THE TECHNICAL Unique Identifier:

EVALUATION OF LIVE-WORK

CONTRACTORS

240-151423891

Alternative Reference Number: 34-373

Area of Applicability:

Engineering

Documentation Type:

Standard

Revision:

1

Total Pages:

17

Next Review Date:

April 2025

Disclosure Classification:

Controlled Disclosure

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PCM Reference: 240-41836800

SCOT Study Committee Number/Name: Power Delivery Plant Maintenance Study Committee

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1. Introduction

This document was compiled by: Work Group and is applicable to all Live workers including contractors.

2. Supporting clauses

2.1 Scope

The purpose is to have a national evaluation document to enable the assessor to conduct fair and transparent evaluations on possible live work contractors prior to a contract being awarded to them, and also to be used during follow up audits. The outcome of this evaluation will enable the assessor to compile a report for Management to prove compliance / non-compliance to the Live Work standards, and Task Manuals.

2.1.1 Purpose

The purpose is to evaluate whether the respective contractors are able to meet the requirements for quality management and possess the necessary capability in terms of the following:

- Human Resources
- Vehicles
- Basic hand tools
- PPE
- Live work equipment
- Lifting gear
- Expertise
- Business Premises
- Quality management systems
- Safety Risk Process
- OHS act

2.1.2 Applicability

This document is applicable to all contractors who are working Live or indicated their interest to obtain live work contracts in Eskom.

2.2 Normative/Informative references

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

2.2.1 Normative

- [1] 240-135663316, Care, Inspection, Maintenance and testing of insulating gloves, sleeves, hoses, blankets and covers for live working.
- [2] 240-146738795, Standard for High Voltage Live Working.
- [3] 240-76222282, Care, Inspection, Maintenance and testing of live work lifting equipment
- [4] 240-125004047, Routine inspection, care, maintenance and testing of insulating aerial devices
- [5] 240-142701257, Minimum Requirements to be met for the Manufacturing of Live Work Insulating MEWP's.

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- [6] 240-70413029, Care, Inspection, Maintenance and Testing of Live Work strain carriers.
- [7] 240-139695158, High Voltage Live Work Training standard.
- [8] 240-70175091, The Use, Care, Maintenance and Testing of High Voltage Operating sticks.
- [9] SCSASAAZ6, Standard for the inspection care, maintenance and testing of pedestal mounted ladder assemblies
- [10] 240-114967625, Eskom's Operating Regulations for High Voltage Systems

2.2.2 Informative

None

2.3 Definitions

2.3.1 General

All definitions in DST 34-1148 are applicable.

2.3.2 Disclosure classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 Abbreviations

All abbreviations in DST 34-1148 are applicable.

2.5 Roles and responsibilities

Not applicable to this revision.

2.6 Process for monitoring

Not applicable to this revision.

2.7 Related/supporting documents

Not applicable to this revision.

3. Requirements

3.1 Responsibilities

3.1.1 Zone Manager

- a) The Field Service Manager shall ensure that the requirements of this standard is enforced.
- b) The Field Service Manager shall appoint a competent person to evaluate all live work contractors.

3.1.2 Live work Senior Supervisor and OTS

- a) Schedule a pre evaluation meeting with the contractor to define and explain requirements.
- b) Do a technical evaluation on the contractor prior to any contacts being assigned.

3.1.3 Live work contractor employer (16.1)

a) Attend the pre-evaluation meeting.

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- b) Attend all evaluations.
- c) All employers shall appoint a person in the company that has the competence to do task observation on all teams.
- d) The employer shall ensure that at least 3 task observations are performed annually on every live worker in his employment.
- e) The employer shall ensure that all authorisations are maintained.
- f) .The employer shall ensure that all log books are maintained.
- g) The employer shall ensure that corrective action is taken on all non-conformances identified.
- h) The employer shall on request of Eskom provide work position of live work teams.
- i) The employer shall on request of Eskom produce any and all documentation of live workers.
- j) The employer shall ensure that no unauthorised labourers are actively involved in any part of the task while live work is being performed.
- k) The employer shall ensure that the original documentation and a copy of all log books and relevant evidence is provided to Eskom prior to evaluation.

Note: The copy of documentation provided to Eskom shall remain in Eskom's custody for auditing purposes.

4. Evaluation

| Element | | Remarks |
|--|-------------------|---------|
| Aerial devices (DST 34-657) | Registration no : | |
| Mechanical test | Date: Tested by : | |
| Electrical Test Boom, Basket, Liner | Date: Tested by : | |
| Max height | | |
| Acoustic test | | |
| Functional test | | |
| Elect. Interlock system | | |
| Emergency procedure display | | |
| Voltage rating displayed | | |
| SWL | | |
| Foot plate & earth spike | | |
| Type of vehicle | | |
| Crane | Registration no : | |
| Mechanical test | Date: Tested by : | |
| SWL & punch marks on hook | | |
| Safety latch | | |
| Foot plate & earth spike | | |
| SWL displayed | | |
| | | |

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| Working under live lines sticker | | | | | |
|---|-------------|----------|-------------|-------------|---------|
| Type of vehicle | | | | | |
| PML (SCSASAAZ6) | No 1 | No 2 | No 3 | No 4 | Remarks |
| Mechanical test | | | | | |
| Electrical Test | | | | | |
| Foot plate & earth spike | | | | | |
| Voltage rating displayed | | | | | |
| Functionality test (burst valve lock?) | | | | | |
| Out Riggers | | | | | |
| Live work Ladders (DST0051) | N 0 1 | N o 2 | N o 3 | N 0 4 | Remarks |
| Mechanical test | | | | | |
| Electrical Test | | | | | |
| Voltage rating displayed | | | | | |
| Functionality test | | | | | |
| SWL on ladder | | | | | |
| Live work platform's (SCSSCAAU6) | N 0 1 | N o 2 | N o 3 | N 0 4 | Remarks |
| Mechanical test | | | | | |
| Electrical Test | | | | | |
| No of platforms | | | | | |
| Marking of platform (as per 6.1 & 6.2) | | | | | |

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| Live work Equipment | Y/ N | |
|--|------|---|
| Modifications made to tools? | | Not allowed in terms of 5.6 in LW Standard need to be approved by DLWSC |
| Approved type | | |
| Tested | | |
| Condition | | |
| Logged Inspections (daily, 3 Monthly etc | | |
| Designated per team as per requirements (Annex) | | |
| Storage facilities / Transporting | | |
| Unique serial / Asset no's fixed on tools. | | |
| SWL Fixed on tools | | |
| Mechanical test | | |
| Numbers correspond with valid test certificates? | | |
| Lifting gear (Summary) | | |
| Adequate for all tasks | | |
| On inspection register | | |
| Inspected & Recorded 3 monthly | | |
| Annual test done by a accredited person | | |
| SWL permanently & correctly on equipment? | | |
| Unique asset number fixed on equipment? | | |
| Live work teams (Summary) | | |
| Training logbooks | | |
| Previous Live ork declarations (confirm quality) | | |
| No of gloving teams | | |
| No of Stick & bare hand teams | | |

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| Authorization to apply & remove earths (for Tie ins) | |
|---|--|
| On job observations on each team | |
| PPE per member | |
| Latest Live work Std's/ and Task Manuals & available to teams | |
| Regular Safety meetings with staff | |
| Local Live work meeting - Minutes | |
| Regional Live work meeting – (Proof of attendance) | |
| General remarks | |
| | |
| | |
| | |

5. Requirements for live-workers

| | | Team Leader | Team | Team | Team | Team | Remarks |
|--|------------------------------------|----------------|------|------|------|------|------------------------|
| Requisite | Evidence | | | | | | |
| Hard hat | Safety issue register/on job | | | | | | |
| Gloves | Safety issue register/on job | | | | | | |
| Safety shoes | Safety issue | | | | | | |
| | register/on job | | | | | | |
| Safety clothing | Safety issue register/on job | | | | | | |
| Conductive boots (for climbing any 132kv structure) 4.4.4 in LW Standard | Safety issue register/on job | | | | | | Stick & bare hand only |

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|---|------------------------|-----|-----|-----|-----|--------|---|
| FAS System | Issue Register | | | | | | |
| First Aid (L2) | Valid Certificate | | | | | | |
| ORHVS 1&10 | Valid Certificate | N/A | | | | | |
| ORHVS 1 to 10 | Valid Certificate | | N/A | N/A | N/A | N/A | |
| Basic Rigging | Valid Certificate | | N/A | N/A | N/A | N/A | |
| Log book completed/ Signed off | Live work Log book | | | | | | |
| Limited switching | Valid Authorization | | N/A | N/A | N/A | N/A | |
| Medical certificate | Valid Certificate | | | | | | |
| One year Eskom related line maintenance/building experience | Log book record | | | | | | |
| Fire fighting course | Valid Certificate | | | | | | |
| Task observations (3 per year from Eskom FSO / TSPO) | On job book | | | | | | |
| Aerial Devices / PML / Ladders / Platforms training | Valid Certificate | | | | | | |
| FAS training | Valid Certificate | | | | | | |
| Crane operating | Valid Certificate | | N/A | N/A | N/A | N/A | |
| Complete the person in charge module | Valid Certificate | | N/A | N/A | N/A | N/A | |
| 500 Hours active Live Work experience | Log book record | | N/A | N/A | N/A | N/A | |
| Live work Lifting gear inspection course | Valid Certificate | | N/A | N/A | N/A | N/A | FSO / S.S evaluate current course content |
| Previous Hand over's | Hand over book | | N/A | N/A | N/A | N/A | |

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6. Minimum Live Works Tools per team for Gloving Work of A PML

| Tool | Min required qty | Actual per team | Unique serial no? (permane nt marked) | Remarks |
|---------------------------------|---------------------|--------------------|---|---------|
| Ladder/PML/Aerial device | 1 | | | |
| Line hose Long | 2 | | | |
| Line hose Short | 2 | | | |
| FAS per person | 1 | | | |
| Post Insulator cover | 1 | | | |
| Sleeve's per PML | 2 Pairs | | | |
| Gloves per person | 2 Pairs | | | |
| Glove protectors per PML | 2 Pairs | | | |
| Little mule 1.5 Ton | 1 | | | |
| Spiral link stick (300mm) | 1 | | | |
| Snatch Pulley | 1 | | | |
| Pole cover | 1 | | | |
| Solid blanket | 2 | | | |
| Split blanket | 2 | | | |
| Pegs | 8 | | | |
| Nylon sling (2 Ton 450mm) | 1 | | | |
| Nylon sling (2 Ton 800mm) | 1 | | | |
| Nylon sling (2 Ton 1000mm) | 1 | | | |
| Come a long (2 Ton) | 2 | | | |
| Hand line (18m x 13mm) complete | 1 | | | |
| Groundsheet 2m x 2m | 1 | | | |
| Temporary conductor support | 3 | | | |
| Grip-all stick | 1 | | | |
| Wire holding stick | 1 | | | |

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|--------------------------------------|--------|--|-------|----------|--|
| Bypass jumper | 1 | | | | |
| FAS & bag per person | 1 | | | | |
| Hose bag | 1 | | | | |
| Silicon cloths | 2 | | | | |
| Blanket bag | 1 | | | | |
| Plastic bucket 25L for hand line | 1 | | | | |
| Sunglasses | 1 pair | | | | |
| Safety helmet with chin strap type | 1 | | | | |
| Leather gloves | 1 pair | | | | |
| Leather shoes (No steel cap) | 1 pair | | | | |
| Overall or Cotton shirt and trousers | 1 | | | | |
| PPE bag | 1 | | | | |
| Fire extinguisher (9kg) | 1 | | | | |
| First aid kit (Team size) | 1 | | | | |
| Wind speed meter | 1 | | | | |
| Stick Tester | 1 | | | | |
| General remarks | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

7. Minimum live-work tools per team for stick and bare hand work

| Tool | Min required | Actual per team | Unique serial no? (permanent marked) | Test Certificate (available and valid) | Lab | Test type | Recorded on inspection books | Rev to remarks |
|-----------------------------------|--------------|--------------------|---|---|-----|-----------|------------------------------|----------------|
| Ladder/PML/Aerial device/Scaffold | 1 | | | | | | | |
| Bare hand suit | 1 | | | | | | | |
| Conductive Boots | 1 pair | | | | | | | |
| Wire holding stick | 2 | | | | | | | |
| Grip all stick 4.5m | 2 | | | | | | | |

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|-------------------------------|---|--|----|------|----|-------|--|
| Universal stick 38x 3m | 3 | | | | | | |
| Universal stick 38 x 4.5m | 2 | | | | | | |
| Hand line complete | 1 | | | | | | |
| 2 x 3 or 3 x 4 rope block | 1 | | | | | | |
| Spiral link stick 38 x 1.2m | 1 | | | | | | |
| Snatch Pulley | 1 | | | | | | |
| Strainer sticks | 2 | | | | | | |
| Live yoke 2 Ton | 1 | | | | | | |
| Dead yoke 2 Ton | 1 | | | | | | |
| Trunnion ratchets | 2 | | | | | | |
| Chain sling | 1 | | | | | | |
| Nylon slings | 3 | | | | | | |
| Come a long | 2 | | | | | | |
| Universal Shepherd hook | 2 | | | | | | |
| Universal W-pin remover | 1 | | | | | | |
| Universal W-pin inserter | 1 | | | | | | |
| Universal rotary prong | 1 | | | | | | |
| Universal ball socket fork | 1 | | | | | | |
| Universal mirror | 1 | | | | | | |
| Universal cotter key replacer | 1 | | | | | | |
| Universal hammer | 1 | | | | | | |
| Universal steel brush | 1 | | | | | | |
| Static shunt | 1 | | | | | | |
| Cradle | 1 | | | | | | |
| Tower bracket | 1 | | | | | | |
| Bare hand ladder | 1 | | | | | | |
| Stick tester | 1 | | | | | | |
| Leakage monitor | 1 | | | | | | |
| (5.2.6 in LW Std) | | | | | | | |
| 63mm jinn pole | 1 | | | | | | |

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8. Conclusions

| Key to contractors ratings | | Remarks |
|--|-----------------|---------|
| √= Fully meets Requirements | any | |
| X= Do not Fully meet requirements | Sompany าame | |
| ? = Non Responsive N/A = Not Applicable | Comp name | |
| Aerial device's | | |
| PML's | | |
| Gloving tools condition | | |
| Gloving tools storage | | |
| Stick & bare hand tools condition | | |
| Stick & bare hand tools storage | | |
| Gloving tools test records for each tool | | |
| Lifting gear inspections | | |
| Lifting gear condition | | |
| No of staff per team (Gloving) | | |
| No of staff per team (Stick & bare hand) | | |
| Training logbooks | | |
| Training of staff | | |
| Authorisations | | |
| On jobs | | |
| PPE | | |
| Standards up to date? | | |
| Latest minutes of safety meeting as per OHS act | | |
| Latest minutes of Live work steering committee meeting | | |
| Latest minutes of Area live work meeting | | |
| | | |

Note: Items mark in grey is used only for indication of possible poor performance of overall quality of output.

9. Findings

| Non-compliance observed |
|-------------------------|
| |
| |
| |
| |

| Acceptance b | by Owner / | / Manager o | f company | as true | reflection | of non | conformances | in terms | of relevant |
|---------------|------------|-------------|-------------|---------|------------|--------|--------------|----------|-------------|
| Live work req | uirements/ | Standards a | as observed | by Live | work TSF | O/FS0 | D. | | |

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Capacity:
Date:
Signature:
10. Recommendations

Based on the Technical evaluation conducted, the contractor is recommended for contract work within the relevant Region, subject to limitations as defined.

11. Revision history

This revision cancels and replaces revision no 0 of document no. DST_34-373.

| Date | Rev | Compiler | Remarks |
|------------|-----|-----------|---|
| April 2020 | 1 | | New ISO format, numbering and document reference update |
| Nov 2010 | 1 | B van Wyk | Document review and on new template. |
| Nov 2007 | 0 | G Boshoff | Document approved |

12. Authorisation

This document has been seen and accepted by

Document Classification: Controlled Disclosure

| Name and surname | Designation |
|------------------|----------------------------|
| Amelia Mtshali | Senior Manager DBOUS |
| A Bekker | Manager DB&M |
| A Bekker | Maintenance SC Chairperson |

This standard shall apply throughout Eskom Holdings Limited, its divisions, subsidiaries and entities wherein Eskom has a controlling interest.

13. Development team

Document reviewed by Billie van Wyk

14. Acknowledgements

Not applicable.

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Annex A - 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: Implementation required due to statutory requirements and safety.

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: This document will ensure that the live work contractors meet the minimum requirements in terms of the live work standards and procedures as well as the OHSact sections which is currently relevant to live work.

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

Comment: None

2.4 When will new stock be available?

Comment: No impact

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

Comment: Not applicable

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: All current contractors need to be evaluated against this document, to ensure their compliance.

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

Comment: None

3) Implementation timeframe

3.1 Time period for implementation of requirements.

Comment: Immediate as it is based on the min requirements from OHSact and Live work standards.

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

Comment: N/A

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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: Not Applicable

- 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: 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: Document reviewed only

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

Comment: N/A

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: No

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

Comment: Not Applicable

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: N/A

6.2 State designations of personnel that will require training.

Comment: Not applicable

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.....

Impact assessment completed by: