

KPLC – Kenya Power Light Company



Kenya Power

Combi unit Training and Installation
25th-26th October 2016



Kenya Power

Day 1 – Combi unit Training Q&A

LIVE LINE TECHNOLOGY

PRESENTATION TO KENYA POWER & RURAL ELECTRIFICATION AUTHORITY ENGINEERS



25TH OCT 2016 @ LAICO REGENCY HOTEL, NAIROBI

Day 1 - Training Day

Attendance register

Henry Njenga - KPLC
Alice Muthami - KPLC
Rotich Benard - KPLC
Samson Oriwo - KPLC
Stephen Nguli - KPLC
Teresia Tangara - KPLC
Philip Otieno Okuthe - KPLC
Danson Muthane -KPLC
Robert K, Keter -KPLC
David Akendo - KPLC

John Nganga - KPLC
Eng. Joni Kondiek - REA
Semekiah Ongonga - REA
John Wachira – Live Line Engineering
Eng. Joseph Njoroge – Live Line Engineering
Terry Chepkama - KPLC
Daniel Okumu - KPLC
Vincent Odhiambo - KPLC
Eng. Ephantus Kamweru - REA
Eva Wambu – Live Line Engineering.
Kevin Risi – Live Line Technology

Day 1 – Combi unit Training Day



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Day 2 – Combi unit installation

26 October Runda, Evergreen Gardens Lane, Nairobi.

Day 2 – Combi unit installation

Runda , Evergreen, Gardens lane, Nairobi

Transformers need to have a 20 year lifespan and need both healthy fuses and surge arresters to achieve this lifespan



Fuse exposed to lightning

No surge arresters

No adequate bonding

No adequate earthing.

Day 2 – Combi unit installation



**26 October Runda,
Evergreen Gardens
Lane, Nairobi.**

Retrofit installation takes 2-3 hrs. It is an easy installation.

3 easy steps

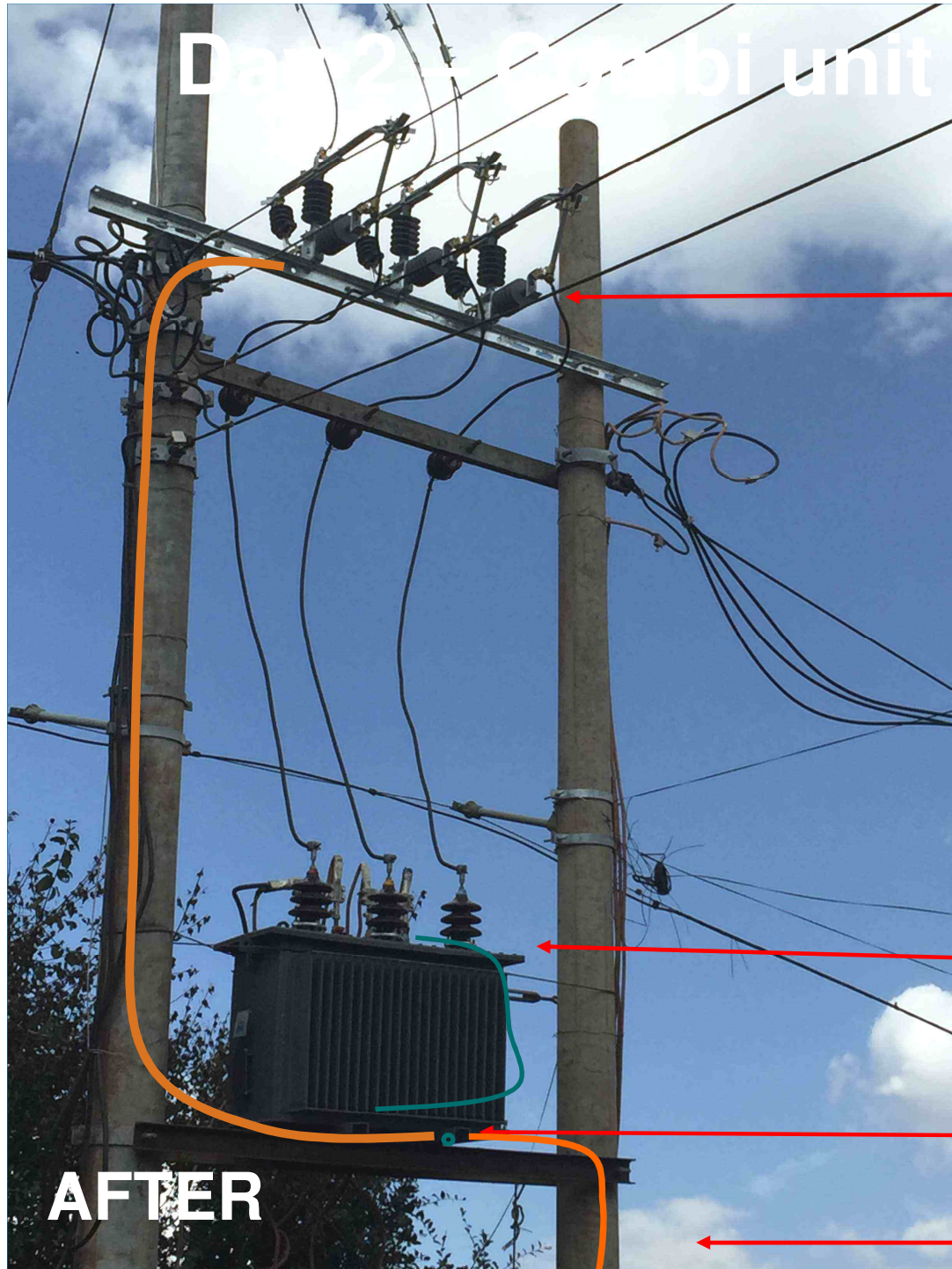
Step 1 – Isolate line
Safety 1st (earth)

Step 2 - Remove old links
& surge arresters.

Step 3 – Install Combi unit &
bond to transformer
tank.

INSTALLATION

Part 2 – Combi unit installation



Combi unit

Surge arrester protects the fuse & the transformer via a mechanical lock feature.

Parallel connection.

Must be 1m from transformer.

Neutral bushing is bonded to LV stud.

Transformer is bonded to Combi unit on HV tank stud.

Earthing is important.

AFTER

Day 2 – Combi unit installation

Advantages:

- The Combi unit will be installed on a transformer for 20 years & beyond the life of transformer.
- The surge arrester is replaced with a link stick from ground.
- Surge arrester alerts you when it is spent.
- Surge arrester replacement is a 3 min operation rather than 3 hours.(no outage required)
- Safer, Faster, Easier.
- The unit is a upgrade and can be used on any transformer.

AFTER

Day 2 – ~~Complete~~ Unit installation



Live Line Technology , South Africa & Live Line Engineering of Kenya, would like to thank all KPLC & REA engineers, technicians and linesman who attended the 2 day training and installation.

It is because of your kind effort that we had success.



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Asante Sana