250MVA Transformer

The transformer were tested during the period 23- January- 2019 to 6-February - 2019 on the transformer 250 MVA (220/34/34) KV S/N (013071801) for Elco Steel S/S

In	the	presence	of	the	following	committee:
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Eng.Ahmed Aly Elebrashy

EETC

Eng. Fekry Rafieg

Eng. Mohamed Mahmoud Salama

Eng. Hany Wahba Zakry

Eng.Ahmed Ramadan Elbayadi

Eng. Hossam Ahmed Abdel Fatah

Eng. Mohamed Saeed Elsaid

Elco Steel

Eng. Abdel Wahab Selim

SCG

Eng. Mohamed Kamal ElGewiny

Eng. Ahmed Mohamed Rashad

El-sewedy PSP

Eng.Ahmed Sorour Eng. Mohmoud Elmarghany

Eng.Islam Shawky

Eng.Ahmed Mohamed Hal

BV Egypt

Eng.Doaa Hegazy

El-sewedy Transformers

Eng. Mohamed Ghoniem

Eng.Mohamed Khalil

Eng. Mohamed El-bedeawy

Eng. Islam Nasr

Mr. Ahmed Elsayed

The bellow mentioned tests in contract that are all done with members from (EETC- PSP-Shaker-ELCO Steel and BV Egypt) in period 23- January- 2019 to 6-February - 2019

Routine, Type & Special Tests

- 1-Design and visual check.
- 2-Measurement of Voltage Turns Ratio and Check of Phase Displacement.
- 3-Measurement of Winding Resistance
- 4-Measurement of No Load Losses and No Load Current

ELSEWEDY

TRANSFORMERS

Testing:

Mohamed Khalil

Mohamed El-Bedeawy

Islam Nasr

Ahmed Elsayed

Approved: Doaa Hegazy

Mohamed Chonaim

2/2019

Shaker

ELCO Steel

Page 1 of 2



5-	Measurement of Harmonic				
6-	Measurement of short-circuit Impedance And Load Losses				
7-	On Load Tap Changer and all functional (Elec&Mech) test.(attached)				
8-	Marshaling cabinet and all functional (Elec&Mech) test. (attached)				
9-	Fans Consumption power measurement.				
10-	Measurement of Zero Sequence Impedance.				
11-	Applied voltage test (AV)				
12-	Oil breakdown voltage				
13-	Induced voltage test with partial discharge measurement (IVPD)				
14-	Measurement of Insulation Power Factor Tan δ And Capacitance of Winding				
15-	Measurement of Insulation Power Factor Tan δ And Capacitance of bushing				
16-	Measurement of Insulation Resistance				
17-	Measurements of CT's turns ratio & Resistance				
18-	Lighting Impulse Voltage Withstand Test with chopped wave.				
19-	Switching Impulse Test				
20-	Temp. Rise Test				
21-	Measurement of Acoustic Sound Level				
22-	Sweep Frequency Response (attached)				
23-	Dissolved Gas Analysis (attached)				
24-	Pressure tank test at 0.3 Bar (attached)				

Test done without members from (EETC- PSP-Shaker-ELCO Steel and BV Egypt Eng. Ahmed Hal)

1- Vacuum deflection test on liquid immersed transformer. (certificate attached)

Tests haven't been done on transformer

1- Short circuit test

Similarity calculation has been submitted, approved and closed as per M.O.M date 26/12/2018 with (EETC - SCG - Elsewedy) as attached, for reference.

2- Transient voltage

Same point was closed with EETC as on transformer 175 MVA on 21/5/2018.

Tan Delta test comment

The transformer passed tan delta test and the value given in grantee is for oil not for transformer

Third party approval

All required documents related to third party has been sent to EETC.

All comments during inspection will be covered at site (attached list)

All required tests were performed on the transformer ELSEWEDY

RANSFORMERS

Testing: Mohamed Khalil

Mohamed El-Bedeawy

Islam Nasr

Ahmed Elsayed

Approved: Doaa Hegazy

Mohamed Ghonaim

Shaker

ELCO Steel

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Page 2 of 2