# STATION SERVICE TRANSFORMER
(13.8 kV and below)



## TEST DATA

***Test Data No.*** _____
Station _____
Equipment ID _____
Date of Test _____
Make _____
Serial No _____
Tap Changer Type _____

MVA _____
kV HV _____ Y [ ] Δ [ ]
LV _____ Y [ ] Δ [ ]

Winding Connection _____
% Impedance _____
Year Manufactured _____

**I. TRANSFORMER TURNS RATIO TEST**

| HV | | LV | | Comp Ratio | 1U1V/ 2u2n | %E | 1V1W/ 2v2n | %E | 1W1U/ 2w2n | %E | Rating (S, P, C) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tap | Volts | Tap | Volts | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**Standards Used:** _____

**Remarks:** _____

**II. INSULATION RESISTANCE TEST**

| PARTS MEASURED | TEST kV | MEGOHMS | | MΩ/KV | POLARIZATION INDEX | RATING (S, P, C) |
|---|---|---|---|---|---|---|
| | | 1 MIN | 10 MIN | | | |
| HV-Case | | | | | | |
| HV-LV | | | | | | |
| LV-Case | | | | | | |

**Standards Used:** _____

**Remarks:** _____

**III. WINDING RESISTANCE TEST**

| WINDING | TAP | WINDING MEASURED | RESISTANCE (mΩ) corrected at 75°C | | RATING (S, P, C) |
|---|---|---|---|---|---|
| HV | Highest | | | mΩ | |
| | | | | mΩ | |
| | | | | mΩ | |
| HV | N | | | mΩ | |
| | | | | mΩ | |
| | | | | mΩ | |
| HV | Lowest | | | mΩ | |
| | | | | mΩ | |
| | | | | mΩ | |
| TV | | | | mΩ | |
| | | | | mΩ | |
| | | | | mΩ | |

**Standards Used:** _____

**Remarks:** _____

# STATION SERVICE TRANSFORMER TEST DATA



**IV. OIL DIELECTRIC BREAKDOWN VOLTAGE, ASTM D1816**

| SOURCE OF SAMPLE | TEST NUMBER | | | | | AVERAGE (X) | TEMP $^{O}C$ | RATING (S, P, C) |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | | | |
| Main Tank | | | | | | | | |
| LTC | | | | | | | | |

**Standards Used:** ----------

**Remarks:** ----------

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**Overall Remarks:** ----------

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***Tested by :***

***Concurred by :***

Contractor - Test Engineer

Owner's Representative

**TEST INSTRUMENTS:**

*(Eqpt.ID/Make/Model/SN/ Date of last calibration)* ----------

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***Legend:***

*S - Satisfactory*

*P - Poor*

*C - Critical*