Voltage Tester, 120 to 600 V, “Wiggy”

1. Scope

This standard covers the requirements for a spring-loaded, solenoid-style voltage tester, also known as a “Wiggy”.

This standard applies to Seattle City Light (SCL) stock number 765850.

2. Application

The “Wiggy” is used to detect the simple presence or absence of voltage prior to working on a circuit.

This device is used by Streetlight crews who consider them more reliable in wet conditions.

Operation of this device for 10 seconds at 600 V requires five minutes off for cooling before reuse.

The “Wiggy” was invented in 1918 by George P. Wigginton.

See SCL 7659.35 for a modern digital voltage tester.

3. Requirements

Voltage testers shall include the following:

- Three forms of ac/dc voltage indication: light, sound, and vibration
- Battery-free operation
- Polarity indicator, DC
- Easy-to-read dual voltage indicator (neon lamp and arm)
- Extra heavy-duty, replaceable test leads
- Fully insulated
- AC and DC voltage testing capability:
  - AC: 120, 240, 480, 600
  - DC: 120, 240, 600
- In-line prod mount case for testing in tight places
- Low input impedance (4,000 ohms, nominal) to help identify circuits with loose or marginal connections
- Safety rating for overvoltage: CAT III, AC/DC per UL 61010-1

4. Packaging

Product shall be individually packaged with their accessories and marked with the following information:

- Manufacturer name
- Product description
- Seattle City Light stock number

Shipping containers shall be legibly marked with:

- Manufacturer name
- Seattle City Light purchase order number

5. Issuance

Stock Unit: EA

6. Approved Manufacturer

Manufacturer	Catalog No.
Knopp, Inc	14460

7. References

UL 61010-1; Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements, 2012-05-11

8. References

SCL Material Standard 7659.35; Continuity and Voltage Testers

9. Sources

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