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UL 2876

**Outline of Investigation for Remote Racking Devices for Switchgear and
Controlgear**

Issue Number 1

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Summary of Topics

This is the First Issue of UL 2876, Outline of Investigation for Remote Racking Devices for Switchgear and Controlgear, covers requirements for equipment intended to provide a method to remotely operate (rack) a withdrawable element, such as a circuit breaker or fused contactor installed in switchgear or controlgear.

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INTRODUCTION

1 Scope

1.1 These requirements cover equipment intended to mechanically move (rack) a withdrawable element into or out of the connected position, while allowing the operator to stand a distance from the equipment. Typical withdrawable elements include circuit breakers in metal-clad switchgear or fused contactor assemblies in controlgear.

1.2 The requirements do not cover racking mechanisms that are installed within the switchgear or controlgear assemblies, or auxiliary devices used to signal internal racking mechanisms to operate.

1.3 These requirements cover cord-connected or battery powered portable equipment with a supply voltage rating of 600 V or less.

1.4 These requirements cover equipment intended for use in ordinary locations in accordance with the National Electrical Code, NFPA 70.

2 Components

2.1 A component of a product covered by this Outline shall comply with the requirements for that component and shall be used in accordance with its recognized rating and other limitations of use. See Appendix A for a list of standards covering components typically used in the products covered by this outline. A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this outline, or
- b) Is superseded by a requirement in this outline.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

4 Undated References

4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

5 Glossary

5.1 The definitions in the Standard for Industrial Control Equipment, UL 508, are applicable.

CONSTRUCTION

6 General

6.1 Equipment as covered by this outline shall:

- a) Be so constructed as to provide for compliance with the rules for installation and use of such equipment as given in the National Electrical Code, NFPA 70; and
- b) Employ materials that are acceptable for the particular use.

6.2 Remote racking devices shall be provided with all the necessary adapters, special tools, or fittings required to properly interface with each withdrawable element the remote racking device is intended to operate.

7 Enclosures

7.1 Enclosures of electrical equipment shall comply with the requirements of the Standard for Enclosures for Electrical Equipment, Non-Environmental Conditions, UL 50.

7.2 Enclosures marked with environmental Type designations shall comply with the requirements of the Standard for Enclosures for Electrical Equipment, Environmental Conditions, UL 50E.

8 Grounding and Bonding

8.1 Grounding and bonding means shall comply with the applicable requirements in the Standard for Industrial Control Equipment, UL 508.