UL 3223

Outline of Investigation for Data Center Certification

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Summary of Topics

This is the first issue of the Outline of Investigation for Data Center Certification, UL 3223. This Outline of Investigation provides the details for initial inspection and on-going regular periodic inspections of information technology equipment (ITE) rooms / areas (also known as data centers).

Inspections of new, remodeled, and expanded data centers are carried out in accordance with this outline and referenced regulations. Existing data center installations, the details for the equipment and installations requirements should be referenced to the codes and standards applied at the date of the installation.

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1 Scope

1.1 This Outline of Investigation intends to address factors directly related to the inspection of information technology equipment facilities, rooms, and areas (also known as data centers).

1.2 An initial inspection for a newly opened data center is intended to include the review of the construction plans, the commissioning reports, the building occupancy permit, a site visit to witness the commissioning of equipment, and a site visit to review the building design and equipment installation to confirm compliance with building design documents.

1.3 An inspection of an existing data center for certification and an inspection due to modification of the certification conditions is intended to include the review of the construction plans, the commissioning reports, the building occupancy permit, and a site visit to review the building design and equipment installation to confirm compliance with building design documents. A sample inspection of equipment will be conducted on a limited amount of system equipment to ensure installation reporting and functionality.

1.4 A data center renewing inspection is intended to include a review of construction plans, any critical equipment maintenance records and any modification that would impact the certification conditions.

1.5 The inspection of a data center, based on these requirements, does not include:

a) fundamental installation and inspection requirements for electrical, mechanical, life safety, or security equipment installations;

b) the verification of electrical equipment;

c) data center employee personnel qualifications;

d) remedial measures and equipment alterations;

e) building structural designs or considerations; and

f) installation and maintenance of non-critical equipment.

2 References

2.1 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 that has been adopted by the local code authority were the data center in located.

2.2 Referenced codes and standards:

ANSI/UL 681
Standard for Installation and Classification of Burglar and Holdup Alarm Systems

ANSI/UL 1449
Standard for Surge Protection Devices

ANSI/UL 60950-1
Standard for Information Technology Equipment - Safety - Part 1: General Requirements

ANSI/UL 62368-1
Audio/Video, Information, and Communication Technology Equipment

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