TECHNICAL SPECIFICATION

ISO/IEC TS 22237-30

First edition
2022-03

Information technology — Data centre facilities and infrastructures —

Part 30: Earthquake risk and impact analysis

Reference number
ISO/IEC TS 22237-30:2022(E)

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Published in Switzerland

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Foreword

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 39, *Sustainability, IT and data centres*.

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Introduction

Parts 1, 3, 4 and 5 of the ISO/IEC 22237 series specify requirements and recommendations for the design of data centres to meet a given Availability Class. Parts 2 and 6 of the ISO/IEC 22237 series specify requirements and recommendations for the building construction and security systems for data centres.

Determination of the risk and scale of seismic activity should be included as part of the overall risk assessment approach found in ISO/IEC 22237-1. ISO/IEC TS 22237-2 requires a geographical risk analysis which includes seismic activity and relevant mitigation actions, but does not identify the specific actions to be applied. ISO/IEC TS 22237-6 addresses external environmental events but does not explicitly list earthquakes or seismic activity within that group of events (other than general vibration) or indicate the specific measures required.

Taking these points into consideration, this document provides requirements and recommendations for the type of risk assessment to be employed in the context of seismic activity and earthquakes in relation to data centres. It also describes design concepts that can be employed as mitigation actions within the construction, and other design elements, of data centres.

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Part 30: Earthquake risk and impact analysis

1 Scope

This document specifies requirements and recommendations for the type of risk assessment to be employed concerning seismic activity and earthquakes in relation to data centres. In addition, it describes design concepts that can be employed as mitigation actions within the construction and other design elements of data centres.

2 Normative references

There are no normative references in this document.