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Design of nuclear power plants against s

Part 6: Post-seismic measures

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Introduction

The requirements in this document are based on the verification concept 'Inspection earthquake leve' given in ISO 4917-1

Up to the point where the value of the inspection level is not decisively exceeded; no earthquake-related deviations that could put specified normal operation conditions into question need to be expected in any areas designed against seismic events. Nevertheless, certain measures is performed to verify specified normal operation conditions before the inspection level is decisively exceeded; those measures are specified in this document.

Whenever the value of the inspection level is decisively exceeded, earthquake-related deviations that could put the specified normal operation condition into question cannot anymore be ruled out in the areas designed against seismic events. Therefore, if the inspection level is decisively exceeded the nuclear power plant is shut down and the measures be performed as specified in this document.

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Design of nuclear power plants against seismic events -

Part 6: Post-seismic measures

1 Scope

The document applies to nuclear power plants with water cooled reactors.

The present document does not apply to earthquakes stronger than the design basis earthquake.

This document specifies guidance on the actions to be taken in preparation for and following a earthquake at a nuclear power plant. This document is intended to be used as a guideline for decision making regarding continued operation, shutdown and restart of the nuclear power plant after an earthquake. It can also be used to assist operating organizations in the preparation and implementation of an overall pre- and post-earthquake action programme for dealing with situations in accordance with the level of seismic ground motion experienced at the site, and the seismic design level of the plant.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

<<u>std>ISO 4917-1, Design of nuclear power plants against seismic events- Part 1: Principles</u></std>

3 Terms and definitions

<u>SO/FDIS 4917-6</u>

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminologicalterminology databases for use in standardization at the following addresses:

IEC Electropedia: available at <u>https://www.electropedia.org/</u>

— — ISO Online browsing platform: available at https://www.iso.org/obp

IEC Electropedia: available at https://www.electropedia.org/

3.1

specified normal operation

operation for which the nuclear power plant is technically intended, designed and suited

Note 1-to-entry:-The specified normal operation comprises the operating conditions and operating procedures

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