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Guideline

Overhaul recommendations for turbo-generators

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Preface

This VGB Guideline "Overhaul recommendation for turbo-generators" was created by a project group of the VGB Working Committee "Electrical machines and systems". It continues the 2nd Edition of the VDEW Guideline "Recommendation for the overhaul intervals of turbo-generators" issued in the year 1991. It considers the currently available extended possibilities of measurements, data analysis and diagnostics for the determination of the status of generators, as well as the current maintenance strategies in electric power generating companies. In addition, references are provided to online monitoring for early-stage damage identification, since the inspection planning can be informed by this. Significant manufacturers' aspects were considered in the development of this guideline.

In this case the objective was to make an aid resource available to the operators of turbo-generators in order to assist in determining the time-related arrangement of overhauls and their respective scope.

In addition references are provided which support decisions to continue generator operation until reaching a planned shut-down, where known conditions are identified. In Chapter 4 the possible monitoring/diagnostics systems are dealt with, to reflect the present state of the art for turbo generators.

This guideline was generated according to best know-how, however it does not make any claim to completeness. It represents a recommendation and therefore cannot replace the expert knowledge of the users, as well as discussions between the experts. The following persons made significant contributions to the preparation of this guideline:

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The VGB business office is pleased to receive references at all times.

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VGB PowerTech e.V.

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