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**NATIONAL STANDARD OF THE
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**Technical requirements for grid-connected dispatching
operation of solar thermal electric plants**

太阳能光热发电站并网调度运行技术要求

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Electricity Council.

This document is under the jurisdiction of the National Technical Committee for Standardization of Solar Thermal Power Generation (SAC/TC 565).

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Solar thermal power station connected to the grid Technical requirements for dispatching

and operation

1 Scope

This document specifies the overall requirements for grid-connected dispatching and operation of solar thermal power stations, operation management, power generation plan, equipment maintenance, relay Technical requirements for protection and safety automatic devices, dispatching automation, dispatching communications and monitoring system security protection.

This document applies to the grid-connected dispatching and operation management of solar thermal power stations equipped with heat storage systems.

2 Normative references

GB/T 14285

GB/T 22239

GB/T 28448

GB/T 36572

GB 38755

GB/T 40103

GB/T 40104

GB/T 40595

IEC 60870

3 Terms and Definitions

The terms and definitions defined in GB/T 40104 apply to this document.

4 General Requirements

4.1 Before a solar thermal power station is connected to the grid for the first time, it should sign a solar thermal power station grid connection dispatch agreement and a power purchase and sales agreement with the power grid company.

The grid connection application form and detailed information shall be submitted 3 months before the first grid connection. The list of information is shown in Appendix A.

4.2 The operating personnel on duty who receive dispatching instructions at solar thermal power stations shall undergo job training and obtain the corresponding qualification certificates. Take up the post.

4.3 The operation and maintenance procedures of the solar thermal power station are complete, and the management system is complete. Before connecting to the grid, the solar thermal power station should The management system shall be submitted to the grid dispatching agency for record.

4.4 The excitation regulator, generator-transformer protection, phasor measurement device and other grid-related equipment of the synchronous generator of the solar thermal power station should have a type