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**Management specification for water conservation of cooling
towers**

冷却塔节水管理规范

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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 is proposed and coordinated by the National Technical Committee on Water Conservation Standardization (SAC/TC 442).

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Cooling tower water saving management specifications

1 Scope

This document specifies the general principles and operation management requirements for cooling tower water conservation.

This document applies to water-saving operation management of cooling towers.

2 Normative references

GB/T 7190.1

GB/T 7190.2

GB/T 12452

GB/T 15453

GB/T 31329

GB/T 50050

GB/T 50102

GB/T 50392

3 Terms and definitions

GB/T 7190.1, GB/T 7190.2, GB/T 31329, GB/T 50050, GB/T 50102, GB/T 50392 The following terms and definitions apply to this document.

3.1 Rated amount of makeup water

The amount of water that should be added to the circulating cooling water system is calculated based on the cooling tower operation monitoring parameters.

4 General

4.1 The cooling tower should be newly constructed or renovated in accordance with the requirements of GB/T 7190.1 and GB/T 7190.2, and the cooling tower performance should be tested after completion or renovation.

Test, if the test results do not meet the requirements, rectification should be carried out.

4.2 Cooling tower water replenishment should preferably use recycled water, regenerated water, rainwater, desalinated seawater and other unconventional water sources. For places with clear water replenishment requirements, except.

4.3 The cooling tower should be inspected on site regularly, and any problems such as splashing water, abnormal water drifting, leakage and overflow should be dealt with and recorded in a timely manner.

4.4 Measuring, monitoring and other instruments should be inspected, calibrated and maintained regularly.

4.5 Water treatment technologies and water treatment chemicals that are highly water-saving, environmentally friendly and safe to use should be selected.

4.6 In order to reduce the consumption of circulating cooling water, indirect cooling towers, dry-wet cooling towers, and condensing mist-eliminating water-saving cooling towers should be used first.

4.7 A sound cooling tower operation management system, water-saving reward system, and inspection and maintenance instructions for cooling tower equipment should be established.

Guide books and other regulations.