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ENERGY INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

NB/T 10130-2019

Technical specification for acceptance of environmental protection in initial impoundment for hydropower projects

水电工程蓄水环境保护验收技术规程

Issued on: June 4, 2019 **Implemented on: October 1, 2019**

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Table of Contents

Foreword

This document was issued on 4 June 2019 by the National Energy Administration of the PRC and takes effect on 1 October 2019.

It is a NB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 27.140, Chinese classification P59.

This specification was formulated by the drafting group in accordance with the requirements of the Notice of the National Energy Administration on Issuing the First Batch of Energy Industry Standard Formulation and Revision Plans for 2014 (Guoneng Keji [2014] No. 298), after extensive investigation and research, careful summarization of practical experience and wide solicitation of opinions.

The main technical contents of this specification are: basic requirements, acceptance preparation, acceptance investigation and site acceptance.

The National Energy Administration is in charge of the administration of this specification. China Renewable Energy Engineering Institute proposed it and is responsible for its routine management, and the energy industry standardization technical committee for hydropower planning, reservoir and environmental protection is responsible for the explanation of its specific technical contents.

Any comments or suggestions arising during implementation should be sent to China Renewable Energy Engineering Institute (address: No. 2 Liupukang North Street, Xicheng District, Beijing; postcode: 100120).

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Announcement of the National Energy Administration

Announcement No. 4 of 2019 of the National Energy Administration: the National Energy Administration approved 297 industry standards, including the Code for Electrical Design of Photovoltaic Power Projects, of which 105 are energy standards (NB), 168 are electric power standards (DL) and 24 are petrochemical standards (NB/SH), and hereby publishes them. Dated 4 June 2019.

In the annexed catalogue of industry standards, this specification is listed as serial No. 3: NB/T 10130-2019, Technical Specification for Acceptance of Environmental Protection in Initial Impoundment for Hydropower Projects, approved on 2019-06-04 and implemented from 2019-10-01, with no standard superseded and no adopted international standard.

Appendices and Supplementary Parts

Appendix A Acceptance Procedures of Environmental Protection in Initial Impoundment for Hydropower Projects: the work procedure required by clause 2.0.3.

Appendix B Responsibilities of Each Party for Environmental Protection Acceptance in Initial Impoundment for Hydropower Projects: the division of responsibilities referred to in clause 2.0.5.

Appendix C Contents of Investigation Report on Environmental Protection Acceptance in Initial Impoundment for Hydropower Projects: the report outline referred to in clause 2.0.6.

Appendix D Contents and Key Points of Environmental Protection Acceptance in Initial Impoundment for Hydropower Projects: referred to in clause 3.2.2.

Appendix E Documents List of Environmental Protection Acceptance in Initial Impoundment for Hydropower Projects: referred to in clause 3.3.2.

Appendix F Forms for Variations of Hydropower Projects: the table of project changes referred to in clause 4.2.4.

Appendix G Forms for Investigation of Environmental Sensitive Objects for Hydropower Projects: referred to in clause 4.3.2.

Appendix H Checklist of Environmental Protection Facilities in Initial Impoundment for Hydropower Projects.

Appendix J Opinions on Environmental Protection Acceptance in Initial Impoundment for Hydropower Projects.

Explanation of Wording in This Specification.

Addition: Explanation of Provisions.

1 Scope

NB/T 10130-2019 sets out the procedure for the environmental protection acceptance of a hydropower project before its reservoir is first filled. First impoundment is the moment a dam's environmental commitments become irreversible: once the water rises, habitats are flooded, the river downstream changes, and anything not built beforehand can no longer be put right. The specification therefore fixes a check, carried out before filling is authorised, that the environmental measures promised in the approved impact assessment are actually in place. It sets the general provisions and defined terms, then the conditions a project must meet before acceptance can be requested and the preparatory work required. The investigation of the project follows: the review of the environmental impact assessment and its approval, of the design changes since, and of the construction of the environmental protection works. The verification of environmental requirements is then carried out item by item - the multi-level intakes that control the temperature of released water, the facilities that guarantee the ecological flow downstream, fish passage and fish breeding and release stations, the transplanting of rare plants, the reservoir clearance, the treatment of solid and hazardous waste, soil and water conservation, and the monitoring systems. The site inspection, the acceptance meeting, the form of the acceptance opinion, and the appendices with the report formats complete the specification.

1.0.1 This specification is formulated with a view to standardizing the content, procedure and methods of environmental protection acceptance for hydropower projects at the impoundment stage and unifying the technical requirements.

1.0.2 This specification is applicable to environmental protection acceptance work for hydropower projects at the impoundment stage.

1.0.3 Environmental protection acceptance of hydropower projects at the impoundment stage shall be based on the relevant environmental protection laws and regulations, technical standards, the environmental impact assessment (EIA) documents and their approval opinions, the environmental protection design documents and the contract documents. It shall adhere to the principles of objectivity, impartiality and emphasis on key issues, make full use of the results of the acceptance of special environmental protection facilities, and properly coordinate its relationship with the environmental protection acceptance upon completion of the hydropower project.

1.0.4 The content of environmental protection acceptance at the impoundment stage shall include the implementation of the environmental protection facilities and measures required to be completed before impoundment, with emphasis on those related to impoundment, such as stratified water intake facilities, ecological flow release facilities, fish passage