

HJ

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Technical guidelines for environmental impact assessment - Uranium mining and milling decommissioning

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Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Environmental Impact Assessment Law of the People's Republic of China and the Ministry of Environmental Protection Law of the People's Republic of China on Prevention and Control of Radioactive Pollution, standardizing the environmental impact assessment of uranium mining and metallurgy decommissioning projects, and developing this standard quasi.

This standard specifies the general principles, contents, methods and technical

requirements for the environmental impact assessment of uranium mining and metallurgy decommissioning.

And the requirements for the preparation of environmental impact assessment documents.

This standard is the first release.

Appendix A and Appendix B of this standard are normative appendices.

This standard was formulated by the Department of Environmental Protection's Radiation Source Safety Supervision Department.

This standard was drafted. China Radiation Protection Research Institute.

This standard is approved by the Ministry of Ecology and Environment on January 21, 2019.

This standard has been implemented since April 1, 2019.

This standard is explained by the Ministry of Ecology and Environment.

Technical Guidelines for Environmental Impact Assessment, Decommissioning of Uranium Mining and Metallurgy

1 Scope of application

This standard specifies the general principles, contents, methods and technical requirements for the environmental impact assessment of uranium mining and metallurgy decommissioning.

And the requirements for the preparation of environmental impact assessment documents.

This standard applies to the environmental impact assessment of uranium mining and metallurgy decommissioning projects within the People's Republic of China, uranium ore the environmental impact assessment of the quality survey decommissioning project can be carried out with reference to this standard.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies.

In this standard.

GB 11215 Nuclear radiation environmental quality assessment general provisions GB 14586 Uranium mining and metallurgical facilities decommissioning environmental management technical regulations GB 15848 uranium mine geological exploration radiation protection and environmental protection regulations GB 18871 Basic standards for ionizing radiation protection and radiation source safety GB 23726 uranium mining and metallurgy

radiation environmental monitoring regulations GB 23727 Regulations on radiation protection and environmental protection for uranium mining and metallurgy HJ 2.1 General Outline of Technical Guidelines for Environmental Impact Assessment of Construction Projects HJ 2.2 Technical Guidelines for Environmental Impact Assessment Atmospheric Environment HJ 2.3 Environmental Impact Assessment Technical Guidelines Surface Water Environment HJ 2.4 Environmental Impact Assessment Technical Guidelines Acoustic Environment HJ 19 Environmental Impact Assessment Technical Guidelines Ecological Impact HJ 610 Environmental Impact Assessment Technical Guidelines Groundwater Environment HJ 964 Technical Guidelines for Environmental Impact Assessment Soil Environment (Trial) HJ/T 61 Radiation Environmental Monitoring Technical Specification

3 Terms and definitions

The following terms and definitions apply to this standard.

Uranium mining and milling Abbreviation for mining, beneficiation and smelting processes or treatment activities of uranium-containing radionuclide ores.

Uranium geological prospecting in order to find and identify uranium resources, use various exploration methods to understand the geological conditions of the underground and understand uranium mineralization.

Conditions and environment, comprehensive evaluation of uranium mineralization prospects, identification of favorable areas, identification of uranium ore belts, exploration of uranium mine scale, and clearing the process of containing uranium layer conditions and output capacity.

Decommissioning

After uranium mining and metallurgy facilities have ceased to serve after the end of their life or other reasons, they are fully considering protecting workers and the public.

Various activities carried out under the premise of health and safety and environmental protection.

Tailings pond

A special facility for storing ore and slime in the tailings slurry of the water and metallurgical plant, which is formed by the dam and has drainage (Hong) the structure is used to exclude tailings from the reservoir to clarify water and rainwater.

Dry tailings pond

A special place for stacking and storing dry tailings and slag discharged from the water and metallurgical plant, which is formed by the dam intercepting the ravine (valley) There are flood control facilities that drain rainstorms.

Restricted open or use restricted release or use Equipment,, buildings, and sites are restricted from being opened or used due to their potential radiological hazards.

This restriction usually prohibits certain activities (such as building a house, planting or harvesting specific food, destructive or damaged).

Sexual development and its behavior in the food chain, etc.) or stipulate a specific way (such as specifying that a certain material can only be located in a certain Agreement within the cycle or reuse.

Unrestricted open or use unrestricted release or use Equipment,, buildings and sites with sufficiently low levels of pollution or potential pollution are not subject to any radiological limits Open or use.

4.1 Basic principles

The environmental impact assessment work classification of the uranium mining and metallurgy decommissioning project shall be in accordance with the current national relevant classification requirements.

determine.

Explain the governance objectives after decommissioning, clarify the depth of decommissioning that each facility needs to achieve, and give decommissioning treatment Projects that are restricted or unrestricted to open or use, as well as specific restrictions on opening or using the project.

The format and content of the environmental impact report of the uranium mining and metallurgy decommissioning project are shown in Appendix A, the uranium geological exploration decommissioning project ring See Appendix B for the format and content of the Environmental Impact Report Form. Among them, the preparation unit and the staff of the establishment are in accordance with the construction project the uniform format of the impact assessment document is required to be implemented.

4.2 Environmental Impact Identification and Evaluation Factors Screening

Based on the environmental condition investigation and engineering analysis, combined with the decommissioning process of the uranium mining and metallurgy decommissioning project and the final state of decommissioning Features to identify environmental impacts.

According to the characteristics of the decommissioning project, the main characteristics of the environmental impact, combined with the environmental functional requirements of the region, environmental protection Objectives, evaluation criteria and environmental constraints, screening to determine the evaluation factors in the decommissioning process and in the final state of decommissioning.