

HJ

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Technical guidelines for environmental impact assessment - Radio and television (English Translation)

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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 Environmental Protection of Construction Projects Management Regulations, which regulate and guide the environmental impact assessment of radio and television construction projects, and formulate this standard.

This standard specifies the content, working procedures, methods and technical requirements of the environmental impact assessment of radio and television construction projects.

This standard is issued for the first time.

Appendix A and Appendix B of this standard are normative appendices, and Appendix C, Appendix D, and Appendix E are informative appendices.

This standard was formulated by the Department of Radiation Source Safety Supervision and the Department of Regulations and Standards of the Ministry of Ecology and Environment.

The main drafting organization of this standard. Center for Nuclear and Radiation Safety, Ministry of Ecology and Environment.

This standard was approved by the Ministry of Ecology and Environment on February 27, 2020.

This standard will be implemented on April 1, 2020.

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

Technical Guidelines for Environmental Impact Assessment Radio and Television

1 Scope of application

This standard specifies the basic principles, content, methods and technical requirements of the environmental impact assessment of radio and television construction projects.

This standard applies to the environmental impact assessment of radio and television construction projects.

This standard does not apply to the environmental impact assessment of satellite broadcasting and television construction projects.

2 Normative references

The content of this standard refers to the terms in the following documents. For undated reference documents, their valid versions are applicable to this standard.

GB 3096 Acoustic Environmental Quality Standard GB 8702 Electromagnetic environment control limit GB 12348 Environmental Noise Emission Standard at the Boundary of Industrial Enterprises HJ 2.1 General outline of technical guidelines for environmental impact assessment of construction projects HJ 2.3 Technical Guidelines for Environmental Impact Assessment Surface Water Environment HJ 2.4 Technical Guidelines for Environmental Impact Assessment Acoustic Environment HJ 19 Technical Guidelines for Environmental Impact Assessment Ecological Impact HJ/T 10.2 Radiation Environmental Protection Management Guidelines Electromagnetic Radiation Monitoring Instruments and Methods HJ/T 10.3 Management Guidelines for Radiation Environmental Protection Management Methods and Standards for Electromagnetic Radiation Environmental Impact Assessment GY 5054 Radio and TV Antenna Electromagnetic Radiation Protection Specification

3 Terms and definitions

The following terms and definitions apply to this standard.

Radio and television construction project A construction project that uses radio transmission equipment to broadcast sound and/or image programs, which is equipped with one or several transmitters, Antenna and its accessory equipment.

The broadcast television referred to in this standard can be divided into medium wave broadcast, short wave broadcast, FM broadcast and terrestrial television.

Electromagnetic radiation environment-sensitive target Objects that need to be focused on in the environmental impact assessment and monitoring of electromagnetic radiation. Including houses, schools, hospitals, office buildings, factories, etc.

The building where you live, work or study.

Near field region

The near field area is a field area next to the antenna aperture. In the near-field region, the phase and amplitude relationship between the electric field and the magnetic field is uncertain.

The near field area can be divided into reactance near field area and radiation near field area. In the reactive near-field region, most of the energy is exchanged between the source and the field without radiating Only a small part of the energy radiates outward. In the radiation near-field region, the vector distribution of the field is related to the distance from the antenna aperture.

Far field region

The far-field area is located outside the near-field area of the antenna and extends to the reach of radio waves. The characteristics are mainly plane waves, electric and magnetic fields They are in phase, and their amplitudes have a fixed ratio. The electric and magnetic fields are straight to each other in a plane perpendicular to the direction of propagation.

Angle relationship. In this area, the vector distribution of the field has nothing to do with the distance from the antenna aperture.

4.1 Working procedures of environmental impact assessment

Environmental impact assessment work is generally divided into three stages. investigation and analysis and work plan formulation stage; analysis and demonstration and prediction evaluation stage;

Environmental impact report (table) preparation stage. The environmental impact assessment work procedures of radio and television construction projects and the main

work content of each stage shall be Follow the relevant regulations of HJ 2.1.

4.2 Evaluation basis

4.2.1

The environmental impact assessment of radio and television construction projects shall be based on national and local ecological environment laws and regulations, national and local ecological environment Environmental regulations and normative documents, national and local ecological environment-related standards, industry norms, construction project materials and other related materials.

4.2.2

Ecological environmental laws and regulations, mainly including the ecological environment, environmental impact assessment, pollution prevention and control promulgated by the country, industry, and locality and other relevant laws and regulations.

4.2.3

Regulations and normative documents of the ecological environment department, mainly including the environmental policies, ecological environment planning, Ecological protection red line, environmental function zoning, ecological function zoning, etc.

4.2.4

Ecological environmental standards, mainly including technical guidelines for environmental impact assessment, environmental quality standards, environmental monitoring standards, national and local Pollutant discharge standards, etc.

4.2.5

Industry specifications mainly include technical specifications for the design and construction of radio and television construction projects and requirements related to environmental protection.

4.2.6

Construction project materials, mainly including construction project feasibility study report, design documents, environmental impact assessment task delegation, etc.

4.2.7

When the construction project is located in nature reserves, scenic spots, world cultural and natural heritage sites, special marine reserves, drinking water in environmentally sensitive areas such as water source protection areas and national parks, relevant laws, regulations and technical specifications shall be met, and relevant administrative directors shall be consulted.

The opinion of the administrative department on the environmental impact of the construction project.