

HJ

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Technical guidelines for environmental impact assessment - Satellite up-link earth station (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 protect the environment, regulate and guide the environmental impact assessment of satellite earth uplink station construction projects, and formulate this standard.

This standard specifies the format, content, methods and technical requirements of the environmental impact assessment of satellite earth uplink station 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.

Drafting organization of this standard. Nuclear and Radiation Safety Center of Ministry of Ecology and Environment.

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Technical Guidelines for Environmental Impact Assessment Satellite Earth Uplink Station

1 Scope of application

This standard specifies the format, content, methods and technical requirements of the environmental impact assessment of satellite earth uplink station construction projects.

This standard applies to the environmental impact assessment of satellite earth uplink station 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

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Satellite up-link earth station

A fixed satellite communications ground station with the ability to transmit radio signals up.

3.2 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.

3.3 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.

3.4 Far field region

The far-field area is located outside the near-field area of the antenna and extends to the area reachable by radio waves.

4.1 Working procedures of environmental impact assessment

The environmental impact assessment of satellite earth uplink station construction projects is generally divided into three stages. investigation and analysis and work plan formulation;

Analysis, demonstration and prediction evaluation stage; Environmental impact report (table) preparation stage. Environmental Impact Assessment of Satellite Earth Uplink Station Construction Project the procedures and the main work content of each stage shall be implemented in accordance with the provisions of HJ 2.1.

4.2 Evaluation basis

4.2.1

The environmental impact assessment of the satellite earth uplink station construction project shall be based on.

-Ecological environmental laws and regulations, mainly including ecological environmental protection, environmental impact assessment and pollution issued by the state, local and industry Prevention and other related laws and regulations.

- Regulations and normative documents of the ecological environment department, mainly including national and local environmental policies, ecological Ecological protection red line, environmental function zoning, ecological function zoning, etc.
- Ecological environmental standards, including technical guidelines for environmental impact assessment, environmental quality standards, environmental monitoring standards, national and local Pollutant discharge standards and other relevant standards.
- Industry specifications, including technical specifications and environmental protection requirements related to the site selection, design, and construction of satellite earth uplink station construction projects.
- Construction project information, mainly including construction project feasibility study report, related design documents, environmental impact assessment task delegation, etc.

4.2.2

When the construction project involves ecological protection red lines or nature reserves, scenic spots, world cultural and natural heritage sites, marine special in environmentally sensitive areas such as protection areas and drinking water source protection areas, relevant laws, regulations and technical specifications shall be met, and relevant supervisors shall be obtained the opinion of the department.

4.3 Evaluation content

4.3.1

The environmental impact assessment of the construction project of the satellite earth uplink station shall include the construction period and operation period of the construction project, and cover the construction and operation of the project.

The whole process of the line.

4.3.2

The environmental impact assessment during the construction period of the satellite earth uplink station construction project should include ecological environment, acoustic environment, surface water environment, solid the environmental impact of waste and other aspects; the environmental impact assessment during the operation period should include electromagnetic radiation environment, acoustic environment, surface water environment, solid Environmental impact of waste and other aspects. The topic setting and preparation requirements of the report are shown in Appendix A, and the specific format and requirements of the report form are shown in Appendix B.

4.3.3

During the environmental impact assessment of the satellite earth uplink station construction project, the project construction plan shall be evaluated in accordance with the