

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

HJ 808-2016

**Technical guidelines for environmental impact assessment
format and content of environmental impact reports for nuclear
power plants**

环境影响评价技术导则 核电厂环境影响报告书的格式和内容
(English Translation)

Issued on: June 24, 2016

Implemented on: October 1, 2016

Issued by: Ministry of Ecology and Environment

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Foreword

In order to implement the "Environmental Protection Law of the People's Republic of China", "the People's Republic of China Radioactive Pollution Prevention Law", "the Chinese people Republic of the Environmental Impact Assessment Law "and" Construction Project Environmental Protection Management Regulations ", combined with the specific situation of nuclear power development, regulate nuclear power Plant construction project environmental impact assessment work, the development of this standard.

This standard specifies the preparation requirements for the environmental impact report of the nuclear power plant construction project.

The appendix to this standard is a normative appendix.

This standard was first published in 1988. This is the first revision.

This standard is proposed by the Ministry of Environmental Protection Nuclear Safety Supervision Division.

This standard is organized by the Ministry of Environmental Protection Nuclear Safety Management Division, Science and Technology Standards Division.

The main drafting of this standard. the Ministry of Environmental Protection Nuclear and

Radiation Safety Center.

The Environmental Protection Department of this standard was approved on June 24, 2016.

This standard has been implemented since October 1, 2016.

This standard is explained by the Ministry of Environmental Protection.

Technical Guidance for Environmental Impact Assessment the format and content of the environmental impact report of the nuclear power plant

1 Scope of application

This standard specifies the preparation of the environmental impact report of the construction phase, construction stage and operation phase of the nuclear power plant construction project.

begging.

This standard applies to the construction of land-based fixed nuclear power plants (greater than 300MW electric power) in the People's Republic of China the purpose of environmental impact assessment work, other nuclear power plants can refer to the implementation.

2 Terms and definitions

The following terms and definitions apply to this standard.

2.1 Effluent effluents

Refers to the practice of the source to the environment emissions to meet the relevant standards, and access to regulatory approval of a very small amount of Radioactive material.

2.2 Environmental protection facilities

Means that the material that is produced in the production process and affects the environment meets the requirements of the recycling or emission requirements.

Equipment and equipment required, as well as the necessary effluent and environmental monitoring equipment.

2.3 Supporting projects (facilities) associated projects (facilities)

Refers to the construction of the main project supporting the construction of a variety of service facilities, such as into the factory road and emergency roads, environmental

experiments Room and frontier station, large wharf, power supply lines, reservoirs and so on.

2.4 Radiation environmental impact

Refers to the release of gas, liquid radioactive material from nuclear power plants, and the radiation caused by radioactive solid waste to the surrounding environment and the public
Shoots

2.5 Non-radiation environmental impact

Refers to the nuclear power plant on the surrounding environment and the public caused by the impact of radiation outside the impact, including land and population, Thermal emissions, non-radioactive toxic substances, cooling towers and hot feather emissions, noise, electromagnetic and other aspects of the impact.

3 Working phase

2 on the nuclear power plant construction project environmental impact assessment, in accordance with the "People's Republic of China Radioactive Pollution Prevention Law" rules the operating unit of the nuclear power plant shall, before applying for the approval of the site, the construction license and the approval of the first charge, Phase, construction phase and operational phase of the environmental impact report.

Standard technical requirements

4.1.1 Influencing factors

On the basis of environmental conditions survey and engineering analysis, combined with the characteristics of nuclear power plant construction and operation period of the environment Identification of influencing factors. Environmental factors should be identified from radiation, atmosphere, water, sound, soil, ecology, electromagnetic and other aspects.

4.1.2 Evaluation indicators

According to the environmental factors to identify the results, combined with the characteristics of the project to determine the nuclear power plant construction projects generated gas, liquid outflow and radioactive properties of solid waste and other pollutants pollution factors, combined with regional environmental characteristics, screening the environment to the evaluation index of the element.

4.2.1 Evaluation criteria for radiation environmental impact

Given the evaluation criteria for the impact of radiation environmental impact, such as the effective dose of the individual in the state of operation of the nuclear power plant, the

annual emission control value of the effluent, the annual emission control value and the emission concentration control value of the liquid effluent, and in the environmental medium of the nuclide concentration control values, as well as nuclear power plant accident conditions under the public radiation dose control values.

A number of sites should consider the relationship between the current project and the existing project, indicating that the public site of the whole site effective dose constraint value and annual emissions control value.

4.2.2 Evaluation criteria for non-radiological environmental impacts

Give the local environmental protection department approved (or confirmed) non-radiological environmental impact assessment criteria, such as the water quality of receiving water Standards (including temperature) and atmospheric, sound, electromagnetic and other environmental quality standards, production wastewater and domestic sewage discharge standards and Air pollutants, plant boundary noise emission standards.

4.3 Evaluation scope

Radiation environmental impact assessment of the scope of the general refers to the main airborne effluent discharge point or the reactor center point for the 3 center, radius of 80km within the area.

The scope of the non-radiological environmental impact assessment is based on the impact assessment of the environmental impact assessment technical guidelines determine.

4.4 Environmental protection measures

In accordance with the principle of advanced technology, applicable and effective, analysis of the proposed feasibility of the proposed technical feasibility, economic rationality, Long-term stable operation and compliance discharge reliability, to meet the environmental quality and total pollutant emissions control and concentration control feasible Sex.

4.5.1 Location phase

The site selection environmental impact report, mainly based on data research, field investigation or experimental means, access to nuclear power plant the area of the site and the likely area of the affected area, in particular with regard to the location of the site, the surrounding area Cloth, land use and resource profiles, water use and resource profiles, meteorology, hydrology, and topography and other environmental data, and assess the potential environmental impacts of nuclear power plants based on data from reference to nuclear power plants (or prototype reactors). This stage of evaluation the focus is from the perspective of protecting the environment, through the analysis and development of the