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

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**Technical guideline for assessment on environmental risk of
alien species**

(English Translation)

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Foreword

To implement the "People's Republic of China Environmental Protection Law" and "People's Republic of China Environmental Impact Assessment Law" to regulate Environmental risk assessment of alien species, protection of ecological environment to ensure the normal development of economic and social activities, the development of this standard quasi.

This standard specifies the principles, contents, procedures, methods and requirements for environmental risk assessment of alien species.

This standard is the first release.

This standard is developed by the Ministry of Environmental Protection Science, Technology organization.

This standard is mainly drafted by. Environmental Protection Department of the Nanjing Institute of Environmental Sciences.

This standard MEP September 9, 2011 for approval.

This standard since January 1, 2012 implementation.

The standard explanation by the Ministry of Environmental Protection.

Alien species Environmental Risk Assessment Guidelines

1 Scope

This standard specifies the principles, contents, procedures, methods and requirements for environmental risk assessment of alien species.

This standard applies to the planning and construction of the project could result in the

assessment of alien species cause ecological harm.

2 Terms and definitions

The following terms and definitions apply to this standard.

2.1 Alien species alien species

Occur outside their natural past or present distribution and diffusion potential range of species, subspecies or less free single Yuan, including all the species likely to survive partial reproduction, gametes, or propagules.

2.2 Invasive alien species invasive alien species

In the local natural or semi-natural ecosystems in the formation of self-regeneration, or it may have on the ecological environment, green Production or life or significant damage caused by alien species adversely affected.

2.3 Native species native species

It appears within its natural range in the past or present and potential diffusion range of species, subspecies or less free single yuan.

2.4 rely on artificial breeding of alien species alien species dependent on humans being for their survival We need to establish populations or spread of alien species through artificial breeding measures.

2.5 Risk assessment risk assessment

To require decisions based on science to uncertain events or the results of the process logic.

2.6 Introduction

Alien species transferred by human activities beyond its natural range and scope of past or present potential proliferation of regional the process of.

2.7 Intends to introduce intentional introduction

Because agricultural production, ecological environment renovation and restoration, landscaping, ornamental and release purposes, consciously introduced the process of alien species.

2.8 Unintentional introduction unintentional introduction

In trade, transport, tourism and other activities, with the flow of goods and people through the unintentional introduction of alien species Away.

2.9 Establishing a population establishment

Alien species in a new habitat successfully bred fertile offspring and have a process of continuous survival possibilities.

2.10 Diffusion spread

Alien species from one habitat to another habitat process.

2.11 Biodiversity

Living organisms from all sources of variability, these sources including terrestrial, marine and other aquatic ecosystems Ecological complexes and posed like this includes diversity within species, between species and of ecosystems.

2.12 Ecological harm ecological hazard

It refers to the adverse impact of invasive alien species on ecosystem composition, structure and function generated.

2.13 Prevention

Prevent the occurrence of invasive alien species risk events.

2.14 Monitoring

Invasive alien species populations and damage objects in successive surveys in order to grasp the changes in their ecological impact.

2.15 Control

Use measures of chemical, biological, artificial, mechanical, ecological alternative and comprehensive utilization of suppression, containment or eradication of the exotic Invasive species populations.

3.1 Assessment of the content

Assess whether the implementation of planning and construction projects may cause ecological harm caused by alien species, alien species from the environment safe the whole point of view to assess the feasibility of planning and construction project implementation.

3.2 Basic Principles

3.2.1

The precautionary principle in the absence of sufficient scientific evidence to prove that the proposed introduction of alien species without risk, it should be assumed that alien species may have risk. Intentional introduction of alien species, even if it can not prove the existence of the risk, they should first test after the promotion, and gradually expand Scale use.

3.2.2 Gradual assessment principles

We should follow the steps risk identification, risk assessment and risk management, as the case gradually carry out the environmental risk assessment estimate.

3.2.3 Basic principles and requirements for specialized methods of combining

Environmental risk assessment of alien species there are common rules, this standard to evaluate all groups to put forward the basic Demand; the same time, taking into account the differences between different groups of assessment methods, in addition to the basic requirements of the assessment methods of each group were done Special provisions.

3.3 Assess the scope

In principle, the planning and building projects based on comprehensive consideration of the planning and implementation of construction projects that may affect Fan Need special protection zone around the base and the surrounding nature reserve on reasonable determination of extended range.

3.4 Work program

Assessments are generally divided into three stages (Figure 1). the first phase of preparation before the assessment, collection letters assess the scope of the foundation Interest rates, intended to determine the alien species assessed, to decide whether to conduct a risk assessment; the second phase of the risk assessment, analysis cited Into established natural populations, the degree of diffusion of the possibility and ecological impact; the third phase concluded that an optimization program or alternatives.

1 alien species environmental risk assessment technology roadmap the need for a risk assessment Site survey data collection and analysis expert advice Determine the scope of the assessment Evaluate the start Analysis of the economic state of the environment, the introduction of way, bio Basic information science features, control and damages etc.

Determining the outer intends to assess to species list the first stage Assess Before ready the possibility of introducing the possibility of natural populations Diffusion possibility Ecological Risk second stage risk Assess End Assessment Planning and construction of