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

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**Standard system for grain engineering construction
(English Translation)**

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Foreword

To standardize the management of food engineering construction standards, further promote the standardization of grain engineering construction, according to the relevant national project construction management the laws and regulations, combined with the characteristics of food engineering construction, formulated the "Food Engineering Construction Standard System." the "Food Engineering Construction Standard System" is the basic organization for the development, revision and management of food engineering construction standards in the future.

in accordance with.

The "Food Engineering Construction Standard System" is managed and interpreted by the Circulation and Science and Technology Development Department of the State Grain Administration.

This standard system is responsible for drafting unit. International Trade Engineering Design Institute.

Participated in the drafting of this standard system. Zhengzhou Grain Science Research and Design Institute of National Grain Reserve Bureau, Zhengzhou Cereals, Oils and Foodstuffs Engineering Design Institute, National Grain Reserve Bureau Wuxi Food Science and Technology Design Institute, National Grain Reserve Bureau Wuhan Food Science and Technology Design Institute.

1 Overview

The grain construction standard is the basis for the consultation, planning, survey, design, construction, installation, acceptance, construction management and other activities of the grain project in the early stage.

According to the guidelines and guidelines, it is a summary of the experience of food engineering construction, representing the technical and management level of food engineering construction in a certain period of time. science, Reasonably establish a standard system for food engineering construction, ensure the quality and safety of grain project construction, and improve the comprehensive benefits of grain project construction it is of great significance.

1.1 Overview of food engineering technology development

The sustained, rapid and healthy development of China's national economy has greatly promoted the development of food engineering construction.

(1) The new technology of grain storage is fully promoted. From.1998 to 2000, the state invested in building a national grain reserve of 50 billion kilograms of storage capacity.

The library has laid a solid foundation for China's food security reserve and circulation. This batch of grain warehouses adopts new warehouse types such as flat warehouses, shallow round warehouses and vertical silos.

New technologies such as grain monitoring, mechanical ventilation, grain cooling, and circulation fumigation were promoted and applied; during the "Eleventh Five-Year Plan" period, green safe grain storage technology was to the development and application, such as. low-temperature grain storage technology, gas storage grain storage technology, pest control technology, etc.; in the construction of grain logistics projects, food "four the technology of "distributed" (bulk, bulk, unloading, and storage) will be promoted and applied.

(2) Rapid development of grain and oil processing and deep processing technology. In the past ten years, large-scale grain and oil processing technology and supporting equipment have been continuously improved and matured.

Mechatronics technology, computer process control technology and product quality monitoring technology have been popularized and developed.

(3) The application of grain circulation information technology has been applied. Developed food information classification and coding (standards) and developed food modern logistics information the platform has established a national food security early warning and forecasting system. Modern information technology is widely used in the field of grain storage and circulation.

1.2 Overview of the development of food engineering construction standards

In the 1950s and 1960s, the preparation of China's grain engineering construction standards was at a standstill; in the 1970s and 1980s, the grain line There has been some development in the standardization work of the industry, but there are only a few standards involved in the construction of food engineering. After.1990, China's grain engineering construction standards the quasi-preparation work has received attention. In particular, since 1998, in order to standardize the construction of grain depots and ensure the effective use of new technologies, new warehouse types and new equipment, the State Grain Bureau organized relevant units and experts to successively compile the "Standard for the Construction of Grain Warehouses", "Technical Regulations for Grain Storage" and "Design of Grain Warehouses" Standards and other standards, norms, procedures, these standards have played an important guiding role in regulating the design, construction, acceptance, construction management of grain storage.

1.3 Principles for the preparation of food engineering construction standards system

- (1) Scientific management that is conducive to the standardization of food engineering construction;
- (2) Conducive to meeting the development and promotion of new technologies;
- (3) Controlling the quality and safety of food construction;
- (4) The structure should be optimized, the quantity should be reasonable, the level should be clear, the classification should be clear, and the coordination should be coordinated to form a scientific and open organic whole.

1.4 Content, scope and classification of food engineering construction standard system

- (1) Standard system content the "Food Engineering Construction Standard System" consists of the following parts.

Part I. Overview;

Part II. Block diagram of the standard system;