

## Countermeasures and Suggestions to Strengthen Production Management of Electricity Enterprise Security

Fuwei Zhang<sup>a</sup>, Wenjing Wang<sup>b</sup>

School of North China Electric Power University, Beijing 102206, China

<sup>a</sup>zfw@ncepu.edu.cn, <sup>b</sup>807694235@qq.com

---

*Abstract: The power industry is the pillar industry of our country, to ensure the production of electric power enterprise security management is an important matter directly with the production and development of the national economy and people's lives closely related. Electricity production is a corporate security systems, complex work, because it involves a wider range, a part of any safety problems may lead to serious, serious accidents, causing serious economic losses and casualties, so improve the safety management level of power enterprises and important. I learned from the basic concepts of power production, content and significance, analyzes the current situation of electricity production enterprise security management, and how to strengthen the power companies to do safety management measures further elaborated. To production activities to our security and fast development of the electricity power industry play a reference.*

*Key words: electricity, safe production, management, meaning, measures*

---

### 1. INTRODUCTION

Power production is an eternal theme of electricity production. Not only Power safety and production be conducive to their own development, but also conducive to provide a stable electricity supply to the community. Before discussing electricity security production management, it is necessary to understand the concepts of power production safety. [1].

#### 1.1 The concept of electricity security production

Power production is to take a series of measures and safeguards activities in the production of electricity production, The key is to make electricity production in a certain order to avoid disaster in the power grid production process, destroying equipment and personal injury and ensure goals of grid security, as well as the health of workers in the electricity.

### **1.2 The range of electricity security production**

The range of electricity security production is wide, including power production safety, production infrastructure safety, as well as security of electricity production and management. Power production safety mainly refers that there is no security incidents In the process of power generation, transmission, substation, distribution, electricity, etc. The infrastructure construction of power production safety mainly refers to safe production in the construction of hydropower construction, delivery and construction of thermal power substation construction building construction. However, the scope of power production and operation covered more extensive. In addition, electricity production safety includes responsibility system, production inspection, supervision and training.

### **1.3 Significance of enhance the power security production**

With the rapid socio-economic development, demand for electricity of people's production and life continues to increase. This situation put forward higher requirements for power production safety. Electricity safety production has played a positive role for power companies to build a good and harmonious electricity environment. Power companies need to achieve the desired economic and social benefits under the premise of production safety. Electricity production safety is not only the cornerstone of the survival and development, but also relates to the health and safety of workers, So the fundamental purpose of production safety is to protect human life and health, and safeguard the legitimate rights and interests of shareholders and employees. In short, production safety is directly related to the enterprise's future and destiny, and it is corporate's healthy, sustainable and stable basis.

## **2. THE STATUS OF PRODUCTION IN ELECTRIC POWER ENTERPRISE SECURITY MANAGEMENT**

Under the impetus of the new economic environment, reform and modernization work in the entire power sector is also being carried out in full swing. With various power supply companies launched a new technical reform and upgrading, the safety factor of electricity production has been greatly improved in our country, and companies are advancing toward a more formal standard direction. However, management models and methods closely related to electricity production and safety have not been a corresponding increase, this led to reform appeared lame, in the power supply enterprise, which is not conducive to the further development of power production safety. Taking into account the entire industry, currently, Insufficient existed in power production safety management includes the following aspects:

### **2.1 lack of safety consciousness**

In Electricity production activities, Leadership and staff lack of responsibility for production safety consciousness, and their ability to protect themselves is not strong, which is more likely to result in more accidents. Particularly in the maintenance and construction work, No implementation of organizational and technical security measures for the site results that operating procedures and the security of the site cannot be guaranteed and cause more serious casualties.

### **2.2 Security measures are not implemented**

Electricity production enterprise security management measures cannot be specifically implemented. On site operation, there is no time to revise operating procedures and equipment defects cannot be processed in time, which results device in sick state apparatus in long-term, and the stability of the power grid is largely affected. They are unable to recognize the importance of security, whether it is the attitude or working style, they just stop at saying one state in security, but not implement in the implementation process

### **2.3 Security management is weak**

In most electric power companies, leaders focus on production, but contempt security, which will overlook the importance of security and lack necessary precautions. Security Management is not in place, when the accident occurred, they began to grasp the security management. However, they are scared to sinners in grasping safety management, because of the sensibilities, safety management only stay on the surface, thus resulting in many cases, and more frequent accidents.

### **2.4 Workers lack a strong sense of responsibility safety**

In the event of security incidents in the power business, a large part of the security is caused by weak sense of responsibility. This is mainly due to the Workers are not familiar with safety regulations "in the work process. In order to facilitate the moment they tend to simplify procedures in the implementation process, thus result in the execution of arbitrary. Moreover, the link between the various departments and communication is less, so there is a safety risk, which will bring a great threat to the safety in production.

### **3. COUNTERMEASURES AND SUGGESTIONS**

#### **3.1 Standardize Safety System Construction**

Production of electric power enterprise security management is a system work, the scope of which involves all departments and all staff. In actual operation, the Electric Power Enterprises have to actively implement the safety production responsibility system, each department leaders must personally grasp the security, to make the target safety management more clearly, and make concerted efforts to achieve enterprise-wide safety management pattern. Production safety management should adhere to the principle of tackling the problem, in terms of ideology emphasis on safety, and actively implement a variety of security prevention and response measures.

#### **3.2 Do Good equipment management and improve the health of the device**

In the Production of electric power enterprise security management, the health of the hardware is the key to ensure the safe operation of power. Therefore, in the production process, we first need to strengthen the operation, maintenance and management of equipment to improve the quality of maintenance equipment. Secondly, analyze and control the dangerous point also needs to be strengthened in the process of equipment management. Because the danger point device is not static, it may appear to be static or dynamic. There will be different variations under different conditions. So to control the danger point also should be dynamic based on personal, power grids and equipment three aspects.

#### **3.3 Improve the overall safety management quality**

To enhance the safety management quality of employees, workers need to to acquire the necessary safety knowledge and skills to achieve security and compliance with safety regulations at work. This requires enterprises not only conduct mandatory safety education for employees in their daily work, but also conduct regular safety knowledge competition, so that employees continuously accumulate experience and enhance their safety awareness at work.

#### **3.4 Formulate emergency treatment plan**

"Safety first, prevention first" is the basic principle electric power security production. Do advance preventive measures, once find the problem we immediately take measures to eliminate hidden dangers and prevent accidents from happening again. Despite the impact of external factors, the accident occurred is mainly because employees' safety awareness and skills varies, even some very low in practical work. Secondly, the condition of the equipment is

not the same, some risks has not been known. Thus electric power enterprises should set up the sense of risk and formulate emergency plans and fast processing mechanism.

#### **4. CONCLUSION**

Security production, throughout in electric power enterprises production process, is the lifeline of enterprise development, and security is also the theme of eternal power enterprises. Therefore, strengthen its production safety management is the key link to promote their healthy and stable development. Security Production Management in Power Enterprises is a long and persistent work. In the current development of the national economy, Electric Power Enterprises play an indispensable role, which determines the importance of security production of electric power companies, Electric Power Enterprises only continued security production to meet the demand for electricity supply. So electric power enterprise security production is the basis electric power enterprises to survive and develop, and strengthen security production management level Electric Power Enterprises is of great importance.

#### **REFERENCES**

- [1] Yu Honglei. Discuss Power Production Safety Management under The New Situation [J]. Power Technology, 2014 (1).
- [2] Wu Wenquan. Discussion Safety Production Management in Electric Power Enterprise. Economic Information, 2011.09.
- [3] Hao Mingfang, Fan Qinggang. Analysis of the Problems in the Management of Electrical Safety [J]. Shanxi Science and Technology, 2014, 29(1).
- [4] Fan Yesong. Countermeasures of Electric Power Production Enterprise Security Management[J]. Technology and Enterprise, 2014, 04:43.
- [5] Yang Lixun. Analysis and Countermeasures of Power Supply Enterprise Security Management[D]. North China Electric Power University, 2011
- [6] Wang Dawei, Dian Hong. Reflections on power production safety management in the New Situation[J]. Electronic production, 2014, 06:295.
- [7] Gu Chunzhen, Lei Yumei. Consideration on Power Production Safety Management under the New Situation [J]. China Science and Technology Investment, 2013, 30:100.