

Research on the Strategies of Strengthening the Safety Management in the Construction Engineering Management in the New Era

Qiong LI

Longxi County Housing Maintenance Fund Management Center, Longxi, Gansu, China

E-mail: renj1985@126.com

Keywords: New era, Construction engineering management, Safety management

Abstract: Focusing on safety management in construction engineering management plays an important role in ensuring construction safety, improving construction progress and ensuring construction engineering quality. In view of this, this paper expounds the significance of strengthening the safety management of construction engineering in the new era, the causes of construction engineering safety management accidents, and the strategies of strengthening the safety management of construction engineering in the new period, and gets the conclusion that the safety management strategies of construction engineering mainly include improving the safety awareness of construction enterprises, improving the management mechanism, and so on, hoping to improve the safety management level of construction enterprises.

1. Introduction

The important content of construction engineering management is safety management. Scientific safety management plays an important role in ensuring safe construction and improving construction efficiency. However, China's construction enterprises have serious cognitive biases of safety management. There is a phenomenon of attaching importance to construction progress but ignoring safety management, which leads to formalization of safety management. Even some construction enterprises use the way of safety officer affiliation to complete the construction engineering safety management. These not only have an adverse effect on the realization of efficient management of construction engineering, but also lead to the vicious cycle of construction engineering. In view of this, it is of great practical significance to study the safety management strategies in construction engineering management.

2. Significance of Strengthening Construction Engineering Safety Management in the New Era

Construction engineering is a complex, comprehensive process. Ensuring the safety of construction engineering not only can effectively improve the efficiency of construction engineering, but also can effectively ensure the safety of personnel, reduce the casualties caused by construction. China has formulated the *Construction Law of the People's Republic of China* for the safety management of construction projects, which explains the safety problems of construction projects, mainly including the safety management standards, management objectives, safety production and other aspects. It requires to ensure the safety of personnel operation, avoid the serious injury and death accidents caused by construction, and the common industrial injury of personnel should also be less than 0.2%. It also requires to improve the quality of safety management and ensure that the safety management work is implemented in all aspects of the construction project. But in the specific construction engineering safety management, construction enterprises blindly pursue the construction process, but ignore the construction safety management work, resulting in employees can't follow the requirements of the construction^[1]. It not only fails to guarantee the construction quality, but also causes construction safety problems. In view of this, strengthening the safety management in the construction engineering management and actively preventing and managing the

frequent safety accidents are of great significance to reduce the probability of safety accidents and improve the efficiency of construction engineering.

3. Causes of Safety Management Accidents in Construction Engineering Management

Safety management in construction engineering management plays an important role in ensuring construction safety and the smooth completion of construction. However, due to the low level of construction technology, lack of safety awareness, loopholes in construction safety management and substandard construction materials, construction safety problems occur frequently, which is extremely unfavorable to ensure construction quality and safe construction.

3.1 Lack of Safety Awareness of Construction Personnel

In the construction engineering management, safety management is the prerequisite to ensure the construction safety of personnel. The main content of safety management is construction safety management, including the training management of construction personnel's safety management consciousness, construction skill training management, construction safety management, etc. In the specific construction safety management, although the relevant construction safety management work is carried out, the construction personnel do not pay attention to the construction safety, and think that the construction safety accidents will not happen, so they do not pay attention to the safety protection work in the construction, such as working at height without wearing protective gloves, insulating shoes, goggles and other safety protection tools, which leads to the lack of protection barriers in the construction process, resulting in construction safety problems. Moreover, the construction personnel do not cooperate with the safety management work. In order to speed up the construction progress, they simplify the safety management procedures and ignore the relevant requirements of the safety management rules. For example, before the construction starts, the site investigation work is not done well, and the dangerous goods and obstacles on the site are not checked in advance. As a result, the construction can't be coordinated with the specific situation of the site, thus causing a lot of follow-up construction safety problems^[2].

3.2 Substandard Construction Materials

In the process of construction, improper use of building materials will also lead to safety accidents, so it is of great significance to ensure the qualification of building materials to reduce safety accidents. However, at present, the management and control of building materials in China's construction engineering management is not strict. In order to save investment costs and maximize the benefits of construction engineering, low-cost building materials are often used to replace some building materials without specific use categories, and the admission control of building materials is insufficient, which leads to the inflow of substandard building materials into construction. Moreover, the use of building materials has certain standards and requirements, and some building materials need to use the corresponding technology and have special operating conditions. However, because the construction personnel's technology is not up to standard, and they are not familiar with the use requirements of construction materials, the use of building materials does not meet the standards, and then lead to safety accidents.

3.3 Loopholes in the Safety Management of Construction Site

The safety management of construction site plays an important role in ensuring the construction safety, but from the current construction safety management regulations, the construction safety management regulations are empty and seriously deviate from the specific construction work, resulting in the construction personnel can't carry out the construction according to the corresponding construction safety management regulations. Therefore, the safety construction management is formalized, which can't play a substantial role. Moreover, the safety management organizations are not perfect, and many construction engineering safety management personnel are insufficient. In order to cope with the inspection, some construction engineering organizations only have a few nominal safety officers. These safety officers only appear when the inspection is good,

and it is difficult to effectively supervise the daily construction work, so the management of construction safety problems in daily construction is not in place, can't effectively avoid the construction risk. In addition, the construction personnel are the main body to ensure the construction safety management, which is of great significance to improve the efficiency of construction safety management. However, in the construction site safety management, there is a lack of education and guidance for the construction personnel, and there is no pre-construction training preparation, which leads to the construction randomness and constantly causes construction safety problems.

4. Strategies of Strengthening Safety Management in Construction Engineering Management in the New Era

In the construction engineering management, safety management is the premise to ensure the safety of construction, which should run through the whole project management and construction. According to the causes of the current construction safety accidents, we should do a good job in the construction safety management from the three aspects of construction enterprises, management mechanism and management personnel quality, so as to ensure the smooth completion of the construction project.

4.1 Improve the Safety Awareness of Construction Enterprises

While establishing a scientific concept of construction project management and pursuing the maximum benefit of construction project, it is also necessary to pay attention to the safety management of construction project. First, we should formulate corresponding safety management organizations according to the needs of construction project safety management, such as three or more safety officers for the construction project area of more than 50000 square meters, and one or more safety officers for the construction project area of less than 10000 square meters, so as to ensure the safe operation of construction and reduce casualties and construction safety incidents. Moreover, the construction project management personnel should change the management thinking, change the old safety management mode. The simple and rough management mode can only play a temporary management effect, but can't form an effective containment mechanism. Therefore, we should fundamentally solve the problem, improve the awareness of supervisors by strengthening the training of management personnel, pay attention to the training of construction personnel, formulate corresponding reward and punishment system to form an effective containment mechanism and ensure the implementation of safety management in construction enterprises^[3].

4.2 Improve the Management Mechanism and Enhance the Management and Control of Building Materials

Construction project management is a systematic management process, which covers a lot of content. It is necessary to refine the management content to ensure the effective implementation of the management mechanism. In view of the problem of unqualified building materials, we should formulate corresponding control measures to ensure the use of building materials from the purchase, admission and use of raw materials, and strengthen the technical training of construction personnel, so that the technical personnel can carry out construction according to the requirements of raw materials. Moreover, construction safety is the prerequisite to ensure safety management, so we should formulate a matching construction safety management mechanism, and specify the standards of construction procedures, so as to improve the construction efficiency and reduce the occurrence of construction safety problems.

4.3 Improve the Quality of Construction Personnel

The construction personnel are the main participants in the construction work. The construction technology and quality of the construction personnel play an important guiding role in ensuring the construction safety. In view of this, we should strengthen the safety education of the employees. On the one hand, we should strengthen the professional training of the construction technology of the

employees, so that the employees can meet the standard of safe construction. On the other hand, we should improve the safety construction awareness of the employees to make them realize the importance of safe construction, so as to urge employees to follow the construction regulations, to ensure safe construction^[4]. In addition, we should set up the corresponding reward and punishment system for construction personnel, regularly assess the training content, provide material rewards for those with excellent performance, and give play to the power of example, so as to stimulate other employees to constantly regulate their own behavior and complete the construction work with high quality, mobilize construction personnel's interest in safety management and provide favorable conditions for improving the management quality of construction personnel.

5. Conclusion

The safety management of construction engineering is of great significance to ensure the construction safety and reduce the occurrence of safety accidents. However, in the specific construction management, due to the lack of safety management consciousness of the construction personnel, substandard construction materials, and the loopholes in the construction safety management, the safety problems of construction engineering occur frequently. In view of this, we should improve the safety management consciousness of construction enterprises, perfect construction engineering safety management mechanism, and constantly improve the safety management and control consciousness of construction personnel, so as to form a scientific and systematic safety management mechanism, and provide favorable conditions for ensuring the completion of high-quality construction.

References

- [1] Zhu Ziling. Specific Strategies for Strengthening Safety Management in Construction Engineering Management in the New Era. *Jushe*, no.03, pp.164-165, 2021.
- [2] Guo Jia. Research on Specific Strategies of Strengthening Safety Management in Construction Project Management in the New Era. *Science and Technology Wind*, no.36, pp.119-120, 2020.
- [3] Wen Guiyu. Measures to Strengthen Safety Management in Construction Engineering Management in the New Era. *Building Materials and Decoration*, no.08, pp.216-217, 2020.
- [4] Wang Dehua. Comprehensive Discussion on Common Problems and Countermeasures in Construction Project Management. *Housing and Real Estate*, no.36, pp.124-178, 2020.