Improvement and Development Trend of Construction Technology of Building Water Supply and Drainage Engineering

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Abstract

With the rapid development of social economy, my country’s construction industry is constantly improving, showing a great development trend. In construction projects, water supply and drainage works are extremely important. The quality of water supply and drainage works can directly affect residents’ living experience. Therefore, it is necessary to pay attention to water supply and drainage engineering and strictly understand the actual situation of water supply and drainage engineering. The design of water supply and drainage projects in accordance with the prescribed standards will further improve the quality of water supply and drainage projects, thereby promoting the sound development of my country’s construction industry. This article will study and analyze the construction technology and development trend of building water supply and drainage engineering, and elaborate the improvement strategy of construction technology of building water supply and drainage engineering, hoping to provide help for the development of water supply and drainage engineering in our country.

Keywords

Building Water Supply and Drainage Engineering, Construction Technology, Improvement Strategy, Development Trend

1. Introduction

Nowadays, due to the rapid development of our country as a whole, the living standard of the people in society is being continuously improved, and there are higher requirements for the quality of water supply and drainage engineering. Therefore, it is necessary to strengthen the control and management of the construction of water supply and drainage engineering and improve the construction technology of water supply and drainage engineering, so as to guarantee the development of China’s construction water supply and drainage engineering. From the current point of view, because the influence of drainage engineering is too large, in the construction of building engineering should be combined with the characteristics of drainage engineering to fully consider the multiple factors that may cause impact, to ensure the quality of drainage engineering, so as to promote the good development of construction drainage engineering.
2. Common problems in the construction of water supply and drainage engineering

From the current point of view, although China’s construction industry is progressing, there are still many shortcomings in the construction of building water supply and drainage engineering, mainly including the lack of attention to the construction technology of building water supply and drainage engineering, the lack of a perfect construction plan, and the lack of sufficient supervision of building water supply and drainage engineering are problems that hinder the smooth implementation of building water supply and drainage engineering.

2.1. Insufficient attention to construction technology of building water supply and drainage engineering

Water supply and drainage engineering as an important part of construction engineering, but because most construction enterprises often pay attention to the construction progress of construction engineering when carrying out construction, and do not pay enough attention to the construction technology of construction water supply and drainage engineering, resulting in loopholes in construction engineering, causing a certain impact on the quality of construction engineering, leading to delays in the completion of construction engineering not in accordance with the specified deadline [1].

2.2. Lack of perfect construction plan

In the construction water supply and drainage project, the construction plan is very important, if a perfect construction plan is not formulated before the construction of the construction water supply and drainage project, it will significantly increase the cost of the construction water supply and drainage project, and the quality of the construction water supply and drainage project cannot be guaranteed, and it is very likely to plant safety hazards in the construction water supply and drainage project, thus bringing huge losses to the construction enterprises.

2.3. Not enough supervision

From the actual situation, it seems that when the construction project is carried out, the relevant departments will allocate supervisors to be responsible for the supervision of the construction project, but due to the large scale of the current construction project, the supervision work cannot be implemented into the work of the construction project, and due to the lack of professional ability of the supervisors, they cannot find and solve the problems existing in the construction project. This problem of insufficient supervision has a serious impact on the construction quality of construction water supply and drainage projects.

3. The improvement strategy of construction technology of water supply and drainage engineering

3.1. Improve the project supervision system

In order to make the construction of building water supply and drainage engineering can be constrained, it is necessary to improve the supervision system of building water supply and drainage engineering, so that the quality of building water supply and drainage engineering will not be affected by the lack of supervision work. In practical terms, perfecting the supervision system of construction water supply and drainage engineering can fully guarantee the quality of the project, but if the construction water supply and drainage engineering is not reasonably constrained, problems in many aspects will frequently occur and the construction technology will not present the proper effect [2]. Therefore, it is necessary to improve the supervision system according to the characteristics of each work of the construction water supply and drainage project to ensure that the perfect supervision system can play a better restraining effect on the construction water supply and drainage project, so as to ensure the quality of the construction water supply and drainage project.

3.2. Improve the overall quality of personnel

Construction water supply and drainage project in the construction, the professional level and comprehensive quality of technical personnel will be directly on the construction of the project children to be able to form an impact, if the professional level of technical personnel is not enough, it will be in the construction of water supply and drainage project to plant safety risks. Therefore, it is necessary to organize regular study and training of technical personnel, standardize the construction operation of technical personnel, and improve the professionalism of technical personnel, so as to fully guarantee the construction quality of construction water supply and drainage projects.
3.3. Scientific development of construction planning

When formulating construction planning for building water supply and drainage engineering, we should have a full understanding of the construction site, determine the construction sequence, and lay the foundation for the implementation of construction technology for building water supply and drainage engineering. When building water supply and drainage engineering is under construction, strict inspection is required. If the defects of the preliminary construction work are checked, the subsequent construction work needs to be delayed, and then the defects in the preliminary construction work are dealt with, and then the subsequent construction work is launched.

3.4. The development of water supply and drainage equipment commissioning trial run program

When testing the performance of the system, the commissioning and trial operation of the drainage equipment should be developed to avoid incorrect operation of the equipment and eliminate the occurrence of safety accidents in the construction of drainage projects. In addition, the development of commissioning and commissioning of water supply and drainage equipment can help to find the problems in the water supply and drainage equipment, so as to fully consider the multiple factors to ensure that the water supply and drainage equipment can play its own due effect [3].

3.5. Make full preparation for pipeline construction pre-burial

In the construction of water supply and drainage projects, the pipeline pre-buried construction has a large workload, and it is necessary to reasonably plan the pipeline pre-buried construction so that the pipeline pre-buried construction can show the proper effect. Because most of the pipes and lines in the underground and within the floor, need to fully understand the possible impact of external factors, completely eliminate the phenomenon of leakage of pipes and lines. In order to do a good job of pipeline pre-buried construction, the following four points need to be implemented. First, do a good job of technical delivery, organize relevant personnel to discuss the drawings, and develop a perfect construction technology plan with a full understanding of the drawings. Second, the civil construction team should cooperate closely with the installation team to ensure that there are no omissions when pouring concrete. Third, it is necessary to measure the wall column first, and after understanding the size of the wall column, determine the position of the pre-buried pipes and mark the pre-buried position on top of the template. Fourth, it is necessary to do a good job of sealing and fixing the pre-buried parts to avoid the flow of concrete into the pre-buried parts in the process of pouring.

4. The development trend of water supply and drainage engineering

From the current development situation, there is still room for further progress in piping materials, and hot melt plastic as the main material of current pipes and pipelines, compared with cast iron pipelines and carbon steel, hot melt plastic is more convenient and quicker to install, and easier to maintain at a later stage, usually no damage will occur, and it has better corrosion resistance. However, since the pipelines and pipes made of hot-melt plastic will expand when they are exposed to heat and contract when they are exposed to cold, the expansion and contraction of pipelines and pipes made of plastic need to be studied in the future, and then new pipelines and pipeline materials need to be developed [4-10]. In addition, in order to provide water that meets the required standards to the public, firefighting units and manufacturing enterprises, we need to strengthen the promotion of water system design and develop new technologies and products as soon as possible, so as to effectively reduce the cost of water treatment.

5. Conclusion

Therefore, it is necessary to further improve the quality of construction water supply and drainage engineering and construct water supply and drainage systems to fully guarantee the daily life of residents. Therefore, construction water supply and drainage engineering in the construction process should be strictly standardized on the operation of construction technology and fully understand the actual situation of construction projects in order to improve the construction of water supply and drainage engineering, so that the construction effect of construction water supply and drainage engineering can be further improved to ensure the quality of construction water supply and drainage engineering while promoting the good development of China’s construction water supply and drainage industry.

References


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