

# *Discussion on the Concept of Modular Accommodation*

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**Abstract:** Security for security of major events, the mainly reason that Modular accommodation guarantee is adopted in the process of security work for major events is to modularize the current various accommodation guarantee methods, and to reasonably select different numbers of accommodation guarantees in combination with the self-protection capability, security scale and local accommodation guarantee resources of the task unit. Various modules are combined scientifically to achieve a relatively optimized accommodation guarantee effect during the guarantee process. It is necessary to strengthen the collection and construction of various modules to improve the support capabilities of various modules.

## 1. Introduction

Since the time and location of various major events will be determined in advance, security units will receive tasks for a long time in advance, the preparation cycle for security work is relatively long, so each unit has sufficient time to make targeted security preparations. Therefore, before undertaking the security and accommodation guarantee work for major events, each unit must first conduct a thorough investigation of self-protection resources and master the quantity and quality of materials. Secondly conduct multiple batches and all-round on-site inspections on the security site, and fully observe the accommodation security resources of the security site and surroundings. Investigate available resources such as hotels, schools, large venues, open spaces, and unit residences that can be used for security within a certain range, and accurately calculate the security capacity and supporting facilities of various resources. By analyzing and judging the quantity, quality and guarantee effectiveness of various resources, different accommodation guarantee modules are established. Different accommodation guarantee modules must be independent of each other and can meet the requirements of independence according to the design standards and rules of this module. To meet the needs of safeguarding work, they can also link and cooperate with each other, share safeguarding resources when necessary, and expand and replace each other.

## 2. Main Structure of Modular Accommodation Guarantee

There are many types of accommodation guarantees that can be selected for major event security, mainly including tent guarantees, vehicle guarantees, school idle house guarantees, idle factory guarantees, hotel accommodation guarantees, and unit residence guarantees. Each method has its own

characteristics. By modularizing various security methods, five types of security modules, including tent security modules, large venue security modules, hotel security modules, school security modules, and unit residence security modules, are established. Way to complete the accommodation guarantee work for each unit.

## **2.1 Tent security module**

Tent security module mainly relies on tents, vehicles and prefabricated houses and other means for auxiliary guarantee. Water supply guarantee mainly relies on finding nearby water sources, storing them through water trucks, water purifiers, water storage tanks, and the like. It focus on self-protection. Power supply guarantee mainly relies on equipments such as generator cars, power station trailers, generators, etc. lay power lines in the tent area to provide electricity for living and work. Heating guarantee mainly relies on equipments such as heaters, heaters which are distributed according to demand standards. Bathing guarantee mainly relies on equipment such as shower units, shower cars, and shower tents, which are fully equipped according to the demand standards. Toilet guarantee mainly relies on the construction of simple toilets, which are constructed in sufficient quantities according to the guarantee requirements, and auxiliary guarantees are provided by toilet trailers.

## **2.2 Large venue security module**

The accommodation guarantee mainly relies on portable equipment such as air mattresses and folding beds. Water supply guarantee mainly relies on municipal water, which is supplemented by self-purchasing and water trucks. The power supply guarantee mainly relies on municipal electricity, which is assisted by generator cars and generators. Heating guarantee mainly relies on municipal heating, with auxiliary guarantees such as heaters and heaters. Bathing guarantee mainly relies on public facilities such as bathing rooms in large venues, and auxiliary guarantees with shower units and shower cars. Toilet guarantee mainly relies on large venues public toilets are supplemented by toilet trailers.

## **2.3 Hotel security module**

The accommodation guarantee mainly relies on the guest room facilities, and is supplemented by portable equipment such as air mattresses and folding beds; the water supply guarantee mainly relies on municipal water, which is supplemented by self-purchasing and water trucks; Vehicles, generators, etc. for auxiliary protection; Heating protection mainly relies on municipal heating, air-conditioning heating, and heating furnaces, heaters, etc. for auxiliary protection; bathing protection mainly relies on guest room facilities, with shower car for auxiliary protection; toilet protection mainly relies on guest rooms facilities to toilet trailers.

## **2.4 School security module**

The accommodation guarantee mainly relies on portable equipment such as air mattresses and folding beds; The water supply guarantee mainly relies on municipal water, which is supplemented by self-purchasing and water trucks; The power supply guarantee mainly relies on municipal electricity, which is assisted by generator cars and generators. Heating guarantee mainly relies on municipal heating, with auxiliary guarantees such as heaters and heaters; Bathing guarantee mainly relies on public facilities such as school bathing rooms, and auxiliary guarantees with shower units and shower cars; Toilet guarantee mainly relies on school public toilets, with toilet trailer for auxiliary

protection.

## **2.5 Unit residence security module**

The accommodation guarantee mainly relies on the accommodation facilities of the unit, and is supplemented by portable equipment such as air mattresses and folding beds; The water supply guarantee mainly relies on the water in the camp area, and the auxiliary guarantee is provided by self-purchasing and water trucks; The power supply guarantee mainly relies on the electricity consumption in the camp area, and the power generation vehicles, generators, etc. are used for auxiliary protection; Heating protection mainly relies on the existing heating means in the camp, with heaters, heaters, etc. for auxiliary protection; Bathing protection mainly relies on the existing facilities of the unit's residence, with shower vehicles for auxiliary protection; The Toilet guarantee mainly relies on the existing facilities of the unit's residence, and is supplemented by a toilet trailer.

## **3. Basic Functions of Modular Accommodation Guarantee**

### **3.1 Tent security module**

The tent security module is mainly equipped with self-protection equipment such as vehicle tents, fixed tents, and mobile prefabricated houses. Each unit will ensure temporary accommodation on its own, and prepare for the supply of water, electricity, toilets, quilts, water and electricity, bathing, and laundry. It is suitable for relatively remote security areas with less social impact. It has the characteristics of easy management, flexibility, and unified standards and is suitable for task areas with a large range of idle sites and relatively convenient water sources.

### **3.2 Large venue security module**

The large-scale venue security module mainly relies on indoor venues with large space such as sports venues, cultural venues, and idle factories near the mission area for accommodation security. The task unit needs to carry out necessary activities such as area division, accommodation renovation, route planning, disinfection and ventilation, and safety hazard investigation within the venue, and use the venue resources to ensure the accommodation needs of the task unit. It is suitable for relatively prosperous task areas such as urban areas, and has the characteristics of sufficient space, easy division, and convenient transformation.

### **3.3 Hotel security module**

The hotel guarantee module mainly uses the hotel resources around the mission area, such as public accommodation resources such as business hotels, star hotels, express hotels, and B&B apartments, to provide accommodation guarantee in the form of monetized rental. Each unit needs to select a hotel with better comprehensive conditions for security according to security requirements, and carry out appropriate maintenance and renovation of indoor facilities. It is suitable for task areas with relatively developed economy and has the characteristics of superior hardware conditions and sufficient living security, but it has high requirements for the scale and capacity of hotels.

### **3.4 School security module**

The security module is similar to the security of large venues. The main difference is that the living environment of the school is mainly provided by the residential security module, and the infrastructure is relatively suitable. It is also necessary to reasonably divide and transform the living

conditions to meet the needs. It is suitable for schools and the distance is relatively short near area.

### **3.5 Unit residence security module**

The unit residence guarantee module uses the unit residence around the security area to provide accommodation guarantee. It has the characteristics of strong safety, standard specifications, and complete supporting facilities. While ensuring that the accommodation requirements are met, it can also share resources such as food security and security defense with the residence unit, but it needs to be reasonably transformed and divided into areas. After the security work is completed, it is a requirement that to restore the original appearance, which is suitable for mission areas with surrounding units.

## **4. Countermeasures and Suggestions for Building Modular Accommodation Guarantee**

Firstly, is to establish an accommodation guarantee module with integrated functions. During the security period of major events, the construction standards of temporary accommodation sites determine the quality of security. Different types of modules have different hardware conditions and different applicable environments, but each module must have the ability to independently complete the security work and integrate the functions to be realized by the accommodation security. To establish a functional integrated security module, all security requirements must be met. Based on the module's own hardware conditions, basic security must be implemented. If individual facilities cannot meet the security requirements, or the security standards are not high, maintenance reconstruction, portable equipment support, temporary facility construction and other means to provide auxiliary support to ensure that all the accommodation needs of the task unit are met. Modular accommodation guarantee is an accommodation guarantee implemented through the selection and combination of modules, each of which must achieve the basic requirements of functional integration.

The second, is to establish a standard and standardized accommodation guarantee module. The security work of major events is often completed with the coordination of multiple forces, and a relatively unified modular construction standard should be established between each force. The accommodation guarantee should not only consider the accommodation problem, but also consider the establishment of various warehouses and the basic guarantee of supporting facilities. There should not be the idea of “enough is enough”, but it must be satisfied with the entire process of guaranteeing the entire security work. The standard design of each miniaturized accommodation security module can ensure that it can meet the needs of various levels, aspects, and types. First, the arrangement and carrying must meet the relevant standards. The accommodation and support materials and equipment carried must be sufficient and surplus to prevent problems such as failure to replace them in time or fail to guarantee reinforcements. Secondly, to make the allocation reasonable and divide scientifically. Standardize and unify the professional forces participating in the guarantee from the aspects of professional structure, personnel composition, coordination and cooperation, and construction specifications, without blindly saving costs or extravagance. The third is to improve efficiency. To give full play to the advantages of modular accommodation guarantee, just like putting together a jigsaw puzzle, no matter the shape or size, place the right module in the right place. When there is a change in the safeguard stage, the safeguard area and safeguard modules can be added or reduced reasonably to maintain the safeguard effect while controlling the scale.

The third is to establish a flexible accommodation guarantee module. In order to successfully complete the accommodation guarantee work, it is necessary to effectively integrate the self-assurance resources of the task unit and the accommodation guarantee resources around the mission area and minimize and refine various guarantee units. To solve the problem of rigid location selection, take modular accommodation guarantee as a breakthrough, introduce smaller, more detailed and

adjustable guarantee units, and establish a small and precise accommodation guarantee module. The miniaturized accommodation guarantee module is more conducive to the combination and splicing of modules, and it is also more conducive to the selection of modules after comparative analysis. It is more flexible and changeable in selection and has the characteristics of stronger sustainability. The security module is not limited to being small, but also refined. For example, in the selection of the hotel security module, small hotels with insufficient hardware facilities and substandard hygiene standards should not be included in our selection. Too low security standards will waste a huge amount of manpower and energy. material resources, while also reducing living conditions and quality, thereby affecting the quality of work completion. In special circumstances, when only relatively poor security modules can be selected, materials for renovation should be prepared in advance, entering the accommodation area in advance, and standardizing the security modules to ensure the successful completion of accommodation security.

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