

Scientific and Practical Innovative Foundations For Ensuring Fire Safety And Preventing Severe Consequences

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One of the pressing issues of today is the Prevention of fires, ensuring safety and stability, as well as increasing alertness and alertness, which are non-lingual yov caused by various causes. A fire is an uncontrollable burn that damages the life and (or) health of people, the property of legal entities and individuals, as well as the natural environment of the environment. Fire safety-the state of protection of the property of people, legal entities and individuals, as well as the surrounding natural environment from fires. The fire safety system consists of a set of legal, organizational, economic, social and scientific and technical measures aimed at preventing fires and extinguishing them, as well as forces and tools. The subjects of the fire safety system are state and economic management bodies, local government bodies, citizens ' self-government bodies, as well as enterprises, institutions, organizations and citizens. Ensuring fire safety is a component of the activities of officials and other employees of organizations, as well as individual entrepreneurs.

During the planning of the development of settlements and the construction of buildings in them, the design, construction, expansion, reconstruction and Technical re-equipment of buildings and structures, ensuring fire safety is assigned to a specially authorized state body in the field of urban planning activities, customers, castle builders, project and construction organizations, respectively, in accordance with fire safety measures, also developed on the basis of fire resistance experience, assessment of fire hazard of substances, materials, technological processes, objects, structures, equipment, buildings and structures manufacturers (suppliers) of substances, materials, objects, structures and equipment are indicated in the relevant technical documentation of fire hazard indicators of these substances, materials, objects, structures and equipment, as well as fire safety measures used in their use.

Solutions are envisaged in the development and implementation of fire safety measures for organizations, buildings, structures and other facilities, including ensuring the evacuation of people during fires and the preservation of the property of legal entities and individuals when they are designed.

There are more than 3.1 million fires in the world every year, killing more than 20,000 people. About 50% of fires occur in buildings and transportation, and they also account for 90% of all victims. General information one of the main factors in the Fight Against Fire is the timely identification of it and the implementation of measures against it before the fire intensifies. The use of communication tools and alarms gives a good result in this. Foreign technical means are regularly entering our republic, the oil and gas industry, energy, non-ferrous metallurgy, communication and communication industries are developing dramatically. This is one of the factors that lead to an increase in the demand and attention to firefighting techniques. In particular, in foreign countries, modern technical means for the purpose of combating fires, fire prevention are used effectively and efficiently. This assumes the creation and development of new generations or species of automatic fire messengers as well. Rapid and effective fire suppression is largely dependent on the rate of its detection reaction, the rapid implementation of measures directed at fire localization.

Automated fire extinguishers with sprinklers with sprinkler fire extinguishers are installed in buildings with high fire risk for the purpose of firefighting and fire localization. The automated sprinkler fire extinguishing system will automatically start in cases of fire and will be reported by sound and light (lamp). This is a special device that can extinguish a fire by splashing water from a certain height in a fire and prevent it from spreading.

The principle of operation of easy-melting alloy heat fire messengers is based on the operation of the signal chain in the fusion of a sensitive element under the influence of temperature. For example, in DTL-type combustion messengers, a wood alloy (tin+carmium+bismuth+lead) with a melting temperature of 720S is applied as a sensitive element, which combines a plate with two metal spring plates. When heated, the alloy melts and the spring plates connect the signal chain. DTL-type combustible messengers are used in guard-fire alarm devices. Soluble and easily soluble sensitive element fire messengers have several following advantages:

1. Simple structure of the DTL type fire Messenger;
2. High reliability of the DTL type ignition Messenger.

Smoky heat fire messengers. Smoke heat fire messengers work on the principle of noticing smoke in the air, that is, small solid particles formed in the complete non-combustion of substances and materials. These types of fire messengers are the simplest types of fire messengers. Fire messengers of this type do not need to be connected to a permanent power source. They are powered by disposable powerplants (batteries).

In industrial enterprises, without the participation of a person in case of a fire, it is very desirable to convey the news of the fire to the dispatcher's service or to the right fire team from the mountain. In doing so, the Fire Command arrives at a quick opportunity as the fire report shows where the fire is going on. The currently used ESP fire alarm is reliable. Some of these systems are equipped with automatic fire extinguishers, so in this case it is also possible to extinguish the fire in the protected building until the arrival of the fire brigade.

The application of automatic fire protection systems guarantees the protection of Fire Hazardous factors from their impact on human and material goods wealth, the effective elimination of fires, ensuring the preservation of the material and spiritual wealth of the state. Fire automation is one of the main directions of ensuring fire safety. Ensuring the normalization of social life, the economy, the preservation of national wealth serves to eliminate the occurrence of fires in various sectors of the national economy. Several problems that exist in the direction of ensuring fire safety can be solved by the introduction of special protective equipment at industrial enterprises and objects of the social sphere, as well as the use of automatic fire detection and automatic fire extinguishing systems.

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