

PROBLEMS OF PREVENTING ACCIDENTS ON RAILWAYS AND ENSURING THE SAFETY OF CITIZENS

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ABSTRACT: This article describes the types of accidents that occur on railway tracks, the causes of accidents, and the problems of ensuring the safety of citizens on railway tracks.

Citizens are required to: prevent accidents, prevent violations and crimes at railway stations, stations, railway stations, enterprises, do not place foreign objects on steel tracks, do not throw stones at the windows of passenger trains, do not cross unmarked areas of railways. That's why a wide range of explanatory work is being carried out among the citizens.

KEY WORDS: Accidents, Safety, Incidents, Freight, Passengers, Injuries

I. INTRODUCTION

Recently, there have been negative situations that threaten the safety of passenger and freight trains in railway transport facilities, i.e. citizens arbitrarily crossing unmarked areas of the railway, passenger trains throwing stones at the windows of carriages, placing foreign objects on the railway, grazing cattle around the railway, Unfortunately, accidents involving citizens and minors and other unpleasant situations occur as a result of traffic accidents occurring at unguarded railway crossings, using mobile phone earphones while crossing the road.

As a result of such unpleasant circumstances, someone's life ends, while others end up with disability. In other reports, we find information about someone's livestock being run over by a train. Prevention of unpleasant situations and reducing the type of accidents on railways is one of the current topics. For this, it is necessary to explain to the citizens their understanding of the types of accidents that can happen on the railways, their causes, the instructions and other types of safety rules that must be followed by the citizens on the railways.

II. RESEARCH METHODS

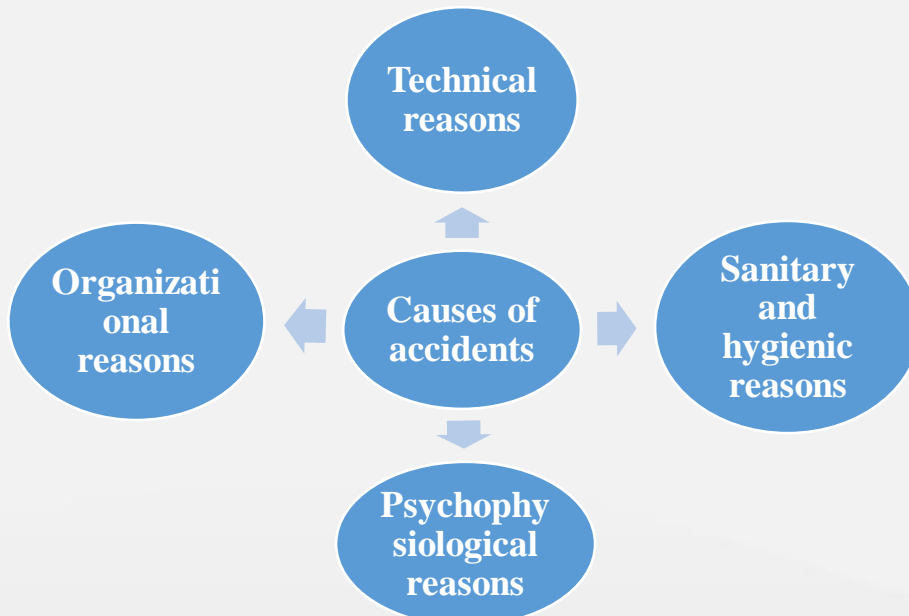
An accident - is a sudden injury to a person's body that causes a loss of working capacity. Accidents include accidents, traumas, injuries, fractures, burns, heat stroke, frostbite, severe poisoning.

Accidents are divided into production-related, non-production-related, non-work (domestic) accidents.

Accidents are divided into the following types:		
related to production	unrelated to production	non-work (domestic) accidents

An in-depth analysis of accidents resulting from accidents related to human health, prevention of occupational diseases and reduction of industrial injuries. An important role is played by studying the causes of unfortunate events based on a deep analysis.

The causes of accidents are mainly divided into 4 groups.



Technical reasons - include malfunctions of machines and mechanisms and work equipment, electrical devices not connected to the ground, incorrect use of

loading and unloading machines, non-compliance of the construction of machines and mechanisms with labor protection requirements.

Sanitary-hygienic reasons - non-observance of labor hygiene, sanitary norms and rules, abnormal lighting, temperature, relative humidity, speed of air movement, air pressure, excessive noise, vibration, dustiness or gassiness of the air can be included.

For organizational reasons - improper organization of the work regime and rest regime, failure to create healthy and safe working conditions, failure to train workers on the rules of safety equipment, lack of warning signs in workplaces, failure to hire workers by specialty, failure to provide workers with special clothing and personal protective equipment, and others are examples.

Psychophysiological reasons - include neglect of the work being done, lack of control over the worker's work, physical or nervous exhaustion, and others.

Along with studying the types and causes of accidents, we will study the accidents that happened on railways.

III. THEORETICAL ANALYSIS

Hundreds of trains move every day on the railways, which are of strategic importance in the economy of our country, carrying thousands of people and various goods to their destination. As an example, information on freight and passenger transportation services in 2021 and 2022 by the Joint-Stock Company of Railways of Uzbekistan is given.

72.03 million for cargo transportation in 2021. If tons of cargo were transported, in 2022, 73.36 million tons of cargo were transported. 2.97 million in passenger transportation in 2021. if passengers were transported, in 2022 9.14 mln. the passenger is served.

Compared to 2021, the cargo shipped in 2022 increased by 1.84%, cargo turnover by 1.3%. In terms of passenger transport, it can be seen that in 2022, compared to 2021, the passenger turnover increased by 13%, and the number of sent passengers increased by 14.6%. From this we can conclude that passenger and cargo transportation is increasing year by year. Such an increase will lead to an increase in the number of trains on the railway tracks. Instead, the increase in traffic leads to an increase in the number of unexpected accidents.

In the process of delivering passengers and goods to their destination, moving trains, regardless of whether they are passenger-carrying or cargo-carrying trains, are causing various kinds of accidents.

Because railroad tracks are objects of increased danger.

By being on them, you are putting your life at risk. Every year, dozens of people are seriously injured under the wheels of railway transport. There are many cases of fatal injuries. Being close to the paths you need to be extremely vigilant yourself and attentive to others.

On the railway it is forbidden:

1. Walk on the railroad tracks.
2. Cross and run across the railway tracks in front of a nearby train if the distance to it is less than 400 meters.
3. Cross the track immediately after the passage of a train in one direction, without making sure that there is no train in the opposite direction.
4. At stations and hauls, crawl under the wagons and climb over the automatic couplers to get across the track.
5. Pass along the railway track closer than 5 meters from the outermost rail.
6. Pass through railway bridges and tunnels that are not equipped with walkways for pedestrians.
7. Stand on steps and transition platforms, open car doors while the train is moving, delay the opening and closing of automatic doors of suburban trains.
8. Run along the platform next to the car of an arriving or departing train, and also stay closer than two meters from the edge of the platform while the train is passing without stopping.
9. Leave children unattended on boarding platforms and in carriages.
10. Get out of the car at the inter-track and stand there when the oncoming train passes.
11. Jump from the platform to the railroad tracks.
12. Arrange various outdoor games on the platform.



a



б



в



г

a,b-railway crossing; v-walking along the railway tracks; g-a view of the unfortunate events that occurred.

Fig-1. Safe behavior at railway transport facilities

A certain amount of reduction in the number of accidents can be achieved as a result of following the prohibitions on railways mentioned above.

But life is a constant movement. Someone rushes to work, someone to home, someone to study, and someone to the street with their chores. Of course, in such a situation, it is true that attention is slightly distracted.

As a result of this, not paying much attention to the events happening around, not following the above mentioned road rules, roads are crossed in places where it is not recommended to pass. This leads to the occurrence of various unfortunate events, as a result of which a person poses a danger to himself, the transport and the entire train.

For this reason, comprehensive measures are being taken to prevent accidents, to prevent violations and crimes, not to place foreign objects on steel tracks, not to throw stones at the windows of passenger trains, not to cross unmarked areas of railways.

In order to prevent unpleasant situations and for our citizens to return safely to their families and loved ones, our citizens are requested not to put their lives at risk, not to cross unmarked areas of railways, not to walk between railway tracks, not to leave young children unattended near railways, to follow railway rules. . It is necessary for every citizen to understand that big accidents happen as a result of not following the rules and being indifferent. The 2nd picture shows how many people and cars were damaged due to the accident. In order to prevent such terrible events from happening, and to prevent various unfortunate events, it is necessary to carry out continuous educational work for the residents of all the places where railway tracks are laid.



Figure 2. A view of the consequences of the accident

I. CONCLUSIONS

We conclude as a result of the above comments. In order to prevent, reduce the number of accidents occurring on railways, and ensure the safety of citizens, it is necessary to educate them. It is recommended that this outreach work be carried out more among the people living around the railroad tracks. Explanation work is carried out on the basis of a schedule, with one day of the week set. For example: Wednesday is a safe day on the railways and Thursday is a preventive day, in the neighborhoods near the railway, in educational institutions, in railway enterprises and organizations, citizens and students regularly follow the rules of the railway danger zone, the rules of crossing the railway. Preventive awareness work is being carried out among the population about not to damage the railway communication and signaling devices, not to throw stones at the car windows, not to graze livestock near the railway. As a result, it is possible to ensure the safety of citizens and the number of accidents in a certain amount.

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