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Development of Safety Technique Rules When Using Plant-Tractor Units

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ABSTRACT

This article provides guidance on occupational health and safety required for mechanized field work, including the use of planters. Following these safety precautions will help prevent potential accidents.

Safety engineering is a technical discipline that determines the causes of accidents that may occur in places where machines work and determines ways to prevent and eliminate accidents based on the study of production tools and work methods. Accident prevention measures include:

a) technical activities: improvement of machines, equipment, devices and tools; design and study of fencing etc.;

b) organizational activities: creation of effective technological and production processes, training in safe working methods, control of the implementation of safety equipment rules;

Safety techniques are inextricably linked with fire fighting measures. If these measures are followed, the risk of fire will disappear, and in the event of a fire, it will be necessary to organize measures to save people, animals, equipment, machines, crops, etc., as well as property. Every year, many events are held throughout the country to improve and improve security techniques and anti-robbery measures. Every employee must know and follow the rules of safety techniques in order to prevent injuries and occupational diseases. Accidental injury to a worker while performing a production task is called a production injury. In this case, the worker may temporarily or permanently lose his ability to work. Unfortunate events are the lack of training and guidance of the worker at the workplace, the extension of the working day it may happen due to reasons such as being sent, being processed on faulty machines.

The energy availability of today's rural economy is higher than ever and growing steadily. Supplying agriculture with modern techniques is constantly increasing.

In addition to quantitative changes in agricultural machinery, important qualitative changes are also

taking place: high-speed high-power tractors, extensive hydroficated aggregates, machines for initial and pre-planting tillage, modern combines for harvesting technical crops, automation, control tools and others are in current kilinmok. With this, in addition to achieving high productivity and productivity in agriculture, it is necessary to organize labor protection and safety equipment at a high level in highly mechanized agricultural production.

Planting of agricultural crops with the help of machine-tractor units is allowed only on machine-tractor units that have no technical defects in planting. Each machine-tractor unit must have front and rear lights for night operation. The machine-tractor unit must have a rear view mirror. The mechanic uses this window to monitor the machine and the people working on the unit behind it. During work, the mechanic should have a set of tools, a first aid kit, a guide, a rag for wiping hands, a bottle of water and a fire extinguisher. The mechanic must have gloves and protective glasses.

At the beginning of each shift, the mechanic carefully checks the condition of the unit, the tightness of the connections, and the correct installation of the plugs must Particular attention is paid to the condition of the steering, clutch, brakes, towing device, lighting and fuel system devices.

It is forbidden to work on a machine-tractor assembly that is poorly adjusted or has technical defects, as well as leaking fuel, water, or oil. When refueling machine-tractor units, it is necessary to pay special attention to fire prevention measures. When entering the fuel tank, the exhaust pipe should face the fuel tank; the fuel tank must be pumped through a copper mesh funnel; it is necessary to unscrew the cork of the bottles with a special key. An electric lamp or an electric lantern should be used when driving the machine-tractor units at night.

When checking the water in the radiator of an overheated engine, be careful of steam and boiling water. To do this, the tractor operator should wear gloves and stand an arm's length away from the wind.

On cold days, it is necessary to heat lubricants in special containers. When checking fuel containers, it is forbidden to light matches, light fires and smoke. If the fuel catches fire, it should be extinguished with sand, earth, felt or a fire extinguisher. In such cases, the use of water is prohibited.

When operating planter-tractor units, the planter observer must be specially trained, instructed and at least 18 years of age. The observer must be provided with special clothing and personal protective equipment.

It is necessary that people do not stand around the planter-tractor aggregates while moving them, and all workers are warned by a special signal.

When connecting the tractor to the planter, it is necessary to use the engine at the lowest speed. The operator must stop the tractor at the first signal of the driver, so his foot must always be on the clutch pedal when reversing. It is forbidden to drive the tractor back with the trailer, jump from the unit in motion, sit on the benches, stand on the ladder, adjust the unit, make repairs, transfer from the tractor to the trailer or vice versa.

When going uphill and downhill, it is driven in I or II gear. When crossing the railway, especially in unprotected areas, the driver must stop the tractor, determine whether the train is coming or not, and then go to the first speed. Defects detected during operation are eliminated after stopping the engine.

Special care is required from the mechanic working at night. First of all, he needs to be familiar with the area where he works at night. Therefore, he should go around the place where he works at night during the daylight hours.

Do not stand in front of or behind the belt drive pulley during operation, and do not insert or remove the belt from the rotating pulley. All transmissions must be carefully protected with a case.

The working bodies of planting machines are driven by the power take-off shaft of the tractor. Therefore, the cardan transmission must be equipped with a special device to ensure safety.Trailers must be firmly connected so that they do not hit the tractor. It is forbidden for people to get into

mounted (suspended) vehicles. It is forbidden to leave the installation machines elevated after work and during long-term shutdowns.

When entering the gas station, the machine-tractor units must have the necessary fire extinguishing equipment.

In addition, it is necessary to observe the following safety rules when working with planting machine-tractor units:

1. Only persons who are familiar with the rules of loading and operating the planter-tractor unit, who can eliminate their shortcomings and who have a special certificate giving the right to operate these units, are allowed to work on the planter-tractor unit. It is strictly forbidden to hand over machine-tractor units for use to outsiders.
2. Machine-tractor units with technical defects should not be used.
3. It is necessary to give a sound signal before driving the machine-tractor units.
4. Only when the machine-tractor units are moving straight, the mounting plugs can be moved to the running or working position.
5. Lubrication of machine-tractor units, tightening of bolts and nuts, or cleaning of contaminated working surfaces are performed only after stopping the machine-tractor unit. It is forbidden to carry out repairs or adjustments under the plug attached to the tractor.
6. When the seeding machine-tractor units are in the running position, the unit should be turned smoothly. If the chain of the installation system is loose, it is not allowed to turn the units.
7. Cultivator or a pad should be placed under them during maintenance of planting MTA.
8. Planting When the MTA is stopped, the planter must be lowered to the ground.

If the above safety rules are followed, accidents will be avoided when using planting MTA.

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