



**РОСАТОМ**

ГОСУДАРСТВЕННАЯ КОРПОРАЦИЯ ПО АТОМНОЙ ЭНЕРГИИ «РОСАТОМ»

**RESEARCH AND ENGINEERING INSTITUTE OF RADIO-ELECTRONIC TECHNOLOGIES**  
**branch FGUP FNPTS «PO «Start» named after M.V.Protsenko»**

## **Rapidly deployed complex of safety during the blasting work on the ground**

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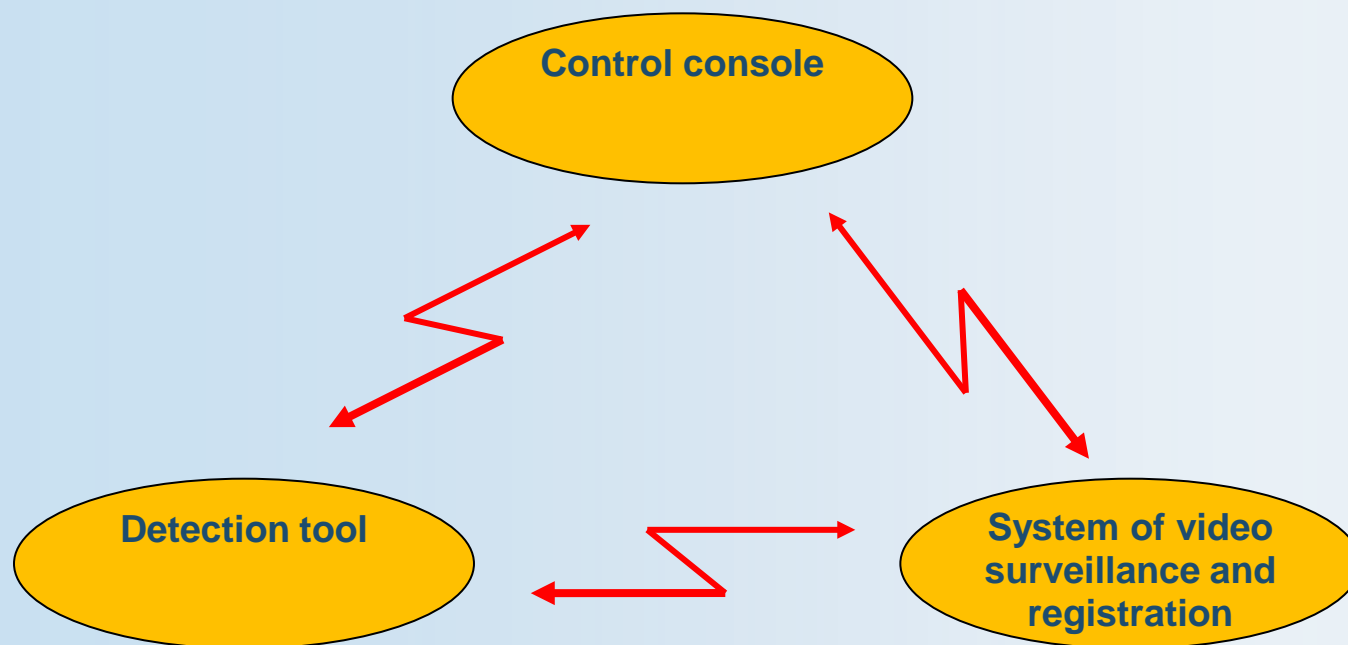
# Rapidly deployed complex of safety during the blasting work on the ground

## Purpose of complex:

- Guaranteed control of unauthorized appearance of people on the territory of blasting work;
- Notification of personnel and video recordering of unauthorized appearance of people on the territory of blasting work;
- Classification of violators according to the following types : single/group/motor transport;

# Rapidly deployed complex of safety during the blasting work on the ground

## COMPLEX STRUCTURE



# Basic key features

- Total amount of off-line detection tools up to 200;
- Physical principals of detection which are used: radio beam, infrared, seismic, radio wave, break wire;
- Total amount of off-line video cameras up to 200 ;
- period of off-line operation not less than 90 days;
- Operation on any type of terrain;
- Range of operating temperature from 50°C to minus 40°C;
- Transmission range without radio repeaters up to 10 km.;
- constant automatic check of state of communications channels, power supply and functionality of the components.

# Radio beam detection tool



**Length of detection zone** from 5 to 125 m  
**Width of detection zone** not more than 5 m  
**Period of unfolding** not more than 5 min.  
**Period of continuous work** not less than 90 days  
**Weight of the item in the operational packing (bags),** not more than 10 kg

# Infrared detection tool



**Length of detection zone up to 50 m**  
**Width of detection zone up to 30 m**  
**Period of unfolding not more than 2 min.**  
**Period of continuous work not less than 1 year.**  
**Weight of the item in the operational packing (bag), not more than 5 kg**

# Seismic detection tool



**Radius of detection zone of a person** up to 50 m  
**Radius of detection zone of a motor transport** up to 150 m  
**Classification of violators: person/group/motor transport**  
**Period of unfolding** not more than 5 min.  
**Period of continuous work** not less than 1 year.  
**Weight of the item in the operational packing (bag),** not more than 5 kg

# Radio-wave detection tool



<b>Total length of border</b>	<b>up to 1,0 km</b>
<b>Total amount of participants</b>	<b>up to 50</b>
<b>Length of one sector</b>	<b>from 3 to 20 m</b>
<b>Amount of participants' groups</b>	<b>up to 7</b>
<b>Period of unfolding of one sector</b>	<b>not more than 5 min</b>
<b>Period of continuous work</b>	<b>not less than 80 days</b>
<b>With seismic detector</b>	<b>not less than 160 days</b>
<b>Weight of the item in the operational packing (bag),</b>	<b>not more than 7 kg</b>



# Break wire detection tool



**Length of guard sector      up to 500 m**

**Period of unfolding of one  
sector                              not more than 10 min**

**Period of continuous work      not less than 1 year**

**Weight of the item in the operational**

**Packing (bag),                      not more than 1 kg**

# System of video surveillance and registration



**Amount of off-line video cameras** up to 200  
**Distance of video surveillance** up to 80 m  
**Period of unfolding of one sector** not more than 10 min  
**Period of continuous work:**  
**from integral power supply** not less than 7 days  
**From external source** not less than 160 days.  
**Weight of the item in the operational packing (bag),** not more than 5 kg

# Контактная информация

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