Our organization is more than 100 years old
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

Symbol of Donetsk city,
the capital of miner's area

Symbol of STATE MINE
RESCUE SERVICE
IN COAL MINING
INDUSTRY OF UKRAINE
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

The headquarter of SMRS (Donetsk)
Operating-technical group, mine rescue groups -11,
Platoons -36, separations – 260,
Reanimating-antishock groups (RAG) -21,
Specialized Gas analyser laboratories (GAL) – 24,
Depressing gas service groups (DGS) -10,
Objects – 318

10 Mine Rescue Group (Dimitrov)
Platoons -3, Separations – 24,
RAG – 3, GAL - 3,
DGS– 1, objects - 34

1 Mine Rescue Group (Gorlovka)
Platoons – 5, Separations – 36,
RAG – 3, GAL – 4,
DGS– 1, objects - 43

8 Mine Rescue Group (Pavlograd)
Platoons – 3, Separations – 20,
RAG – 1, GAL – 2,
DGS– 1, objects - 11

Operative Mine Rescue Group (Donetsk)
Platoons – 4, Separations – 33,
RAG – 1, GAL – 3,
DGS– 1, objects - 28

3 Mine Rescue Group (Makeyevka)
Platoons – 4, Separations – 26,
RAG – 1, GAL– 1,
DGS– 1, objects - 18

6 Mine Rescue Group (Torez)
Platoons – 4, Separations – 24,
RAG – 1, GAL– 1,
DGS– 1, objects - 67

Lugansk headquarter of SMRS (Lugansk)
mine rescue groups– 4
Platoons – 13, separations – 96,
RAG – 10, GAL – 10,
DGS– 4, Objects - 117

4 Mine Rescue Group (Lugansk)
Platoons – 3, Separations – 26,
RAG – 2, GAL – 2,
DGS– 1, objects - 27

5 Mine Rescue Group (Krasniy Luch)
Platoons – 3, Separations – 22,
RAG – 3, GAL – 3,
DGS– 1, objects - 46

2 Mine Rescue Group (Stakhanov)
Platoons – 3, Separations – 26,
RAG – 3, GAL – 3,
DGS– 1, objects - 27

7 Mine Rescue Group (Krasnodon)
Platoons – 4, Separations – 22,
RAG – 2, GAL – 2,
DGS– 1, objects - 27

Educational Group (Donetsk)

Mechanical workshops (Gorlovka)
State Mine Rescue Service in Coal Mining Industry of Ukraine

Dynamics of emergencies at the enterprises served by the State militarized mine-rescue service of Ukraine for 2000-2004 and for 9 months of 2005

Accidents

- Emergency situations: 507
- Underground accidents: 362
- Underground fires: 188
- Rock fall: 136
- Accidents on the surface: 70
- Gas explosions: 14
- Sudden outrush: 19

Quantity of accidents for 5 years
Dynamics of emergencies at Ukrainian coal mines
STATE MINE RESCUE SERVICE IN COAL MINING INDUSTRY OF UKRAINE

Economic effect, million of hrivnas
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

First International Mine Rescue Contest
Louisville, Kentucky
September 21 - 24, 1999

International Mine Rescue Contest
Las Vegas, Nevada
July 18 - 20, 2000
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

The elements of mine-rescuers training
The system of modeling of emergency operation of air-distribution is one of assistants to rescuers
The elements of mine-rescuers training
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

The working everyday life
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

The equipment of the State Mine Rescue Service
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

The technique of the State Mine Rescue Service
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

Statistics of freely burning fires for 2002-2005

Ignition causes

Fire damage, thousand of hryvnias

Total amount for the period
Friction of executive parts of devices
Violation of safety rules during explosion works
Violation of safety rules during fire works
Friction of conveyor belt
Casual handling of open fire
Disrepair of electrical devices
Other causes
Statistics of freely burning fires for 2002-2005

Ignition causes:
- Total amount in the period
- Friction of executive parts of the device
- Violation of safety rules during explosion works
- Violation of safety rules during fire works
- Friction of conveyor band
- Casual handling of open fire
- Disrepair of electrical devices
- Other causes

Duration of liquidation, hours:
- 0
- 200
- 400
- 600
- 800
- 1000
- 1200
- 1400

Working hours, person-hour:
- 0
- 5000
- 10000
- 15000
- 20000
- 25000
- 30000
- 35000
- 40000

Total amount for the period
- 2371
- 2560
- 2585
- 2850
- 3105
- 3345
- 3575
- 3860

Friction of executive parts of the device
- 43
- 64
- 84
- 105
- 126
- 147
- 168
- 189

Violation of safety rules during explosion works
- 0
- 0
- 0
- 0
- 0
- 0
- 0
- 0

Violation of safety rules during fire works
- 0
- 0
- 0
- 0
- 0
- 0
- 0
- 0

Friction of conveyor band
- 0
- 0
- 0
- 0
- 0
- 0
- 0
- 0

Casual handling of open fire
- 0
- 0
- 0
- 0
- 0
- 0
- 0
- 0

Disrepair of electrical devices
- 0
- 0
- 0
- 0
- 0
- 0
- 0
- 0

Other causes
- 0
- 0
- 0
- 0
- 0
- 0
- 0
- 0
STATE MINE RESCUE SERVICE
IN COAL MINING INDUSTRY OF UKRAINE

Scheme of examination of a working area by branches of the State militarized mine-rescue service for the purpose to give assistance to a victim and to go out into the fresh air.

The total operating time of the branch in an atmosphere unsuitable for respiration:

\[ T = T_b + T_4 + T_h = 82.6 + 5 + 128.4 = 216 \text{ min}. \]

<table>
<thead>
<tr>
<th>Time index</th>
<th>Denominations of workings</th>
<th>Time of movement, min</th>
</tr>
</thead>
<tbody>
<tr>
<td>T_1</td>
<td>Forward on airway</td>
<td>32.7</td>
</tr>
<tr>
<td>T_2</td>
<td>Forward on long face</td>
<td>13.1</td>
</tr>
<tr>
<td>T_3</td>
<td>Forward on belt entry</td>
<td>36.8</td>
</tr>
<tr>
<td>T_4</td>
<td>Time for rendering assistance and for preparation to transport the victim</td>
<td>5.0</td>
</tr>
<tr>
<td>T_5</td>
<td>Back with the victim on belt entry</td>
<td>82.1</td>
</tr>
<tr>
<td>T_6</td>
<td>Back with the victim on long face</td>
<td>35</td>
</tr>
<tr>
<td>T_7</td>
<td>Back with the victim on airway</td>
<td>11.3</td>
</tr>
</tbody>
</table>

The total operating time of the branch in an atmosphere unsuitable for respiration: 216 min.
THE STATE MINE RESCUE SERVICE
IN COAL INDUSTRY OF UKRAINE

The State Mine Rescue Service headquarter

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