

ORGANIZATION AND ACTIVITIES OF COAL MINE RESCUE CENTRE OF VIETNAM NATINAL COAL MINERAL INDUSTRIES GROUP (VINACOMIN)





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- Organization
- Equipments in use
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- Training activities
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MINE RESCUE CENTRE OF VIETNAM

History

- Established late compared to the coal mine exploitation history in Vietnam in 1978.
- Since then, the mine rescue centre has been grown. Together with the development of coal mines, the Centre has been growing stronger step by step, which timely meet the demand of coal mining industry.
- Vietnamese mining rescue force is included: Professional rescue team who are responsible for mine rescue and locates in mine rescue centre and rescue teams of 28 coal mines.



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Organization

- The underground mines of Vietnam national coal mineral industries group are located mainly in 3 areas of Quang Ninh province: Dong Trieu - Uong Bi, Hon Gai (Ha Long City) and Cam Pha with the length about 140 km.
- There are not any underground mine in other provinces. In the future, there will be some new coal mines in Thai Nguyen province and Red River Delta.





MINE RESCUE CENTRE OF VIETNAM

Organization (con't)

- The workforce of mine rescue centre are divided in 3 sub-divisions:
 - Mobile rescue team will be served for underground mines in Ha Long city.
 - Cam Pha mine rescue station will be served for underground mines in Cam Pha area.
 - Uong Bi mine rescue station will be served for coal mines in Uong Bi – Dong Trieu area.



MINE RESCUE CENTRE OF VIETNAM

Organization (con't)

- The purpose of this organization is the operation radius of each team is not over 30 km from the rescue centre in order to react faster with the accident.
- Each rescue station has 35 staffs, divided in to 5 groups, each group include 7 staffs.
- All rescue centers are ready 24 hours per day for any accident.



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Equipments in use

- The special vehicles for the mission are equipped for mobile rescue team which equipped with:
 - Draeger CCBA PSS BG4 for each staff
 - Self-rescue equipment TC-11c
 - Supported-breathing equipment P 34
 - Optical gas detectors; thermal meter
 - Personal protective equipments: protective clothes
 - Rescue device of Lukas (Germany)
 - First aid kit, communication sets, mine lamp and others.





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Capacity

- Can quickly respond to all kind of accidents from:
 - burning, gas explosion
 - collapsing the mine and oxygen insufficiency
 - firefighting
- Concerning the burn in mine and gas explosion, we also used two Nitrogen generators, model JXZD – 200 from China, and a system to pump water and mud for firefighting. These systems can be moved fast to the accident location.
- For the firefighting of open mines, we have two fire trucks which are ready for mission 24 hours per day. In the both case of outside and inside coal mine, we also have an equipment to generate extinguishing foam.



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Training activities

- Semi-professional mine rescue team become regular staff of mine exploitation technology lines. They take part in training courses in mine rescue centre and then come back to work in the mine. Under urgent circumstances, they are ready to deal with the problem before the mine rescue team of centre arrive and co-operate with them when the problem develop in a long time. They are equipped CCBA, self rescue, gas detector, thermal meter and first aid kit.
- Every year, well-trained people who have many years' working experience in the Centre are transferred to be the cadre of the semiprofessional mine rescue force, and some people from mine will be trained to become professional rescue force.





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Training and operation activities

Daily training and activities:

- The permanent staff of the mine rescue Centre are trained with exercises to strengthen their physical fitness, practice with CCBA in hazardous atmosphere, practice a technical lesson as using gas detectors, self rescue devices and building up the wall.



Training course at Mine Rescue Centre



MINE RESCUE CENTRE OF VIETNAM

Training and operation activities

Monthly training and activities:

- The staff of mine rescue centre will visit all the tracks under coal mines every 2 times per month in order to:
 - to check and control the accident preservation of mines
 - to familiarize with the tracks under the mine.

In this way they can move quickly to the field, when the breakdown occurs. By doing this trip regularly, the drivers also have known the route and test the quality of the vehicle.

- Every quarter, all the underground mines plans for “Plan to solve the accident” with the agreement of mine rescue centre before submit to the competence department. In this plan, they must show the location where the circumstances can be happened and the technical solution to solve the accident at the beginning.



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Activities on the real actions

When an accident happens:

- The semi-professional rescue workforce will arrive and apply the method in “Plan to solve the accident” to help the miners who can escape on the most safety way.
- At the same time, the information about the accident, the place and the requirement for the professional rescue team will be reported to the mine rescue centre.
- The professional rescue team will be deployed immediately and informs to director of mine rescue centre
- Firstly, a workforce of mine rescue centre in the same area will take a task for rescue, and then the workforce from two other areas will be mobilized to come for help.
- In the accident area, the workforce can be set up to 3 lines, depending on the requirement of situation and the decision of mine rescue center’s director.



MINE RESCUE CENTRE OF VIETNAM

Activities on the real actions

- When the explosive of gas is happened, the rescue team goes to the mine to search information first.
- After receive the order from the commander, they will realize the plan and come into the mine to rescue.
- The priority is searching for the victims who have ability to live.
- It depend on the level of circumstances, the leaders of circumstances department will send the advisers from the mine group to help.
- The 1st responsibility person belongs to the director of mine and the 2nd person is for the director of mine rescue centre.



MINE RESCUE CENTRE OF VIETNAM

Activities on the real actions

- The director of mine rescue centre has to keep contact with his staffs in the mine to receive the information to give a suitable decision.
- Depend on the actual situation, the director will go in to the mine to check and understand the real situation, the vice directors will command directly all the teams.
- The rescue team of mine rescue centre combine with the miners to solve the smaller accidents such as the roof falls, water break accident...
- The professional rescue team uses the special equipment to ensure the safe environment, so the miners will do the technical action to escape the circumstances.
- When the circumstances is solved, the team of rescue centre continue to help recovering the activity in the mine.



MINE RESCUE CENTRE OF VIETNAM

Address : Ha Tu Ward, Ha Long,
Quang Ninh Province,
Vietnam

Tel. : + 84.33.3833 000

Fax : + 84.33.3836 346

Contact person : Mr. Pham Van Huyen

Position : Director

MINE RESCUE CENTRE OF VIETNAM

