Tunnel rock drill safety regulations video

What is the OSHA underground construction regulation?

The OSHA underground construction regulation (29 CFR 1926.800)applies to the construction of underground tunnels,shafts,chambers,and passageways. It also applies to cut-and-cover excavations connected to ongoing underground construction as well as those that create conditions characteristic of under-ground construction.

What should be done if a tunnel is collapsed?

Ground collapse (need we say more?) Work with Tunnel Foremen &Safety Supervisorto ensure adequate safety measures are taken. Should there be no initiation of explosives,minimum re-entry time must not be less than 30 mins. Blast inspection team shall enter tunnel with appropriate breathing apparatus. Non-explosives until being charged.

Does OSHA require illumination during tunneling operations?

As in all construction operations,OSHA requires that proper illu-mination be provided during tunneling operations(see 29 CFR 1926.56 for details). When explosives are handled,only acceptable portable lighting equipment may be used within 50 feet of any underground heading.

Are underground tunnels dangerous?

The construction of underground tunnels,shafts,chambers,and passageways are essential yet dangerous activities. Working under reduced light conditions,difficult or limited access and egress,with the potential for exposure to air contaminants and the hazards of fire and explosion,underground construction workers face many dangers.

What is the minimum illumination intensity for tunneling?

For general tunneling operations,a minimum illumination intensity of 5 foot-candlesmust be maintained,although 10 foot-candles must be provided for shaft heading during drilling,mucking,and scaling. The employer must assign a "competent person" to perform air monitoring.

What are the safety requirements for parked rail equipment?

Parked rail equipment shall be chocked,blocked,or have brakes set to prevent inadvertent movement. Berms,bumper blocks,safety hooks,or equivalent means shall be provided to prevent overtravel and overturning of haulage equipment at dumping locations. Bumper blocks or equivalent stopping devices shall be provided at all track dead ends.

The "Guidelines for Good Occupational Health and Safety Practice in Tunnel Construction" are not intended to replace existing national regulations or guidance but to provide guidance on ...

OSHA regulations relating to underground construction were originally adopted in 1971 and revised over the

years to add new protective measures and enhance worker safety. This ...

The drill and blast method is a widely used technique in tunnel construction, especially in hard rock environments. This method involves drilling a series of holes into the ...

The drilling superintendent should supervise these ree conditions as, if not, the risk of accident will crease owing to over confidence, distractions, lack of lowledge and non-compliance with the ...

One of the boring machines used for the Channel Tunnel between France and the United Kingdom A tunnel boring machine (TBM), also known as a "mole" or a ...

Tunneling Equipment Stopers, benchers and jacklegs; mini excavator mounted drill attachments, up drills and HOR drills all have a specific purpose in tunnel ...

The risk increases especially, construction in poor rock condition and longer length tunnel. Hence, the safety during construction is crucial. The critical literature review indicated that very few ...

Underground construction comes with a number of safety hazards for workers. If you"re in the process of creating or re-vamping your safety procedures for your underground construction ...

Drill jumbos: Precision drilling in hard rock Drill jumbos are specialists in accuracy. Equipped with multiple booms, they drill precise patterns into hard rock, often for explosives or ...

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In this video, we show how rock drilling and bolting are carried out in a tunnel - one of the most important processes ensuring structural stability and work...

When it comes to drilling in confined spaces, crawler rigs offer an ideal solution. These compact yet powerful machines are designed to operate in tight environments while ...

A certified safety representative shall direct the required safety and health program and must be on-site while employees are engaged in operations during which the Tunnel Safety Orders ...

Roadheaders can be used for tunneling in stable rock conditions of low-to-medium hardness. Where it is applied, the roadheader combines the versatility of drill & blast for producing var ...

MSHA is responsible for enforcing the Federal Mine Safety and Health Act of 1977 (Mine Act) as amended by the MINER Act of 2006. The Mine Act gives ...

Advantages of Rock Bolting Rock bolting offers several advantages in underground construction. First and foremost, it significantly enhances safety by stabilising ...

For the various activities in the Tunnel Cycle, a detailed Job Hazard Analysis is carried out where all the potential hazards are identified for each work activity

Why Choose Jupiter Rock Drills for Tunneling? By selecting Jupiter Rock Drills, tunneling companies invest in reliable, high-performance drilling equipment designed to meet the unique ...

Drilling is a critical process in many industries, from oil and gas extraction to construction and mining. While it enables us to unlock natural resources and ...

The video features an introduction to the rock breaking process in mining, followed by a section on how to handle, store and transport explosive ...

Tunnel Safety Standards, Tunnel Safety Regulations, Tunnel Safety Compliance, Tunnel Safety Management, Tunnel Safety Protocols, Tunnel ...

The tool consists of four separate modules: iSURE® Tunnel for drill and blast design, drilling pattern design, longhole pattern, tunnel line and project files; iSURE® Report for drilling ...

Q6. Why might Drill and Blast be preferred over other tunneling methods like NATM? Ans: Drill and Blast is particularly effective in stable, hard ...

Hard rock tunnel boring, cutting, drilling and blasting: rock parameters for excavatability Thuro, K. Plinninger, R.J. ETH Swiss Federal ...

The drill & blast method is still the most typical method for medium to hard rock conditions. It can be applied to a wide range of rock conditions. Some of its features include versatile equipment, ...

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