**2017 Post 5 & West Virginia State Mine Rescue Contest  
Day 2**

Problem Briefing Day 2

Problem Statement

**You are located on the surface of the WV3B mine. This is a new 3 entry drift mine that is developing the main entries to turn left and right in the near future.**

**The 3rd shift foreman sent a 3 man crew up to the section to do work on the diesel ram car.**

**A loud boom was heard about 3 hours ago and we tried to enter the mine but found low O2 and methane. The tracking system shows all 3 men are still on the section. Phone communication has been unsuccessful.**

**We have an exhaust fan in the no.3 entry. Power knocked on the fan, but has been restored and can be turned on by a switch in the command center on the surface. There is a trained mine rescue team here to back you up and the power has been locked out and guarded. The mine maps are up not to date.**

**Please be careful and find our miners.**



Written Instructions

* **ACCOUNT FOR ALL MISSING MINERS**
* **EXPLORE ALL AREAS OF THE MINE THAT CAN BE DONE SAFELY**
* **TEAM MUST GET APPROVAL IN WRITING FROM SUPERINTENDENT BEFORE MAKING ANY CHANGES TO THE FAN OR FAN DOOR**
* **THE EXHAUST FAN CANNOT BE REVERSED**
* **AFTER TURNING ON, THE FAN CANNOT BE STOPPED OR STALLED**
* **THE DOOR IN THE FAN CAN BE OPENED AND CLOSED SAFELY BY A SWITCH LOCATED IN THE COMMAND CENTER**
* **TEAM MUST USE NO.2 ENTRY TO ENTER AND EXIT THE MINE**
* **THE TEAM CAN ONLY CARRY TWO BRATTICE CLOTH WHILE ADVANCING OR RETREATING**















**Keys to Problem**

* **Team must follow contaminants while exploring. The team stop map has to be followed**
* **Team must ventilate first barricade in no.2 entry before going to team stop # 9**
* **Team must airlock out of first barricade. Team cannot stop or stall the fan once turned on**
* **Team must use no.2 entry to enter and exit the mine**
* **Team must remain airlocked after first vent. Air can be pulled from caved area in no.1 entry or air can migrate if an entry is left open with a path going to the fan**
* **Team must make team stop # 12 before venting the barricade between 1 and 2 entry**

* **Team must put carevent or SCSR with goggles on patient if team takes patient through crosscut where smoke has not cleared (possibly in crosscut with lunch box in unsafe roof)**

**Please circle change to Fan or Fan Door**

**Fan on Fan Door Open Fan Door Closed**

**Superintendent Initial’s \_\_\_\_\_\_\_**

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