

Legend

- **Equipment** – The make and model of the device(s) whose function is being demonstrated
- **Test Site** – provide a unique reference code to the attached diagram (unique select three letters that will be unique to your company insert hyphen then 6 digit date insert hyphen then a unique letter for that test example ABC-051607-A)
- **Comm Type** – what type of communications used between the miner and the system that allows communications to the surface
- **Distance from backbone** – provide the demonstrated distance between the miners and the first component of any system that allows the two-way communication with the surface communication center
- **Height** – what is the height of the entry or crosscut noting
- **Width** – what is the width of the entry or crosscut
- **Scenario** – relevant demonstration scenario number from list below (if not one of the standardized scenarios a description is required) (not all may be relevant to all technologies)
- **Notes** – any thing you feel are relevant for understanding
- **SIO Score** – this is a relative communication quality score (displayed as S#, I#, O#) (see “Reporting the Quality of Communications in Underground Mines” on the WV OMHS&T web site for further explanation)

Signal Strength Interference of any type Overall Quality

5-Excellent	5-No interference	5-Excellent
4-Good	4-Very slight	4-Good
3-Fair	3-Moderate	3-Fair
2-Poor	2-Heavy	2-Poor
1-Useless	1-Extreme	1-Unusable

- **Distance from comm.-Center** – provide the total distance from the point where the miner’s communication entered any backbone systems and the communication center on the surface
- **Number of Amps/Nodes Comm-Center** – provide the number of powered components required between the device reading the tag and signal tracking device and the surface

Process Notes:

This demonstration assumes that all backbone equipment has ceased to function. It can not require the function of any devices other than the ones the miners carry with them.

1. An entry or crosscut with an axis that allows for uninterrupted line-of-sight
2. An entry or crosscut with an axis that has a curvature which precludes line-of-sight
3. An entry or crosscut with an axis that contains a belt noting belt width & placement

4. An entry or crosscut with an axis that contains a metal overcast
5. An entry or crosscut with an axis that contains a wire-mesh roof
6. An entry or crosscut with an axis that is blocked by stopping noting type
7. An entry or crosscut with an axis that has a power line parallel to path of transmission
8. The effectiveness to transverse one or more coal pillars