

CONSPEC AMS SYSTEM

Presented to Technical Study Panel
for Utilization of Belt Air



Conspec Controls, Inc.

- Founded 1968
- Facilities in PA, CO, China, & Australia
- Manufacture product in PA
- R&D and Customer Support in CO

Conspec Market Share

- Systems installed in 26 of the 39 most productive mines during 2006
- 41 total Conspec AMS systems installed in underground coal mines
- Production has increased over 100% since 2003



Conspec and System Integration

- Ethernet over Fiber Optic Cable
- Uses off the shelf software
- Allen Bradley, Intellution, Wonderware, ...
- Universal Interface will convert Conspec Protocol to modbus



Conspec New Products

- Blue Outstation
- IR Methane
- Photoelectric Smoke Monitor
- Vehicle and Personnel Tracking System



Conspec Smoke Monitors

- MSHA Approved P2319 CO/Smoke Monitor
- Smoke Monitor uses Ionization Sensor
- Ionization sensor looks for change in electrical conductivity across detection chamber
- Can respond to smoke that can be invisible to the human eye



Conspec System Reliability

- Steps to limit Nuisance Alarms
 - P2512 CO/NO Diesel Discriminator
 - P2030-KP-SP Hydrogen Compensated CO monitor used around battery charging stations
- Fail Safe Features



System Reliability Continued

- 24 Hour Service
- On-Site Service and Training
- Average product turn around time is 10 days



Conclusion for Conspec AMS

- A customer driven R&D company
- Continue to keep up with other technology
- Customer needs to fully understand how to maintain the system