

Group 3 Discussion Notes:
Leader: Gary Sorenson

Safety Items:

Josh McLaughlin- Buckskin Mine

MSHA is checking Under Voltage function on all portable and mobile equipment. Some systems were designed with a shunt trip that would trip the breaker after a power up on under voltage. But the breaker would stay closed when powered down.

Brent Elliott- Rawhide/Caballo Mine

Peabody is implementing a glove policy requiring cut resistant gloves, and voltage rated gloves. Other policies concerning confined space entry are being formalized.

Brent Elliott- Rawhide/Caballo Mine

Discussed FR clothing for electricians. Discussion lead to requirements for Vendors and a policy. No policy exists at this time with his location.

Rick Raczak- Cat

Inquired about the challenges of implementing Arc flash labeling and DC standards on mobile equipment.

Josh Liggett- MES

Discussed lighting maintenance problems with current fall protection standards implemented at mines. Some system redesign is required to provide safe access to many installations.

Craig Russell- Cloud Peak Energy

CPE is working on remote racking of MV breakers to protect personnel from arc flash hazards.

New Innovations and Technology:

Josh McLaughlin –Buckskin and Brent Elliott- Caballo/Rawhide.

Are installing LED lighting. The light quality is great and the products have proven reliable.

Travis- Symcom discussed some of the LED lighting products his company provides.

Zack Walz- Coteau

Replacing SLC PLC's on two 2570 draglines with Controllogix PLC's. Machines will go from 4 SLC processors to a single Controllogix processor. They are also installing direct drive lube circulating pumps driven by VFD's to improve the reliability and flexibility of the lube circulating system.

Ross Langer- Flanders Electric

Discussed the Oil-Cooled to Air Cooled converter upgrades on 2300 shovels that Flanders is installing on Cloud Peak Energy's fleet of shovels.

Sunny Srinivasan- Manga IV Engineering

Discussed the capabilities and importance of testing and how it can help with troubleshooting problems in the future as well as preventing problems.

Gary Sorenson – DCS

Installed a Generator field upgrade on a 1570 implementing 2 regulators per motion. System results in near zero loop unbalance and has the potential to increase machine productivity.

Petris ???- ABB

ABB is working on gearless conveyor drives using. Eliminates gear boxes...

Problems and Solutions:

Josh Liggett- MES

Performing relay retrofits to upgrade disk relays to solid state relays.

Josh also mentioned the problem of high turn-over/retirement rates in the industry resulting in a lack of experienced personnel in the field.

Sunny Srinivasan- Magna IV

Talked about IR Scans and the importance of collecting Base Line scans to use to improve the usefulness of the technology while troubleshooting.

Future Meeting Topics:

Craig Russell- Cloud Peak Energy

Would like to see a presentation on the dual drive-zero current unbalance drive system installed at Lee Ranch mine.

Entire Group

Discussed a Tuesday or Wednesday training seminar provided by??Vendors or Miners. This has been done in the past by DCS, Flanders, and Bucyrus.

Future Locations:

Canada

Denver

Cripple Creek CO to attract other mining operations to participate.

Group Signin:

Craig Russell- Cloud Peak Energy

Rick Raczak- Cat Electric Power

Brent Elliott- Peabody

Zack Walz- Coteau

Ross Langer- Flanders Electric

Travis Brimmer- EMS/ Little Fuse

Joshua Brimmer- Kiewitt/Buckskin

Ryan Sernecky- Westmoreland Coal

Josh Liggett- Mining Electrical Services

Sunny Srinivasan- Magna IV Eng.

Petris- ABB