

WEMA Group Discussion Group #3 Denver – May 2013

Sign in Sheet

Rick Crouse	Thunder Basin – Arch Coal
Tim Reece	Motor Wise
Bob Pearson	Usibelli Coal
Terry Reader	Climax Moly – Freeport McMoran
Ernie Flippo	WESCO – Denver
Jeff Glenney	Startco
Don Patterson	Drives and Control Services

Safety:

Rick Crouse - Thunder Basin Mine / Arch Coal

In the process of searching for a fault in a 25kV cable fault in the tub on a dragline, the electrician failed to discharge the cable.

The technician received a small shock that could have been prevented by using a hot stick and grounding the cable and following the mine procedure.

Bob Pearson - Usibelli Coal

Trailing cable handling procedures in general need to be reviewed and followed.

Terry Reader - Climax Moly

Challenged with training inexperienced electricians / miners new to the industry and unfamiliar with procedures.

Rick Crouse - Thunder Basin – Arch Coal

He has had good luck with the arch “SABER” program driven from the electrician up with no penalties.

Group 3

New innovations and technology:

Jeff Glenney - Startco

Ground Fault Relays

GFCI for 240 volt 3/phase 100 amp applications

Meets UL 943C

Tim Reece - Motor Wise

MOTORWISE is an AC motor controller used to manage and optimize the power delivered to electric motors through synchronization to great efficiencies in operation.

Soft start capacity.

Terry Reader - Climax Moly

Wrap around drives – “the mill is the motor” – use at his plant – so far so good.

Don Patterson - Drives and Control Services

Software program used to monitor production efficiency on draglines. The program checks the brakes at the start of each shift.

Problems and Solutions:

Ernie Flippo WESCO – Denver

When are VFD Cables required?

Distance from the drives is a key factor.

Bob Pearson - Usibelli Coal

Grounding innovations - it relates to current requirements.

Future Meeting Topics:

Open Mike

Partial Discharge

MSHA- Overview of inspections / violations at different mines / commodities.

Grounding Standards

Future Locations:

Canadian location