

Group 5 Discussion Notes

Attendees:

Rick Crouse – Black Thunder
Nate Hillerud – Coteau Freedom Mine
Matt Jones – North American Coal
Chris Dschaak – Coyote Creek Mine
Gary Sorenson – Drive and Controls Services
Chris Shihaden – TPC Wire and Cable
Travis Hurm – Cloud Peak Mine

Safety Items:

Rick Crouse – SABER safety program implemented at Black Thunder.
Nate Hillerud – Increased motor platform size on 2570 draglines.
Matt Jones – 8750 PCR. Installed glass doors, painted, and installed LEDs.
Chris Dschaak – Improved guarding on dragline.

New Innovations and Technology:

Gary Sorenson – 7400 upgrade. Static motor field. Sync motor field control. Took from 2 minute cycle to less than a minute.
Nate Hillerud – Converted old 23kV OCBs to new magnetically held VCBs. No battery backup or cap trip device required.
Travis Hurm – Testing of VCBs

Problems and Solutions:

Chris Dschaak – Weld cable 2/0 solution.
Nate Hillerud – Remote resets for draglines.
Gary Sorenson – Historian system for investigations on draglines.
Travis Hurm – Operator heard popping sound, was front house panel, but found with DVR.

Future Meeting Topics:

Nate Hillerud – Relay calibration/coordination
Travis Hurm – Arc Flash mitigation

Future Locations:

Phoenix
Rapid City