

WEMA Group Discussion
Group 2

Participants:

Joel Hendrickson- Cloud Peak Energy
Dustin Emerson- Coteau Properties
Cory Hayes- Americable
Dean Prince- Coal Valley
Dustin Freed- Flanders
Gary Beerline- Cloud Peak Energy
Lyle Roemer- Andritz

Safety Discussion:

- Cloud Peak Energy has been aggressive in implementing arc flash protection at their properties.
 - Remote control & Racking of all 480 volt draw-out breakers
 - Arc Flash labeling and mitigation on all 480 volt breakers and disconnects utilizing help from ESC Engineering.
- Coal Valley Mine is upgrading switchgear to vacuum type ABB breakers and Startco protective devices
- Contractors & Vendors are getting more exposure to Mine industry safety standards which promote more safety habits at home.
- Cloud Peak Energy and Coal Valley have been implementing programs where employees take time before each job to discuss the hazards associated with the work. (Take 5) (Take 2)

New Innovations & Technology

- Antelope is converting the old DC2000 on the 2062 dragline to a more advanced system using Avtron drives.
- Flanders has developed the “Optimum Bank Penetration” system to provide better operator performance on shovels, using load cells to limit the stress and improve the dig cycle.
- Coteau properties has been replacing old ballast lighting with new LED type fixtures that are better able to withstand harsh mine conditions.
- Americable has introduced a non-metal hazardous location cable that has crushing impact resistance, and is available up to 1” size.
- Americable is also supplying industry with cable repair services in selected areas

Problems & Solutions

- Coal Valley properties is utilizing methods of reducing glare in LED fixtures by mixing amber lighting to achieve better color balance.
- Antelope Coal has installed wet duty Phoenix lighting as a solution in their wash bay lighting change-out.
- Discussed the importance of installing certain light fixtures such that they are more accessible to maintenance and trouble shooting.
- Coal Valley has had success with Induction lighting fixtures in some areas and they carry a 10 year warranty
- Andritz has been doing work in harmonic filtering for various applications.

Future Topics

- Arc Flash Mitigation
- Craig Russell was nominated to give a presentation on the 2060 dragline upgrade at Antelope Coal.
- Proper cable handling and its benefits
- Mine cable repair techniques
- VFD upgrades and applications
- Power System Analysis

Future Meeting Locations

- Tucson, AZ
- Calgary, Canada