

Group 1 WMEA Group Discussion Date: 11-21-2013 Albuquerque, NM

Blue Group Leader: Monte Wilke **Western Energy Co. Rosebud Mine,** Colstrip, MT 59323
3- 8050 Marions, 1-8200 Marion.... (Sorry, I can't bring myself to call them CAT Draglines.....)

Red Darren Giles (Jiles) **REV Engineering, Fabrication Shop,** Calgary, Alberta, Canada
" Dale Romanko (Roe-Man-koe) **Patton & Cooke** Surrey, BC Canada
" Brian Harris **Line Power Mfgr,** Bluefield, VA
" Lance Toepper (Rhymes with Pepper) **Denver Electric Motor** Denver, CO
" Jeff Glenney **Littelfuse-Startco,** Saskatoon, Saskatchewan, Canada
" Don Patterson **DCS, Drives and Controls Services,** Tyler, TX
Operations in Australia, West Africa, N&S America...

" Mike Forsyth **Patton & Cooke** Calgary, Alberta, Canada
Blue Dean Jeffrey Prairie Mines & Royalty, Genesee Mine 45 miles West of Edmonton, Alberta, Canada
has 1-8200 Dragline w/ GE &
1-8750 Dragline w/ GE
1-4100C P&H Shovel
1- 191 Marion Shovel w/ 4 legged GE Bridge...
The y ship about 5-1/2 million ton to a Power Plant (9500 btu/lb)
9 in our group 2 miners, 7 vendors

SAFETY ITEMS:

Dean Jeffrey:

An electrician was injured when the cheater pipe on a 3/4" Allen slipped while attempting to loosen a coupling socket head bolt... will give HY-TORQUE a call as per the suggestion from the floor.
Dozer / Truck unintended contact many \$1000's of damage... ways to prevent??? Communications??
Someone in the group suggested... If you lose communication... you don't go in....
Dean mentioned the dragline digs the coal out of the pit and dumps it on the pad to be loaded...
While driving home recently, the car ahead of him was weaving and driving somewhat erratically... as Dean passed him, he looked over and the guy was texting on his cell phone...

Don Patterson:

In Africa... getting caught texting while driving, is a \$500.00 fine... and jail...
New Crane control on a dragline bridge gets knocked off if the hoist isn't centered on the bridge...

Darren Giles (Jiles)

They had an incident w/ a large overhead door ... not up all the way, cab made it thru OK, not body....

Dean Jeffrey:

Mentioned a Fabric door...
Also mentioned how they avoid the frozen bladder that doesn't work on the bottom of their doors... they use a curved formed rubber flashing attached to the face of the entire length of the door... 2- limit switches are attached to the flashing... either limit switch can trip if the flashing contacts an object.... Generally does not freeze down as the bladders attached to the door bottoms would.

??? Metal-Non-metal... Actual resistance of cord ground is required to be recorded????
Mwilke... We measure every cord ground... every month... if 5 ohms or less... OK... Do not record actual.

Mike Forsyth:

Would like to hear more OSHA stuff for Manufacturers.... Future topics....

Darren Giles (Jiles):

A client was being shown around a substation being fabricated for them at their shop. REV Engr... Crew had just moved the circuit breaker house off the skid.... Left skid to take a break... had not flagged the hole left in the expanded metal floor. Client was inspecting the progress of the job... stepped through the hole and fell some 3 feet.... This incident changed some of the precautions they take.... Flagging & barricades now used religiously.

Jeff Glenney:

Hard toed shoes now required.... For example... Lanes marked out where visitors can be... cannot cross.

New Innovations and Technology:

Don Patterson: DCS & Flanders Electric AC Dragline motors.... and drives...
They have 3 completed Dragline conversions running, 1 due 4th quarter next year....

Mike Forsyth: Patton & Cooke Working on a Power Cable Coupler Indicating LED light...
If the coupler is energized... a light will come on that is inductively coupled to the energized coupling.

Jeff Glenney: Startco-Littelfuse; Light sensing Arc-flash relay...
A feeder protection relay that looks at phase currents and voltages... rather than currents alone.
Looks like their MPS relay...

Problems and Solutions... :

Dale Romanko: Short Circuit Ratings of Couplers.... Or if they have short circuit currents go thru them.... How long can they with-stand before failing for example.... (sort of like the 90 degree C rating of Pit Feeder cable???)

FUTURE MEETINGTOPICS:

More OSHA stuff for Manufacturers....

Dean Jeffrey ...Tours etc. with Meeting ... not unlike COSMET... (Extra Day)

Don Patterson... This past summer an errant blast caused extensive damage to a Dragline in Oklahoma...

The back MG-set was knocked forward into the front MG-set... The operator ducked and was missed by fly-rock blasted into the cab. DCS & Flanders were able to get the M-G set replaced and the machine electrically back to work in 3 weeks... Other repairs took longer but the machine was back into service in 6 weeks.

Similarly, Western Energy's errant blast damaged an 8050 Dragline on January 23, 2010. The operators were removed from the machine and the machine parked prior to the blast. Fly-rock and a huge pressure wave blew the back doors off their hinges and onto the M-G sets. Rock and dust got into most of the rotating equipment , the 1000 kva dry type transformer and the Power Control Room. All generators, synchronous motors, the excitors and half the motors were sent to the Bismarck, ND shops for reconditioning and repair. Ice blasting was done to clean the transformer and PCR room. The repairs were done in January... with temperatures below freezing the entire time and at times below zero. Repairs were an around-the-clock operation and the machine was back in operation in 6 weeks.

Don Patterson suggests that a future topic might be the Oklahoma and Montana blasting disasters and the repair...

Future Locations:

Phoenix, AZ

Dallas, TX

Tyler, TX

