

2012-11-15

WMEA San Antonio, TX Group 1

8 People **4 Miners & 4 Vendors**

Group Leader

Monte Wilke Western Energy Co.... Colstrip, Montana

Adam Detillieux Littelfuse Startco Saskatoon, Saskatchewan, Canada

Tracey Fetter DCS Drives & Controls Services Stony Plain, Alberta, Canada

Phillip Granger Cloud Peak Energy Gillette, WY

Jay Koenitzer Helwig Carbon Products Milwaukee, WI

Dean Smith NAC-Sabine Mine (North American Coal) Longview, TX

Micheal Uliana TMEIC (Toshiba-Mitsubishi-Electric) Salem, VA

Lionel Weseen PM&RL – Paintearth Mine Forestburg, Alberta, Canada

SAFETY ITEMS:

**I wish to recognize the employees of Western Energy Company, Colstrip, Montana...
received the Sentinels of Safety Award in 2012 for their 2011 Safety Achievement...
(No Reportable Incidents)**

Arc Flash seemed to be the main topic for the day:

Dean Smith Remote Units by Startco used at the Sabine mine...

Philip Granger Arc Flash relays (Arc recognition) used at Cloud Peak

Also Time delay switching... trips 10 seconds after Pushing the Trip Button...

PGR8800 Fiber Optic Cable... strung through several compartments...

Lionel Weseen 6.9 kV Substation Exploded ???

Question posed...To open Visible Disconnects for working on M-G Sets??? Is Arc-Flash Clothing worn???

Answers from group...

Sometimes Yes.... Sometimes No...,

DC Arc Flash...

Monte Wilke An article in the IAEI International Association of Electrical Inspectors...
Discussed calculations....

Phil Granger Mentions the 2012 70E has DC Arc Flash Tables...

Lionel Weseen They Do Not Allow Oilers to walk between MG-Sets while running...
(Protection from DC Flash-over)

Cameras (remote)

Dean Smith Wireless Cameras... Operators have 8 different views displayed...
Operators especially like Cameras on the Drum...

Startco possible uses of arc sensitive device they have... remote alarm if commutation is bad or a flash-over begins to develop.???

NEW INNOVATIONS & TECHNOLOGY:

Tracey Fetter DCS...Siemens Drive... 6RA80 vs 6RA70... Ethernet built-in... Have 10 in the field...

Social Media:

Jay Koenitzer Helwig Carbon... LINKEDIN ... Members of that group can pose questions... a forum...
An administrator could have control as to who gets in.... so the info is Controlled. WOULD THIS BE USEFUL FOR THE WMEA???

Lionel Weseen Conference Calls...????

Product Tutorials:

Dean Smith Observation... Why is it ??? When you need to find out the finer points of the new device installed just yesterday... You find out the **Product Tutorial** is at least 30 miles away... in the dark... and in the rain... (there really is a (hidden) fuse protecting the pilot wire only). How about an **INFO-STICKER** included with the device with basic instructions & Information. To be attached in a conspicuous place next to the device for the electrician that missed the tool-box describing how wonderful the new device is and how much downtime it will save...

PROBLEMS & SOLUTIONS:

Lionel Weseen Swing Motor bearings and Gear-box bearings.... They had a swing shaft on a dragline break next to the pinion... Upon repair... ..they noticed the motor had a ticking when running.... Decided to remove motor and have a Bearing Analysis done...They found bearing damage resulted from the broken swing shaft... Investigating the motor saved them much more costly repairs than had they not checked.... They went back into the swing gear case and found similar damage to the rest of the bearings... Net result was great savings realized by disassembly and checking... Also found a bearing locked to a shaft...

Phil Granger An annual dragline boom suspension cable X-Ray revealed that in 6 months the number of broken wires went from 18 to 49 broken strands.... Boom was immediately lowered to change suspension cable. 5 years life; normal is 7 or 8 years... Moral of the story... do the testing... do not change boom suspension on time only...

Adam Detillieux Trouble hooting a neutral grounding resistor problem....
The neutral grounding resistor monitor indicated the grounding resistor was changing in resistance value.... Resistor looked OK....Discovered the wire going to the Isolation resistor from the monitor was corroded and in fact bare.... Resulting in the changing readings.

Speaking of Resistors:

Phil Granger Haul Truck Dynamic Braking Resistor... Truck would Free-Wheel.... Scared the crud out of operators trying to stop truck... Found a Dynamic Resistor was wired wrong....

FUTURE MEETING TOPICS;

MichaelUliana Shared Websites...
(3rd Party Websites)... WEB-X... Webinars... training or another way
to exchange ideas as to problems and solutions

Dean Smith Don't be surprised, when 30 miles from the book in the middle of the
mine.... The factory guy gets a call to go over the new upgrade....

FUTURE MEETING SITES:

Somewhere in Canada.... Or if Montana, Wyoming & North Dakota secede...(to say
Alberta...)

Then still somewhere in Canada... Tracey Fetter says he will take us...