

In the Matter of:)
)
PUBLIC MEETING)
)
REQUEST FOR INFORMATION:)
SAFETY IMPROVEMENT)
TECHNOLOGIES FOR MOBILE)
EQUIPMENT AT SURFACE MINES,)
AND FOR BELT CONVEYORS AT)
SURFACE AND UNDERGROUND)
MINES)

Date: September 25, 2018

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MINE SAFETY AND HEALTH ADMINISTRATION

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BEFORE: KEVIN STRICKLIN, Chair
WILLIAM FRANCAERT, Member
TIMOTHY WATKINS, Member

MEETING: Tuesday, September 25, 2018

LOCATION: Room 7W202
Mine Safety and Health
Administration (HQ)
201 Twelfth Street South
Arlington, Virginia 22202

PARTICIPANTS: Todd Bosik
Stephen Lee
Hunter Prillaman
Steve Davis
Stephen Robuck

I N D E X

PRESENTATION	PAGE
By Mr. Stricklin	3
By Mr. Bosik	13
QUESTIONS FROM AUDIENCE	23
CONCLUDING REMARKS	27

1 I'm also the Acting Administrator for Metal and
2 Nonmetal. I want to welcome all of you here today.
3 As you can see, I'm going to read this opening
4 statement to all of you. And then we'll open it up.

5 Thank you for your attendance and
6 participation. I will be the moderator of this public
7 meeting to gather information about safety improvement
8 technologies for mobile equipment at surface mines,
9 and for belt conveyors at surface and underground
10 mines.

11 On behalf of Assistant Secretary of Labor
12 for Mine Safety and Health, David Zatezalo, I want to
13 welcome all of you here. I wouldn't be surprised if
14 David stops up sometime before the end of our meeting
15 as well, to say hello to all of you. He's aware of
16 this going on today. And if his scheduled permitted,
17 he said he would stop up.

18 Let me introduce the other members of the
19 panel here. To my left is Tim Watkins. Tim is the
20 Deputy Administrator for Coal Mine Safety and Health,
21 and to my right is Bill Francart. Bill is the
22 Director of Technical Support.

23 On June 26th of this year, MSHA published a
24 Request for Information seeking data and information
25 on technologies, engineering controls, and best

1 practices that could reduce accidents involving mobile
2 equipment, which includes power haulage equipment and
3 belt conveyors. MSHA is considering these
4 technologies, engineering controls, and best practices
5 that could: 1) increase the use of seatbelts; 2)
6 enhance an equipment operator's ability to see all
7 areas near the machine and warn the operator of
8 potential collision hazards; 3) prevent equipment
9 operators from driving over a high wall or a dump
10 point; and 4) prevent entanglement hazards related to
11 working near moving or reenergized belt conveyors.

12 On July 25th of this year, we announced in
13 the *Federal Register* six public meetings and a
14 webinar. This is the sixth and final meeting
15 soliciting additional comment, data, and information
16 on technologies that can reduce accidents involving
17 mobile equipment at surface mines and belt conveyors
18 at surface and underground mines.

19 Mobile equipment: Mobile equipment used in
20 surface coal and metal and nonmetal mines and surface
21 areas of underground mines is a broad category of
22 equipment that includes bulldozers, front end loaders,
23 service trucks, skid steers, haul trucks, and many
24 other types of vehicles and equipment.

25 Accidents involving mobile equipment have

1 historically accounted for a large number of
2 fatalities in mining, especially in the metal and
3 nonmetal sector. Since 2007, 61 miners have been
4 killed in these types of accidents. MSHA naturally
5 has conducted an investigation of all these accidents
6 and determined that the contributing factors included:
7 no seatbelts or seatbelts not being used; larger
8 vehicles striking smaller vehicles; and equipment
9 operators' difficulty in detecting the edge of high
10 walls or dump points, causing equipment to fall from
11 substantial height.

12 Seatbelts: MSHA examined 38 fatal accidents
13 that occurred since 2007 that involved mobile
14 equipment in which the victim was not wearing a
15 seatbelt. MSHA determined that 35 of these 38
16 accidents -- or 92 percent -- might have survived had
17 they been wearing a seatbelt. MSHA is seeking data
18 and information on engineering controls and best
19 practices, such as those that affect equipment
20 operation in the event the operator does not fasten
21 his seatbelt.

22 MSHA is also interested in engineering
23 controls, such as audible and digital warning devices
24 and best practices that encourage and promote seatbelt
25 use without directly preventing or affecting equipment

1 operation.

2 Large Equipment Striking Smaller Equipment:

3 And the next topic will be large equipment
4 striking smaller equipment. Surface mining vehicles
5 can be several stories tall and have limited line of
6 sight. Since 2003, there have been 23 fatalities
7 caused by a larger vehicle striking a smaller vehicle.

8 In 2017 alone, there were 4 fatalities. There was a
9 fatality at a surface gold mine in Nevada last year
10 that could have easily been 9 fatalities instead of 2.

11 There was a safety director that was taking 8 new
12 employees on a tour of the mine, got close to a big
13 piece of equipment, and that big piece of equipment
14 actually ran over a van.

15 And I guess I can say fortunately to the 7
16 people who lived, but unfortunately to the 2 that
17 didn't, it could have very easily been all 9 people in
18 that van that were killed because of that larger piece
19 of equipment that didn't notice and see the smaller
20 piece and ran the front of that van over.

21 MSHA has found that blind areas around large
22 mobile equipment in which equipment operators cannot
23 see miners, equipment, or structures, contributed to
24 these striking accidents. On our web site -- and it's
25 a presentation Dave gives when he goes around the

1 country -- there is a picture of a big piece of
2 equipment with a lot of little things in front of it.

3 It shows you what the line of sight is and what that
4 big equipment operator actually sees versus what he
5 doesn't see. And it's pretty overwhelming when you
6 look at this picture, the things that are there --and
7 if I were driving that big piece of equipment, I would
8 not be able to see.

9 So, we're seeking information and data on
10 engineering controls such as collision warning
11 systems, collision avoidance system, and best
12 practices that could provide equipment operators
13 better information about their surroundings and help
14 reduce accidents.

15 Again, I don't want to keep talking about
16 what Dave Zatezalo would say if he was here, but if he
17 was, he would say it's pretty tough for me to go buy a
18 new car today and not put the car in reverse and have
19 a TV screen on the dash or a screen on the dash show
20 me what is behind me. And for a little more money,
21 when you put your turn signal on to get into the
22 passing lane, you have a view of what is next to you.

23 And his question will be: when I'm buying these
24 million dollar pieces of surface haulage equipment
25 that are so huge, why wouldn't I just spend \$10,000

1 more or less than \$10,000 to get that same technology
2 in this multi-million dollar piece of surface
3 equipment as I do in a \$20,000 car? It's a good
4 question.

5 And Bill here has had meetings with a number
6 of operators. His folks in Tech Support has them.
7 And I think Dave is going to be talking to him here in
8 the next month or so to just ask them the same
9 question. You know, how hard is it when you
10 manufacture these big pieces of equipment to put that
11 type of technology on?

12 So, that's something we're interested in
13 gathering information about. And naturally, our whole
14 goal in this is to protect miners so they're not
15 seriously injured or killed in these types of
16 accidents.

17 High Wall and Dump Points: Since 2007,
18 there has been 20 fatal accidents in surface coal and
19 metal and nonmetal mines involving bulldozer operators
20 and haul truck drivers who traveled over the edge of a
21 high wall or dump point. We're dealing with a couple
22 of fatalities this year in metal and nonmetal for that
23 specific reason. Where vehicles have just driven
24 straight over a high wall or into an impoundment.
25 And, you know, again there's technology available to

1 give a warning through the GPS system -- I'll give you
2 an example. I played golf a couple of weeks ago. I
3 was in a golf cart. And I'm trying to get as close to
4 the green as I can in this golf cart, and the GPS
5 shuts me off from getting to it. I can't get as close
6 as I want to get.

7 Why can't we use that same technology? We
8 can do it in a golf cart. Why can't we do it in big
9 haulage equipment to make sure that these trucks don't
10 get as close to the high wall and possibly or go over
11 the highwall? So, we know technology is there. Can
12 we get manufacturers and operators to convince
13 themselves that this will be good technology for us to
14 put on haul trucks around dumping points?

15 MSHA also seeks data and information on
16 other devices that provide visual, audible, or other
17 signals, and best practices that warn equipment
18 operators of hazards in their locations.

19 Belt Conveyors: Since 2007 -- this is belt
20 conveyors now. Since 2007, there have been 17
21 fatalities related to working near or around belt
22 conveyors of which 76 percent were related to miners
23 becoming entangled in belt drives, belt rollers, and
24 discharge points.

25 MSHA has found that factors that contributed

1 to entanglement hazards include inadequate or missing
2 guards, inadequate or insufficient number of
3 crossovers in strategic locations, and inappropriate
4 lock out/tag out procedures. Coal had 5 fatalities
5 last year, I believe, and metal has 1 that just
6 occurred in the Northeast District -- in Pennsylvania
7 -- not too long ago of miners becoming entangled in a
8 belt.

9 MSHA is interested in data and information
10 on systems that can sense a miner's presence in
11 hazardous locations, ensure that machine guards are
12 properly secured in place, or ensure machines are
13 properly locked out and tagged out during maintenance.

14 Training and Technical Assistance: MSHA is
15 also seeking information from stakeholders on best
16 practices, training materials, policies and procedures
17 that may improve safety in and around mobile equipment
18 and working near belt conveyors. MSHA seeks
19 information on how training can increase seatbelt use
20 and improve equipment operators' awareness of hazards
21 at the mine site.

22 MSHA also seeks suggestions on how training
23 can ensure that miners lock and tag conveyor belts
24 before performing maintenance work.

25 This meeting will be conducted in an

1 informal manner. The panel may ask questions of a
2 speaker. And you in the audience can ask questions of
3 us three as panel members. We'll ultimately make
4 available a verbatim transcript of this public hearing
5 -- public meeting approximately two weeks from now on
6 our web site. You can view the transcript of this
7 public meeting as well as the other public meetings
8 and comments on our website at msha.gov and on
9 regulations.gov.

10 You may also submit additional comments
11 using one of the methods identified in the Addresses
12 Section of the Request for Information. That's from
13 our web site. If providing comments, please provide
14 the specific information and supporting rationale for
15 your position.

16 MSHA also requests data and information on
17 the cost, benefits, and technological and economic
18 feasibility of the engineering controls. Also, MSHA
19 wants to hear from you on suggestions or examples of
20 best practices for keeping miners safe around powered
21 haulage equipment.

22 All comments must be received by Monday,
23 December 24th. You can also view all the other
24 comments that people have given to us on
25 regulations.gov or the agency's website, www.msha.gov,

1 and select the link for regulations. You can also
2 comment on the comments that are on our website that
3 people have submitted. So, I encourage anybody who is
4 thinking about submitting some to look that over, see
5 if there is something of interest to you, and use that
6 as well as your own comments to give us your thoughts
7 on it.

8 Tim, do you have anything you'd like to add?

9 MR. WATKINS: No. I'm good.

10 MR. STRICKLIN: Bill, is there anything you
11 would like to add?

12 MR. FRANCAERT: Not at this point.

13 MR. STRICKLIN: If you have a copy of your
14 testimony or presentation, please give a copy to the
15 court reporter so it can be appended to meeting
16 transcripts. When you -- if you are making a part of
17 the presentation, I ask you to come to the front and
18 speak clearly into the microphone, giving your name,
19 please spell your name, and -- before you give your
20 presentation.

21 With that, I'd like to ask Todd Bosik to
22 come up to the front and give a presentation.

23 MR. BOSIK: Good morning, everybody. My
24 name is Todd Bosik. I'm the Director of Sales for
25 Schroth Safety Products. A bit of a background on

1 Schroth. We're a seatbelt company in aviation,
2 military, and racing sectors for -- since seatbelts
3 were invented. Today we're here to -- we've actually
4 attended many of the stakeholder meetings -- in fact,
5 we've attended all of the stakeholder meetings -- to
6 present our new capability on taking best-in-breed
7 automotive seatbelt technology and use it -- and
8 really point it to enhance some of the requirements
9 you guys have outlined in your request.

10 So, as we've heard and as stated,
11 statistically there are a lot of injuries and
12 fatalities that are related to vehicle usage in mines.

13 A lot of the problems stem from, you know, either the
14 seatbelt is not being worn or the seatbelt is,
15 perhaps, too loose for the occupants. So, what we're
16 here to do is to demonstrate -- and I have a small
17 video of what this product looks like. We're here to
18 demonstrate what we could do as a potential
19 augmentation of an existing vehicle.

20 (Pause.)

21 (Asides.)

22 IT GUY: The sound is not getting pushed
23 out. I apologize.

24 MR. BOSIK: So, looking -- while the video
25 loads up. We've got the requirements that were stated

1 in your request. One of the challenges is --

2 (Video plays.)

3 MR. BOSIK: Sorry. We just have no video.

4 (Video plays.)

5 MR. STRICKLIN: Let's go off the record for
6 just a second.

7 (Off the record.)

8 MR. STRICKLIN: Ready? Back on the record.

9 (Video plays.)

10 MR. BOSIK: So, that gives you a bit of an
11 overview of what the capabilities are. Again, this is
12 a little bit of the statistics behind, you know, why
13 we're here. Obviously, injuries happen. Injuries
14 happen in a number of different vehicle types. It's
15 not just limited to one specific vehicle type. So,
16 it's important for us, from a development perspective,
17 to have a product that can be used across the fleet.

18 Taking our lead from the MSHA requirements,
19 adding something that's a high-visibility seatbelt
20 material was important. So, switching a black and
21 putting high-vis red or orange was something that we
22 developed. Having the ability to integrate that with
23 some sort of warning light or audible warning to
24 ensure that the occupant is reminded to wear the
25 seatbelt. Or perhaps even provide some sort of

1 visible warning on top of the vehicle that says, "hey,
2 the occupant is driving down the road, or with or
3 without the seatbelt connected."

4 You know, ultimately, having the right
5 seatbelt will allow the other safety enhancements that
6 are built into these vehicles, the rollover protection
7 systems, to work better. Obviously, nothing is
8 foolproof. But ensuring the occupant wears the
9 seatbelt correctly, ensuring that it's comfortable,
10 and then ensuring that it prevents flailing is a large
11 portion of enhancing the safety.

12 One of the things -- we've worked with --
13 one mine, Peabody Industries -- I'm sorry, Peabody --
14 over the last few years, we've done a quick
15 implementation on some of their vehicles. We did it
16 with a couple of trucks. In fact, where the 3 trucks
17 that we developed this system for and that was back in
18 2016. They actually won a NIOSH safety award with
19 this product and this implementation as an innovative
20 safety enhancement.

21 So, what, you know, the conclusions were --
22 and these were sort of taken from the end-user group.

23 During a rollover event, a driver can be tossed --
24 I'm just reading from the slide now, of course --
25 violently in a cab, even with their restraints from

1 their traditional black belt. And this can still lead
2 to injury.

3 So, obviously, having a three-point belt
4 similar to what you have in your current automobile is
5 an advantage from a safety perspective. Although, you
6 know, admittedly it's a pain and nobody wants to wear
7 it. So, making it more comfortable, more user-
8 friendly, is also helpful. And these are some
9 testimonials from Peabody. "We've had employees
10 injured for not being properly secured to their seat
11 during a rollover or other type of event. Many of our
12 machines still have two-point belts, which allow an
13 employee to be tossed around the cab during these type
14 of events." And, "equipment operators have little or
15 no warning that an event may occur."

16 So, obviously -- and what you saw in the
17 video was that we've done a number of things. And the
18 next slide will talk a little bit about what we've
19 done to sort of align ourselves a little bit with some
20 of the thrust.

21 So, starting off, we're taking a motorized
22 seatbelt. And that's a differentiator. There are
23 other technologies out there that use an explosive
24 driving system and they're designed to be a one-time
25 use system to take the slack out of the seat -- which

1 answers one of the concerns, right? Having flailing
2 injuries is a concern. So, removing that slack is
3 achievable.

4 In our case, what we've done is we've
5 converted our seat into high-visibility safety orange.

6 We have an interlock in our seatbelt that every time
7 that seatbelt is clicked in, we have a data-logging
8 capability. So, that can be tied into the vehicle
9 data log to review operator usage. It could be used
10 to, you know, send a signal to turn on a light on top
11 of the vehicle that says, that vehicle -- you know,
12 the occupant is driving, the operator is driving, with
13 the seatbelt engaged. Or it could be the opposite.
14 We could tie it actually into the vehicle to make sure
15 that the vehicle doesn't move unless the seatbelt is
16 clicked in.

17 So, that's, you know, one of the small
18 things that we've done with this. The reality is,
19 with the enhancements and sensor technology, all of
20 that stuff could be data-linked, could be sent out to
21 a central control area where you could monitor health
22 monitoring, seatbelt usage of all of the occupants
23 throughout -- all of the users throughout your
24 complex.

25 The other thing that we've done is we've

1 provided this haptic response. So -- and it's
2 configurable. As the vehicle starts to approach
3 critical rollover positions, we provide that little
4 tugging on the seatbelt that reminds the occupant
5 you're getting to that hairy, dangerous point. And
6 that's configurable. Obviously, different vehicles
7 will have different rollover points. And we do that
8 in both front, back, and left-right. And I guess we,
9 sort of, finally then -- in the event of an actual
10 rollover, one of the things you want to do is make
11 sure that the occupant is completely snugged up into
12 the seat. And so, we take all the slack out of the
13 seat and do a hard pull, as we call it.

14 From an integration perspective, we're
15 working closely with a few seat vendors who currently
16 have our system installed. So, what we're doing is
17 we're proposing to have a built-in solution to provide
18 fleet owners the opportunity to either swap them out
19 through attrition -- you replace the seat every couple
20 of years anyway. Why not put in a seat with these
21 enhancements? You know, or, you know, heck, go ahead
22 and replace them all. I'm okay with that, as I say
23 with a smile.

24 Bottom line is, in summary, it's ready for
25 use now. This is not a science fair project. It's an

1 off-the-shelf capability that we have today. It was
2 awarded a NIOSH award. Our facilities are located
3 here in Pompano Beach, Florida. We also have some
4 capabilities over in Germany. So, we can support this
5 from a worldwide perspective.

6 To summarize, the Peabody efforts right now,
7 we're looking at some initial development and
8 installation phase with them. They're our early
9 adopters. And for any of you who have colleagues
10 there, you know, we can help reach out to them as
11 well.

12 And as an aside, in the week of October 8th
13 through 10th, we will be here in Washington, D.C.
14 attending the annual AUSA exposition. So, if anybody
15 wants to come see that technology, we'll actually have
16 it on display. And that's all I have to say.

17 Any questions? Yes, sir.

18 MR. ROBUK: I did want to ask --

19 MR. STRICKLIN: Steve, could you please give
20 your name and --

21 MR. ROBUK: Sorry about that.

22 MR. STRICKLIN: -- for the court reporter.

23 MR. ROBUK: Steve Robuk from Portland Cement
24 Association. I did want to ask, have you looked at
25 interlocking the starting of the vehicle to the

1 clicking of the seatbelt?

2 MR. BOSIK: Yes. So, certainly, you know,
3 we have a dry contact. So, ultimately, that
4 capability is there. And, you know, our position is
5 to enable the end user to decide how they want to use
6 that interlock. You know, whether it's a training
7 device, whether it's a, hey, we looked at your -- you
8 know, your usage last week, and you only had it
9 connected it for 2 out of your 18 hours. That's not
10 acceptable. All the way up to the vehicle doesn't run
11 unless you have it engaged.

12 Obviously, you know, it's a fairly simple
13 thing at this point to engage that. But at this
14 point, Peabody was not looking to do that. That
15 doesn't necessarily mean that's not in the best
16 practice. But it is certainly a capability; easily
17 done.

18 Any other questions? Yes, sir.

19 MR. DAVIS: Steve Davis from Rio Tinto. I'm
20 just interested to know if you've got a four-point
21 version of this or you're looking at it?

22 MR. BOSIK: We indeed have a four-point.
23 It's more of a yoke device. You know, we do five-
24 point harnesses as well. I mean, ultimately, to try
25 and convert people from a two-point to a three-point

1 is a big push. But certainly we can provide you with
2 a four-point capability as well. Having four motors
3 or two motors will add a little bit of cost and
4 testing (phonetic). But it's technically very
5 feasible and readily done.

6 MR. DAVIS: Okay.

7 MR. BOSIK: Anything else?

8 OPERATOR: Would you like to take questions
9 from the phone lines?

10 MR. STRICKLIN: Yes, we would.

11 OPERATOR: Thank you. On the phone lines,
12 if you'd like to ask a question at this time, just
13 press star-1 and record your name clearly. Begin with
14 star-1 if you have a question on the phone line. And
15 one moment, please.

16 (Pause.)

17 OPERATOR: And at this time, I'm showing no
18 questions on the phone line.

19 MR. STRICKLIN: Thank you. And thank you,
20 Todd.

21 Is there anyone else in the room or on the
22 phone that would wish to make a presentation this
23 morning or discuss any subjects that were associated
24 with our presentation today?

25 OPERATOR: And again, just press star-1 to

1 have your phone line opened.

2 (Pause.)

3 MR. STRICKLIN: Okay. There doesn't appear
4 to be any. So, again I would like --

5 OPERATOR: We do have one. Sir, I
6 apologize. We do have one. I actually have two on
7 the phone lines that came in. I'll open up the first
8 line. It's from Hunter Prillaman. You may ask your
9 question, and spell your name and state your question.

10 MR. PRILLAMAN: Hi. This is Hunter
11 Prillaman from National Lime Association. I just
12 wanted to thank you for this process. The only
13 comment that I would like to make -- it's not really a
14 question -- is that we've been looking at this
15 technology for a while. Our members are reviewing it
16 and we'll certainly have full comments. But the thing
17 to be sure of is, whatever technology is chosen, that
18 it will work properly in the varied mine environments
19 in metal and nonmetal, and that they'll be -- that
20 there needs to be sufficient testing and review.

21 So, I think that the concept -- the concept
22 is good, and we recognize a lot of the problems. It's
23 just that we want to make sure that the practical
24 application will work. And thanks for the opportunity
25 to comment.

1 COURT REPORTER: I'm sorry. What was his
2 last name?

3 MR. STRICKLIN: Hunter Prillaman,
4 P-R-I-L-L-I-M-A-N.

5 MR. PRILLAMAN: It's A-M-A-N. Sorry about
6 that.

7 MR. STRICKLIN: A-M-A-N. And, Hunter, we do
8 appreciate you -- your comment, and naturally, that's
9 on the record, and thank you.

10 MR. PRILLAMAN: Thank you.

11 OPERATOR: Thank you. Our next person is
12 Stephen Lee. You may ask your question and please
13 state your name.

14 MR. LEE: Hi. It's Stephen Lee. I'm with
15 Bloomberg Environment. Thank you for convening this
16 meeting today. I had a question about, you know, the,
17 sort of, going forward. What is the likelihood of
18 MSHA giving a regulation? I mean, is it -- do you
19 have any sense at this point as to, you know, whether
20 that is going to happen? Or is there going to be just
21 guidance, sort of, best practices? Are you able to
22 give any sense at this time?

23 MR. STRICKLIN: Everybody is holding their
24 breath right now. But that was humor. No. We do not
25 have any sense of that. You know, our goal right now

1 is request for information and gathering
2 information -- just like the gentleman spoke of the
3 seatbelts -- and sharing that information with the
4 public. And I guess if we had a goal, it would be to
5 decrease the number of fatalities that have occurred
6 because of these three subjects. And if we can do
7 anything to share information, to gather information
8 that would help to reduce it, that's our goal in this.

9 At one of our previous meetings -- and it's
10 on the record. His name is Mike Peelish. Mike worked
11 for Cyprus Coal. And in 1991, we went through the
12 same process. There was a big equipment hitting
13 smaller equipment, killing miners. And we promoted
14 the idea of best practices, putting in on cards,
15 sharing it with miners. MSHA did, operators did. And
16 that may be what comes out of this RFI.

17 This is not meant to intend that there is
18 regulations forthcoming. So, the short answer,
19 Steve -- Stephen, is no, I cannot give you any date of
20 regulations coming. And I cannot even tell you that
21 regulations will come.

22 MR. LEE: Thank you.

23 OPERATOR: I'm showing no further comments
24 or questions on the phone lines.

25 MR. STRICKLIN: Okay. Thank you very much

1 on the phone. We do have a question in our audience
2 here in person.

3 MR. ROBUK: This is Steve Robuk again from
4 Portland Cement Association. I was actually going to
5 ask virtually the same question, and that is: how do
6 you guys see this process moving forward? What will
7 you do with all the data? You're gathering quite a
8 bit of information with the public meetings and
9 gathering of comments. And so, how will you use that
10 information?

11 And you've answered that. But I don't know
12 if you've got any other comments on that.

13 MR. STRICKLIN: And I really don't. I mean,
14 we have our friends from NIOSH back here with us that
15 have sat in on this meeting. They've come to our
16 other meetings. I would think if we can gather enough
17 steam from this type of thing, our next thing may be
18 to have some type of conference where we all get
19 together again and try to come up with best practices,
20 besides gathering this from all of you, sitting down
21 again, and sharing best practices with everyone.

22 Again, our goal in this -- and I'm sure the
23 mine operators' goal -- is to decrease the chance of a
24 fatality through any of these things. And so, if we
25 were ever to consider regulations, naturally that

1 would be something we would publicize in the *Federal*
2 *Register*; get input again from people. But at this
3 stage, that is not on the drawing board.

4 Any other questions or comments from anyone?

5 (No response.)

6 MR. STRICKLIN: Before I close it out, Tim,
7 you got anything to add?

8 MR. WATKINS: I do not.

9 MR. STRICKLIN: Bill, do you have anything
10 to add?

11 MR. FRANCA: No.

12 MR. STRICKLIN: Okay. Again, I want to
13 thank everyone for attending this meeting. I want to
14 emphasize that we need your comments by December 24th.
15 We will take all of your comments and concerns into
16 consideration.

17 Before this meeting concludes, I wanted to
18 mention that Executive Order 13777, Enforcing the
19 Regulatory Reform Agenda, directs each federal agency
20 to evaluate existing regulations and make
21 recommendations regarding their repeal, replacement,
22 or modification consistent with applicable law. As
23 part of the evaluation, E.O. 13777 requires each
24 agency's regulatory reform task force to seek input or
25 other assistance as permitted by law from entities

1 significantly affected by federal regulations.

2 In compliance with the executive order, on
3 October 23, 2017, MSHA posted a regulatory reform
4 email address on the agency's website for stakeholders
5 to send recommendations on existing rules,
6 regulations, and standards that could be repealed,
7 replaced, or modified without reducing miner safety or
8 health. MSHA again requests stakeholders review the
9 existing comments on the repeal of regulations --
10 that's on our website -- and give you the opportunity
11 to comment on them.

12 Please identify that comment and provide
13 specific information, including any empirical evidence
14 and data, to the extent possible, to support your
15 position on whether or not you support the commenter's
16 proposal. MSHA considers early public participation
17 in the regulatory reform process to be particularly
18 important. MSHA expects that stakeholder comments
19 will initiate public dialogue and assist the agency in
20 its review and assessment of existing requirements on
21 how best to minimize regulatory burdens on mine
22 operators without diminishing protection afforded
23 miners under the Mine Act.

24 At this time, I want to thank all of you
25 very much, and this concludes our stakeholder meeting.

1 (Whereupon, at 9:44 a.m., the meeting was
2 adjourned.)
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REPORTER'S CERTIFICATE

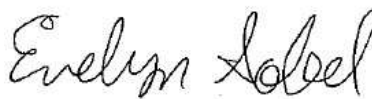
CASE TITLE: Request for Information: Safety
Improvement Technologies for Mobile
Equipment at Surface Mines, and for
Belt Conveyors at Surface and
Underground Mines

MEETING DATE: September 25, 2018

LOCATION: Arlington, Virginia

I hereby certify that the proceedings and
evidence are contained fully and accurately on the
tapes and notes reported by me at the meeting in the
above case before the United States Mine Safety and
Health Administration.

Date: 10/1/18

A handwritten signature in cursive script that reads "Evelyn Sobel".

Evelyn Sobel
Official Reporter
Heritage Reporting Corporation
Suite 206
1220 L Street, N.W.
Washington, D.C. 20005-4018

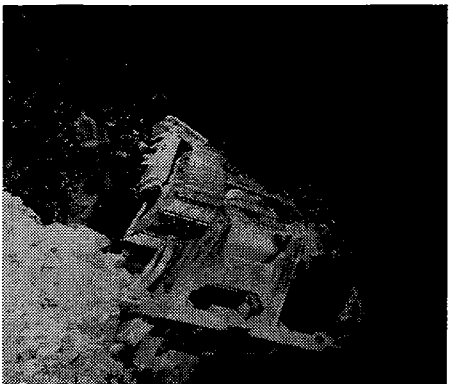
Heritage Reporting Corporation
(202) 628-4888

**Safety Improvement Technologies for Mobile Equipment at
Surface Mines, and for Belt Conveyors at Surface and
Underground Mines
Public Stakeholders Meeting
September 25, 2018
Linda Raisovich-Parsons
Deputy Administrator, UMWA Department of Occupational
Health and Safety**

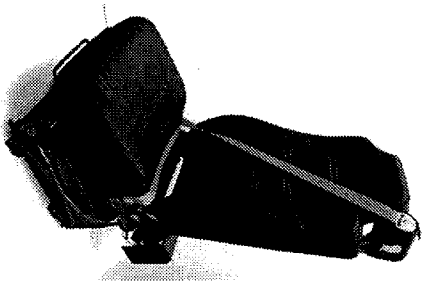
Good morning/afternoon. My name is Linda Raisovich-Parsons and I am the Deputy Administrator for the United Mine Workers Department of Occupational Health and Safety. My testimony today will be short and to the point to offer support for MSHA's efforts to introduce new technology that may be of benefit in protecting miner's lives. The Union has long been an advocate for incorporating new technology into the workplace that may provide protection to our miners. We are anxious to hear from manufacturers and see the new technologies that are available to improve protections in the workplace. Hazards around mobile equipment and belt conveyors have long been a major source of accidents and fatalities. MSHA points out that since 2007, 61 miners have been killed in accidents involving mobile equipment. During that same period there have been 17 fatalities related to working near or around belt conveyors.

The use of new technologies could go a long way in reducing those numbers.

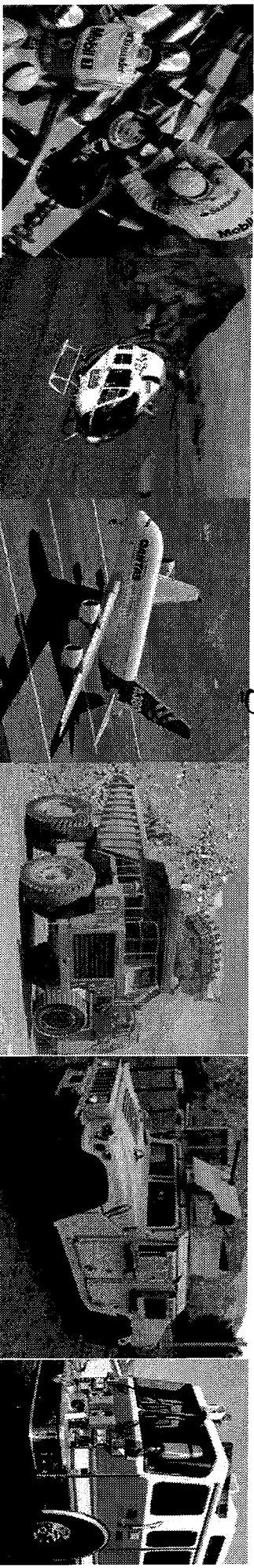
The use of current automobile technologies such as collision avoidance systems, collision warning systems, seat belt warning signals and engineering controls all could add a much needed improvement in preventing these type accidents. We agree that the time has come to incorporate some of these life-saving technologies into the workplace. Therefore, please accept the United Mine Workers blessings and support for this endeavor.



Motorized Seat Belt Off Road (MSB-OR)



Seat Belt Warning and Rollover Protection

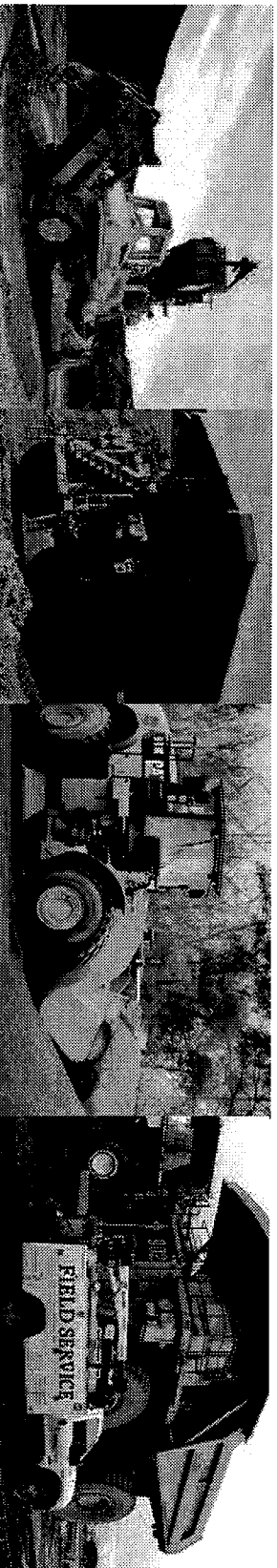


Background- From MSHA

- Mining safety could be substantially improved by preventing accidents that involve mobile equipment at surface coal mines.
- Accidents involving mobile equipment have historically accounted for a large number of the fatalities in mining, especially in metal and nonmetal mines.
 - **In 2017, for example, nearly 40 % of the 28 mining fatalities > 30% of injuries involved mobile equipment.**
 - **Since 2007, 61 miners have been killed in accidents involving mobile equipment.**
- The Mine Safety and Health Administration (MSHA) is taking a number of actions related to mobile equipment to improve miners' safety.
 - **One areas includes the increased use of seatbelts.**
- MSHA has preliminarily determined that mobile equipment operators are more likely to survive rollover and tipping accidents when they are wearing a seatbelt.
- MSHA examined 38 fatal accidents that occurred since 2007 which the deceased was not wearing a seatbelt
 - **MSHA determined that 35 of the victims (92 percent) might have survived had they been wearing a seatbelt.**

Background - From MSHA

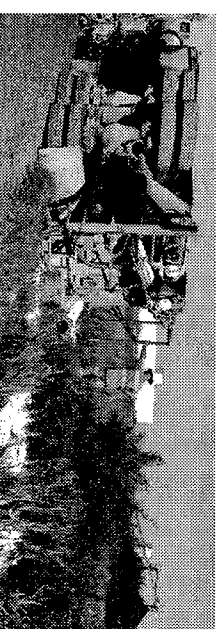
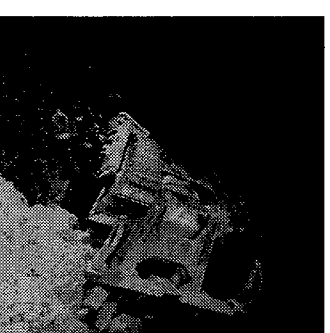
- Mobile equipment used at surface coal mines, surface metal and nonmetal mines, and the surface areas of underground mines is a broad category that includes;



- Bulldozers, front end loaders, service trucks, skid steers, haul trucks and many other types of vehicles and equipment
- Areas of interest include;
 - High-visibility seatbelt materials
 - Warning lights and audible warning signals, that remind the equipment operator to fasten the seatbelt.
 - Additional advancements could promote seatbelt usage by making equipment operation impractical or uncomfortable, or by notifying mine management if the seatbelt is not used (or not used properly).
- MSHA determined that one of the major contributing factors in many of these accidents included:
 - **No seatbelt, seatbelt not used, or inadequate seatbelts;**

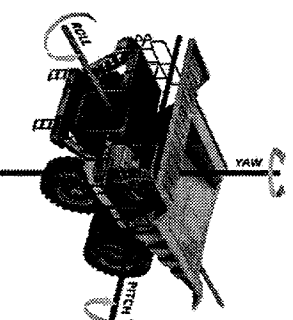
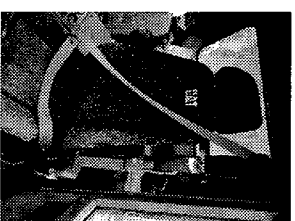
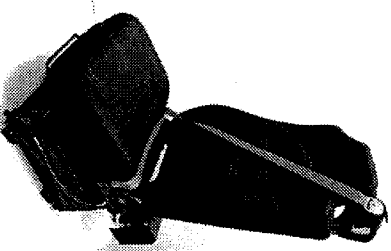
Problem Expanded – Case Study Somerville Complex

- Schroth Safety Products (SSP) has been working with one mining organization since 2016 to look at ways to improve safety with advances in seat belts design and implementation
- The Somerville Complex launched an effort to better restrain drivers in their truck seats after an April 2016 event in which a truck load shifted dramatically, causing one of their haul truck operators to experience a lower back compression fracture.
- Their internal studies came up with the following points
 - “During sudden jolts or rollover events, a driver can be tossed violently in a cab, even while restrained with a traditional lap belt -leaving some drivers with permanent damage”
 - Two point seat belts do not hold a persons body in place during unforeseen events.
 - “We have had employees injured for not being properly secured to the seat during a roll-over or other type of event”.
 - “Many of our machines still have two point seat belts which allow the employee to be tossed around the cab during these type of events”.
 - “Equipment operators have little / no warning that the event may be occurring”.
- Trial occurred with integration into multiple vehicles and Vehicle types
 - Trucks (R190, 785 CAT, and a 777 CAT)
- Trial lead to a NIOSH Award for Mine Safety and health technology Innovations



Solution- Schroth Motorized Seat belt (MSB-OR) Key Features

- Schroth Motorized Seat Belt – Off Road (MSB-OR) Kit is a seat integrated 3-point seatbelt system.
- The MSB-OR is custom engineered for the heavy truck/mining industry.
- Seat Belt Usage Improvements
 - System is designed with **High Visibility-Safety Orange** webbing to be visible from the outside of the vehicle when worn
 - System has a datalogging capability, that can be connected to visible or audible alarms
 - Data logger can be used to track seat belt usage as a training device.
 - Seat Belt feedback could be used optionally to interlock vehicle operation
- Enhancements in Occupant Safety, MSB-OR:
 - Designed to offer a haptic pre-emptive warning for potential rollover events
 - Provides an occupant hard pull back feature to protect the user in case of a rollover event.(removes slack in belt during a rollover)
 - Designed to keep driver/operators safer in the worst kind of crash – a rollover.
- Integration Efforts
 - System can be retrofitted to existing seats or replaced as a drop in replacement seat
 - Bulldozers, front end loaders, service trucks, skid steers, haul trucks and many other types of vehicles and equipment
 - Solution can be integrated into most seat manufacturers Bostrom Seats is currently working with Schroth as an initial partner



Schroth Motorized Seat Belt(MSB-OR)

- The Schroth Motorized Seat Belt –Off Road is Ready for implementation
- System is proven to work in the harsh Mining environment, awarded a NIOSH award in 2017.
- Schroth is a worldwide company with facilities in Pompano Beach, Florida and Arnsberg, Germany providing seat belt systems for many Ground Vehicle, Racing, Military and Aviation programs worldwide.
- Peabody is currently in the budgeting phase for implementation of the MSB for other sites
- Schroth Safety Products will have a sample MSB-OR on display at the upcoming Mining and Exploration Show

Oct 8 – 10 in Washington DC.



Guests can pre-register or register on site.

Here is the registration link- <http://ausameetings.org/2018annualmeeting/registration-information/>

Questions?

For More Information

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