

BEFORE THE
FEDERAL MINE HEALTH AND SAFETY
ADMINISTRATION

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IN RE: MSHA MEETING

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BEFORE: Kevin Burns, Member
Alfred Ducharme, Esquire,
Member
Mario Distasio, Member
Gregory Fetty, Member
Richard Feehan, Member
HEARING: Thursday, October 14, 2010
9:03 a.m.
LOCATION: Omni William Penn Hotel
530 William Penn Place
Pittsburgh, PA 15219
SPEAKERS: Mike Wright, Anthony
Bumbico, James Gallik,
Truman Chidsey, Kelly
Bailey, Louis Barletta, Jr.,
Joe Bourdage

Reporter: Kayla A. Godkin

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1	I N D E X		
2			
3	OPENING REMARKS		
4	By Mr. Burns	5 -	12
5	PRESENTATION		
6	By Mr. Wright	12 -	34
7	QUESTIONS		
8	By Board Members	34 -	42
9	PRESENTATION		
10	By Mr. Bumbico	43 -	64
11	QUESTIONS		
12	By Board Members	64 -	76
13	PRESENTATION		
14	By Mr. Gallik	77 -	99
15	QUESTIONS		
16	By Board Members	100 -	105
17	PRESENTATION		
18	By Mr. Chidsey	106 -	134
19	QUESTIONS		
20	By Board Members	134 -	137
21	PRESENTATION		
22	By Mr. Bailey	137 -	171
23	QUESTIONS		
24	By Board Members	171 -	175
25			

I N D E X (continued)

1		
2		
3	QUESTIONS	
4	By Audience Member	175 - 179
5	PRESENTATION	
6	By Mr. Barletta	180 - 195
7	QUESTIONS	
8	By Board Members	195 - 197
9	QUESTIONS	
10	By Audience Member	197 - 198
11	PRESENTATION	
12	By Mr. Bourdage	199 - 205
13	DISCUSSION AMONG PARTIES	205 - 208
14	CERTIFICATE	209

E X H I B I T S

<u>Number</u>	<u>Description</u>	<u>Page</u> <u>Offered</u>
---------------	--------------------	-------------------------------

NONE OFFERED

1 P R O C E E D I N G S

2 -----

3 MR. BURNS:

4 I'm here to start this
5 hearing. I'm sitting in for Pat
6 Silvey, and obviously I can't fill her
7 shoes, but I'll do the best I can.

8 Good morning. My name
9 is Kevin Burns. I'm manager of the
10 Small Mines Office in EPD, and I'll be
11 chairing this hearing or this public
12 meeting. On behalf of the Assistant
13 Secretary, Joe Main, I want to welcome
14 all of you to this meeting today.

15 Let me introduce the
16 members of the panel. Greg Fetty is
17 sitting here. He's the staff assistant
18 from Coal District 3.

19 And Richard Feehan, he
20 works in the Standards Group. He's
21 working that alone now.

22 Mario Distasio, he's an
23 economist with the standards group.

24 And then I have Al
25 Ducharme. He's with the solicitor's

1 office, and he's helping out with this
2 public meeting.

3 This is the third of the
4 public meetings. We had a meeting in
5 Arlington at our headquarters on
6 October 8th, and we had one in
7 Sacramento two days ago on Tuesday.

8 We're very excited about
9 this meeting and the one that follows -
10 -- or obviously it doesn't follow, I'm
11 reading from last week's script, and
12 viewed them as an important step to
13 help focus on prevention in addition to
14 compliance.

15 This is our opportunity
16 to find out what programs work and what
17 results have been achieved. I hope in
18 meetings and in submitted comments,
19 we'll also learn things that you've
20 tried that haven't produced results.
21 And so people can learn from some of
22 the things that have been tried and
23 have not been successful.

24 We expect to learn from
25 the experience of the mining companies

1 that have implemented effective state
2 programs and also learn what has worked
3 outside of the mining industry. This is
4 an opportunity to focus on prevention
5 efforts, to anticipate and recognize
6 potential hazards, and to control them
7 before they cause injury, illness and
8 death.

9 Some companies have
10 implemented programs to monitor the
11 work environment, whether or not there
12 are specific regulations that require
13 this. They compile information about
14 employee injuries and near misses and
15 respond to the information they are
16 gathering with prevention and focus.

17 As you know, MSHA
18 published a notice in the Federal
19 Register announcing the meetings and
20 requesting the mining community to
21 provide information which the agency
22 could use to develop the proposed rule.

23 The agency has also
24 invited representatives from academia,
25 safety and health professionals,

1 industry and worker organizations and
2 other government agencies to share
3 their experiences and views on
4 effective safety and health management
5 programs.

6 This rulemaking supports
7 the Secretary of Labor Hilda Solis'
8 vision of good jobs for everyone. The
9 Secretary's vision for achieving good
10 jobs is through a strategy of creating
11 workplaces where employers plan,
12 prevent and protect the safety and
13 health of employees.

14 Plan, prevent and
15 protect is based on the principle that
16 employers must find and fix threats to
17 health and safety and ensure compliance
18 with regulations before an inspector
19 arrives at the workplace.

20 The plan, prevent and
21 protect strategy begins with the
22 premise that Congress directed mine
23 operators to achieve, and to stay in
24 compliance with the law, but it doesn't
25 end there. It also embodies a

1 continuing intention to direct and
2 control or eliminate threats to safety
3 and health.

4 Some mining companies
5 experience low injury and illness rates
6 and low violation rates year after
7 year. For those companies, preventing
8 harm to their workers is more than
9 compliance with safety and health
10 requirements. It reflects the
11 embodiment of a culture of safety from
12 the CEO to the worker to the
13 contractor. This culture of safety
14 derives from a commitment to a
15 systematic, effective, comprehensive
16 safety and health management system,
17 implemented with full participation
18 from all the workers.

19 Several consensus
20 standards have been employed or
21 developed that address the safety and
22 health management systems, and these
23 are listed in the Federal Register and
24 with the American National Standards
25 Institute, ANSI, and Industrial Hygiene

1 Association, AIHA, Z10-2005,
2 Occupational Health and Safety
3 Management Systems. The International
4 Standards Organization, ISO 9001:2008,
5 Quality Management Systems Requirements
6 and the British Standards Institute,
7 BSI's Occupational Safety and Safety
8 Assessment Series. There are others
9 out there, too, that I'm sure you
10 people are familiar with.

11 As many of you know, our
12 sister agency in the Department of
13 Labor, the Occupational Safety and
14 Health, earlier this year held
15 stakeholder meetings as part of their
16 rulemaking on injury and illness
17 prevention programs. They call it
18 I2P2. The I2P2 rulemaking is OSHA's
19 version of the safety and health
20 management program.

21 I can assure you that
22 MSHA and OSHA will collaborate during
23 the development of these proposed rules
24 and will learn from each other and from
25 each other's stakeholders.

1 Effective safety and
2 health programs generally include
3 management commitment, worker
4 involvement, hazard identification,
5 hazard prevention and control, safety
6 and health training with program
7 evaluation to improve the program.

8 After all the
9 presentations, you'll have an
10 opportunity to ask questions or to
11 present your views.

12 At this time, I'd like
13 to hear from our first presenter. And
14 as you come to make your presentation,
15 would you please pronounce your name,
16 who you work for and spell your name,
17 so that the court reporter can
18 accurately reflect the information?
19 And the same goes for anybody from the
20 audience that asks a question. Please
21 do the same thing. Speak slowly, spell
22 your name.

23 And if you use any
24 acronyms or things that are associated
25 with mining industry, please keep in

1 mind that she's not from the mining
2 industry, and so you might want to
3 explain some of those things, too.
4 Thank you very much.

5 The first speaker will
6 be Mike Wright. Mike is with the
7 Steelworkers, and glad to hear from you
8 today, Mike.

9 MR. WRIGHT:

10 Thank you, Mr. Burns.
11 Do I get a microphone or is this ---?
12 Okay. I can talk loud.

13 BRIEF INTERRUPTION

14 OFF RECORD DISCUSSION

15 MR. WRIGHT:

16 Okay. Let's try this
17 again. My name is Mike Wright. I'm
18 the Director of Health, Safety and
19 Environment for the United
20 Steelworkers. Wright is spelled with a
21 W, W-R-I-G-H-T.

22 The United Steelworkers,
23 despite our short name, is a union that
24 represents 850,000 workers in many
25 different aspects of the economy, not

1 just steel, but also paper, forestry,
2 rubber, chemical, oil, nuclear fuels,
3 nuclear weapons, for that matter. And
4 for these purposes, we represent the
5 majority of unionized metal and
6 nonmetal miners in the United States
7 and the majority of miners of all kinds
8 in Canada.

9 I want to thank you for
10 having this public meeting and also for
11 allowing me to go first. I've got
12 another meeting in Washington. I'll
13 present testimony later on today, and I
14 just wanted to do both things.

15 This is a day of great
16 joy as we celebrate the rescue of the
17 33 miners trapped for 69 days at the
18 San Jose Mine in Chile. It doesn't
19 diminish that joy or our admiration for
20 the courage of the miners and the
21 bravery of the six rescuers who rode
22 the escape capsule down into the mine
23 or the skill and commitment of the
24 engineers who planned and executed the
25 rescue, but to remember that prevention

1 and not rescue is the ultimate goal of
2 mine safety.

3 Even as we give thanks
4 for the lives of the 33 rescued miners,
5 we mourn the miners killed at the same
6 mine in previous accidents. The 65
7 miners killed in 2006 at the Pasta de
8 Conchos Mine in Mexico. And of course,
9 our own miners killed at Sago, Upper
10 Big Branch and all the other mining
11 accidents with 60 deaths so far just
12 this year. Most of those victims never
13 had a chance to be rescued.

14 So even on this day of
15 great joy and thanksgiving, it's highly
16 appropriate that MSHA is holding this
17 public meeting because the best way to
18 prevent mine accidents is through a
19 strong safety and health management
20 system. The way we best do important
21 human activities in general, is by
22 assessing, planning, measuring
23 outcomes, revising goals. That's what
24 a safety and health management system
25 is really all about.

1
2 Sadly, safety and health
3 management systems are not a major part
4 of safety and health regulation in the
5 United States. The OSHA process safety
6 management standard contains elements
7 of a comprehensive system, but it only
8 applies to the hazard of gas, rock and
9 chemical accidents and only a small
10 percentage of OSHA-regulated
11 workplaces.

12 MSHA's required mine
13 plans includes elements of a
14 comprehensive system in mining, but
15 more will be needed. Mostly we
16 regulate safety and health through a
17 rulebook.

18 We thought about this
19 issue a lot in general and in other
20 industries, not so much in mining. As
21 this work goes forward, we plan to do a
22 lot of work with our miners about what
23 works in the mining environment and
24 what doesn't and what general elements
25 of a comprehensive system are best

1 adapted to mining and how they could be
2 adapted.

3 But I want to tell you
4 about two research studies that we've
5 done in the Steelworkers. Neither of
6 these is published. We hope they will
7 be at some point, but nevertheless, I
8 think the results are constructive.

9 Since 1980, we've been
10 collecting data on all fatalities that
11 happen in the Steelworkers Union. God
12 help us, we've had more than 1,000
13 since 1980. Not just in mining, but in
14 all industries in both the United
15 States and Canada.

16 Back in 2006, we took a
17 random sample of those and analyzed
18 them and asked a couple of questions.
19 One of the things we asked was, was
20 this fatality the direct result of a
21 violation of an OSHA or MSHA or an
22 equivalent Canadian standard?
23 Astoundingly, in just about half the
24 cases, the answer was no.

25 Now, when somebody dies

1 in a workplace, the government goes in.
2 They can usually find contributing
3 factors. They can also find other
4 things that are serious health
5 violations in that site, in that
6 worksite, and cite those violations.

7 But in about half our
8 cases, a violation of a specific
9 standard was not a root cause. That's
10 not so surprising when you think about
11 it.

12 When we establish a new
13 safety standard for a particular
14 hazard, deaths from that hazard can go
15 down. That's what standards are
16 supposed to do. When we established a
17 confined space standard, for example,
18 under OSHA, deaths from confined spaces
19 drop dramatically.

20 The things that get
21 people killed in the steel industry are
22 things that are largely not regulated
23 by specific standards; water and metal
24 explosions, railroads, things like
25 that. So it's not surprising. But

1 what it also tells us is that depending
2 on compliance with a rulebook, simply
3 following the rules, simply following
4 the standards, simply being in
5 compliance, really isn't enough. To
6 really prevent fatalities and serious
7 accidents, we have to do more. We have
8 to assess the risk that exists in every
9 part of the operation, and we have to
10 respond to that risk, irrespective of
11 whether that risk is addressed by a
12 specific standard. And that's really
13 what a safety and health management
14 system is all about.

15 In that same
16 look at our fatalities, we also asked
17 the question of would an inspector in
18 the workplace or a joint safety and
19 health committee walk around or an
20 observation program have identified the
21 cause of that accident? And in most
22 cases, the answer was no, because those
23 causes were not apparent until the
24 accident actually occurred.

25 A good example,

1 something breaks at 3:00 a.m.
2 Management says we got to get this back
3 in production. So they take three
4 maintenance workers and sort of throw
5 them at the problem. It may be
6 something that they've never seen
7 before, never done before. The time
8 isn't taken to analyze the risk or to
9 plan the job safely. Then something
10 happens.

11 A large proportion of
12 our fatalities were under process
13 interrupt conditions and unusual
14 circumstances, things that a
15 comprehensive risk assessment style of
16 audit would have identified or at least
17 should have identified, but that would
18 not have been apparent in a simple walk
19 around inspection.

20 And what that tells us
21 is that worker involvement, worker
22 participation in the safety and health
23 management system is really essential.
24 Because when those upsets happen, it's
25 the people who are on the scene who

1 need to quickly evaluate the risks and
2 decide what has to be done. And so
3 worker participation with lots of
4 training to help people identify
5 hazards and identify solutions is
6 really essential in any management
7 system.

8 Another piece of
9 research --- and this I think ought to
10 be alarming for everyone who works on a
11 safety panel. Back about eight years
12 ago, we had a series of serious
13 accidents in an American steel company.
14 That company has floor plans or had
15 floor plans. It's now been absorbed by
16 --- I'll be specific. The company was
17 National Steel. One of those
18 workplaces was a mine, but we did not
19 separate out the mine from the other
20 workplaces.

21 After those accidents,
22 union and management cooperated in
23 doing a very comprehensive safety sweep
24 in all four of those locations and
25 found literally thousands of problems

1 and got them corrected fairly quickly.

2 But we knew we had to do more, and one
3 of the things we did is we did a survey
4 of the workers.

5 Some of the things in
6 that survey were very specific. For
7 example, we asked workers who were on
8 particular crews, if they had enough
9 tools to do the job, being very
10 specific about what tools were needed.

11 So the survey was somewhat different
12 with people in different occupations
13 and it was certainly different for
14 miners than it was for people in steel
15 making plants.

16
17 But we also asked some
18 more general questions that were the
19 same for everybody. One of the
20 questions we asked was have you ever
21 done a job, an unsafe job, knowing it
22 was unsafe, but gone ahead and done it
23 anyway? And roughly 60 percent said
24 yes. I suspect the true number is
25 actually higher, and some people did

1 not admit to it. But roughly 60
2 percent said yes.

3 And then we gave people
4 a sort of a multiple choice question
5 asking why did you do it? And some of
6 the choices were I didn't want to lose
7 pay or incentives, pressure from
8 management, didn't want to look like a
9 wimp, didn't want to let down my work
10 team and a series of others.

11 The answer that garnered
12 the most responses, an issue to give us
13 all pause, was no other way to do the
14 job. In other words, the majority of
15 workers across the board, not just in
16 mining, are doing unsafe jobs knowing
17 they are unsafe, because they believe
18 that it is the only way to do it.

19 That tells us that we
20 need to have a system for assessing the
21 risks of different jobs, for
22 determining what the best control is,
23 and for making sure that workers are
24 basically educated in doing those jobs,
25 that the jobs are changed, and the

1 people know that they're changed, know
2 how they're changed and know how to do
3 the job safely and participate in that
4 process. Because in at least my
5 experience, the way you really find out
6 about the safety of the job is to talk
7 to people who are doing it. And that's
8 what a safety and health management
9 system really ought to do.

10 There are, of course,
11 at least two management systems. In
12 the record, they were referred to in
13 Mr. Burns' opening statement. They are
14 the ANSI Z10 standard --- and I should
15 say that I and a second guy in the
16 Steelworkers Union were involved in the
17 development of ANSI Z10. And ANSI is
18 the process of essentially updating and
19 revising Z10 as well, so we know that's
20 going to be done. The other is the
21 OHSAS
22 18,000 series. We're not involved in
23 the development of that, but that is
24 another standard that needs to be
25 looked at as MSHA moves forward.

1 I want to add one more
2 to that list, and I'll put this on the
3 record. In 2001, the International
4 Labor Organization wrote guidelines of
5 occupational safety and health
6 management systems. They're both at
7 the governmental level, but especially
8 at the level of the enterprise in the
9 individual workplace. We think that's
10 a good model as well. It's a little
11 more general than the other standards,
12 but it's certainly worth having in the
13 record.

14 There is a recent
15 development, and I want to spend the
16 rest of my time talking about that.
17 Back two weeks ago, three weeks ago,
18 there was the sixth joint conference
19 between the United States and the
20 European Union of Occupational Safety
21 and Health. These are things which in
22 the past have been planned primarily
23 between OSHA and OSHA's counterparts in
24 the European Union. But this year it
25 included significant participation from

1 MSHA as well.

2 I didn't sense that
3 there were participants from labor and
4 industry and from government from both
5 sides of the Atlantic. The conference
6 was divided into work groups. One of
7 those work groups was on safety and
8 health programs, and in particular, on
9 risk assessment. And I want to read
10 the conclusions of that work group.
11 Now, I should say this is not --- this
12 isn't some kind of an established
13 international law or statement or
14 anything like that. It's only the
15 report of the work group. But the work
16 group included fairly significant,
17 really knowledgeable people, again from
18 both sides of the Atlantic, and from
19 all three parties. I think it's worth
20 getting on the record.

21 And I should say this is
22 also a preliminary statement. There
23 are a few editorial --- well, not
24 really editorial, grammatical things
25 that the Secretary is going to do

1 before it's going to be published, and
2 it will be published in the proceedings
3 of the conference by the end of the
4 year. Let me read it. I also have
5 copies, which I'll have available to
6 everybody out here. And of course,
7 I'll make it available for the record
8 as well.

9 Number one, the work
10 group strongly believes that safety and
11 health management systems can
12 significantly contribute to safety and
13 health in the workplaces.

14 Number two, we encourage
15 the competent authorities in the US and
16 EU to continue with the development of
17 requirements for safety and health
18 management systems. Safety and health
19 management systems should address both
20 traditional hazards and issues of work
21 organization, which affect safety and
22 health. This is especially important
23 because changes in work organization
24 can increase risks to workers.

25 Two essential conditions

1 for an effective safety and health
2 management system are management
3 commitment at all levels of the
4 organization and the participation of
5 workers and their representatives.

6 Number five, there is
7 limited statistical peer-reviewed
8 evidence on the impact of safety and
9 health management systems on actual
10 injury and illness rates. This is due
11 in part to the unreliability of injury
12 and illness rates and to the long
13 latency period for many occupational
14 diseases. Nevertheless, there is
15 extensive anecdotal evidence that
16 safety and health management systems
17 are effective in eliminating hazards
18 and reducing risks.

19 In addition, incident
20 investigations frequently identify the
21 lack of or ineffective application of a
22 safety and health management system as
23 a contributing factor. Taken as a
24 whole with the understanding that
25 additional research is always

1 desirable, the existing evidence
2 provides strong support for safety and
3 health management systems.

4 Number six, safety and
5 health management systems are fully
6 justified on the grounds of safety and
7 health. In addition, the elimination
8 and control of hazardous conditions has
9 ancillary benefits, including reducing
10 a societal group of disease and
11 disability and improvements in
12 corporate productivity, quality, morale
13 and reputation.

14 Number seven, while risk
15 assessment was the primary focus of the
16 work group, risk assessment is one
17 aspect of an effective safety and
18 health management system. For example,
19 risk assessment is useless without a
20 mechanism for eliminating or reducing
21 risks.

22 Number eight, safety and
23 health management systems should be
24 mandatory in all workplaces. The
25 requirements should be flexible and

1 should be designed to facilitate
2 compliance by small and medium
3 enterprises.

4 Number nine, key
5 elements of an effective safety and
6 health management system include, first
7 of all, employing mechanisms for
8 leadership and participation by all
9 levels of management and by workers and
10 their representatives; defined roles,
11 responsibilities and authority; the
12 identification of applicable legal
13 requirements and their application; a
14 process for hazard identification and
15 risk assessment; procedures for
16 investigating work-related injuries and
17 illnesses, accidents, incidents,
18 process upsets, deficiencies and
19 concerns.

20 A method for evaluating
21 the safety and health implications of
22 the initial design of and changes in
23 technology, processes, materials,
24 equipment and work organization.

25 A mechanism for

1 addressing the results of risk
2 assessments, investigations and
3 evaluations and assuring that
4 identified risks are reduced or
5 eliminated through a hierarchy of
6 controls, giving substitution of
7 engineering controls and changes in
8 work organization priority over a
9 personal protective equipment.

10 A method for addressing
11 the safety and health of contractors
12 and contracted work.

13 A process for assuring
14 that safety and health is considered in
15 decisions, including design
16 specifications, product selection
17 procedures and quality control.

18 Appropriate and effective
19 educational training. Appropriate
20 metrics, including leading indicators
21 like results, process deviations,
22 exposure information and the time it
23 takes to correct problems.

24 The method for
25 documenting and tracking problems and

1 corrections. The process for assuring
2 communication and transparency
3 throughout the application of the
4 management system. Regular evaluations
5 to the safety and health management
6 system will be able to continue its
7 improvement and the process for
8 assuring that sufficient resources are
9 allocated to implementing and
10 sustaining the safety and health
11 management system.

12 Ten, given the
13 importance of accurate information,
14 workers should be encouraged to report
15 injuries, illnesses, accidents,
16 incidents, deficiencies and concerns.
17 There must be no policy, practice or
18 program which penalizes or discourages
19 such reporting.

20 Eleven (11), risk
21 assessment and preventative action are
22 essential in any workplace and are
23 required by law for all workplaces in
24 the European Union, and I hope one of
25 the things that MSHA really

1 investigates as it goes along is how
2 the European Union is doing this,
3 because it's a pretty good model.

4 Twelve (12), risk
5 assessment can be made more effective
6 and less burdensome through user-
7 friendly interactive tools such as
8 those currently used in the Netherlands
9 and under development by the European
10 Agency for Safety and Health at Work.
11 Simple and easy to use tools are
12 especially important for small and
13 medium enterprises.

14 Thirteen (13), risk
15 assessment tools should be developed
16 for both routine operations and for
17 non-routine tasks, such as infrequent
18 maintenance procedures and responding
19 to upset or emergency conditions, which
20 often involve higher risks.

21 Fourteen (14), the
22 development of risk assessment tools by
23 the competent authority should be done
24 with the participation of employers and
25 worker representatives. Likewise, the

1 development of risk assessment tools by
2 employers should be done with
3 participation of worker
4 representatives.

5 Fifteen (15), the
6 application of risk assessment tools to
7 particular enterprises or tasks is the
8 responsibility of the employers, but it
9 should be done with the participation
10 of worker representatives.

11 And finally, number 16,
12 the development of risk assessment
13 tools is an important area of the US-EU
14 collaboration. That collaboration and
15 the development of such tools in
16 general must be appropriately
17 resourced.

18 The collaboration should
19 begin with --- three bullet points.
20 Developing and exchanging information
21 on the effectiveness of safety and
22 health management systems.

23 The second, further
24 discussion of leading indicators that
25 predict safety and health management

1 system performance. And finally,
2 continued work on the application of
3 safety and health management systems to
4 concrete issues, in particular,
5 chemical safety at work and the
6 problems of work organization.

7 Sorry I spent so much
8 time reading it into the record, but I
9 think it's important. And like I said,
10 there'll be copies here.

11 That pretty much
12 concludes my statement. I want to
13 thank you all again for allowing me to
14 participate in this meeting and for all
15 the wonderful work that MSHA does.

16 MR. BURNS:

17 Thank you, Mike. I just
18 have, I guess, one comment or a
19 question. I know the research process
20 that you talked about has not been
21 completed. It's still in draft form.
22 But if you could submit some of those
23 statistics that you gathered from that
24 in the previous draft and it's still
25 good information you can submit that to

1 us. That'd be very helpful.

2 MR. WRIGHT:

3 We will.

4 MR. BURNS:

5 Thank you. Anybody else
6 have any questions? I guess I did have
7 one other question on the data. Are
8 you separating out the data by
9 industries?

10 MR. WRIGHT:

11 No.

12 MR. BURNS:

13 No. Okay. I was just
14 curious how --- if it varies from one
15 industry to another. Is there anything
16 that jumped out at you?

17 MR. WRIGHT:

18 We can do that only if
19 ---. In the first case, we could do
20 that only if we had not done a sample.
21 We needed the data to be updated, to be
22 statistically significant to the year
23 when you're looking at fatalities.
24 Thank goodness we have small numbers in
25 terms of statistics. So the only way we

1 could really do that is to take a
2 pretty large sample of all of them. I
3 think we took 200, which --- and I
4 think in that case, we're going to have
5 to do the --- to make it publishable is
6 to do it in a more kind of scientific
7 way.

8 We would, for example,
9 get several people --- get more people
10 to review each one. We'd go through
11 kind of a census process about
12 answering questions. We have to blind
13 it in some way. So redoing that I
14 think in an absolutely scientifically
15 unimpeachable way is going to take some
16 effort. We're going to work on it, but
17 that will take some time.
18 Nevertheless, I think the results are
19 probably going to ---.

20 The other one was done
21 in a scientifically accurate way.
22 There's a lot of data still to be
23 analyzed. That one can be published
24 probably fairly easily the way it is.

25 MR. BURNS:

1 All right. Thank you.

2 MR. WRIGHT:

3 And I just want to say
4 in the second one, we did not separate
5 mining from the others once again
6 because of the numbers problem. But
7 also because to do this right, we were
8 asking some pretty sensitive questions,
9 you know.

10 When you ask people if
11 they've ever broken a work rule, you
12 know, you need to make sure that
13 they're assured of absolute
14 confidentiality, so when we did it, it
15 was workers talk to workers; managers
16 talk to managers. The people doing the
17 interviews who were workers, but were
18 trained in techniques to do one of
19 these, certainly asked the questions,
20 filled out the questionnaire, gave it
21 to the people being interviewed --- the
22 person they interviewed, to make sure
23 it reflected their views. And then it
24 was sealed and put in an envelope. And
25 from that point on, the individual

1 couldn't be identified.

2 MR. BURNS:

3 Thank you. Anything
4 else? Anybody from the audience have
5 any questions for Mike? Bruce.

6 MR. WATZMAN:

7 Mike, you touched
8 upon ---.

9 MR. BURNS:

10 Bruce, can you identify
11 yourself?

12 MR. WATZMAN:

13 Bruce Watzman,
14 W-A-T-Z-M-A-N. Mike, your last comment
15 touched up on where I wanted to direct
16 this question. And as I ask it, it's
17 not to ---. I think the work you're
18 doing is very valuable and will be an
19 educational, informative record. And I
20 don't want you to get the perception
21 that I'm trying to shift the
22 discussion, because I'm not.

23 But I'm curious. As you
24 did your survey and your analyzing of
25 this, you talked about half of the

1 fatalities didn't --- you couldn't tie
2 it back to a violation of an existing
3 standard. I'm curious as you've
4 analyzed your data, how you looked at
5 behavioral factors and what you were
6 able to conclude from your analysis of
7 behavioral factors?

8 MR. WRIGHT:

9 We did look at that,
10 Bruce, and I think ---. And we
11 continue to look at that every time we
12 have a fatal accident, so that's
13 important for us. We tend not to like
14 the term behavioral safety, in part
15 because we think it conveys the wrong
16 message to the worker. When we were
17 all kids and our parents talked about
18 our behavior, it was never a good
19 thing. And so we just think the word
20 is wrong.

21 But we talk about
22 factors when we ---. In the majority
23 of our fatalities one element is that
24 somebody sort of close to the scene did
25 something wrong. Okay? And when I say

1 close to the scene, if you want to, you
2 know ---. The statement that human
3 error is part of every fatality is
4 absolutely true, but sometimes that
5 error is committed by the Board of
6 Directors, right? We don't have many
7 people killed by meteorites. So if you
8 follow the chain far back, you know,
9 you can find somebody who made a wrong
10 decision, did a wrong thing. But
11 there's a British safety expert named
12 Trevor Kletz, who once said that saying
13 official injuries are caused by human
14 error is like saying falls are caused
15 by gravity. So it's true, but it
16 doesn't help you control very much.

17 Like I said, there's a
18 significant number of fatalities,
19 probably well more than half where the
20 worker involved or the co-worker made a
21 mistake.

22 The next question is how
23 do you address that? And to us you
24 address that in two ways. Number one,
25 you make mistakes less likely, and you

1 don't do that by exhorting people to
2 work safely. That doesn't really work.
3 You do it by identifying factors that
4 cause people to work unsafely. And
5 there are things like fatigue,
6 conflicting job duties, lack of proper
7 training, lack of understanding of the
8 risks, all those things. So you first
9 examine those.

10 Second, you try to
11 create a workplace that's safe. We're
12 all human. We're going to make
13 mistakes. And it is impossible for
14 somebody to go through even a year
15 without making a potentially lethal
16 mistake. If the first mistake you make
17 is going to be one that gets you in a
18 serious accident, then there's a
19 problem with the workplace.

20 So we very much believe
21 in safety through design and trying to
22 create mistake-tolerant workplaces and
23 workplaces that really embody the
24 failsafe system. So if the system
25 fails, you have a fail safety in the

1 ---. That's certainly what we do. And
2 we think those elements ought to be
3 part of the safety and health
4 management system. You really have to
5 address human factors as well. Short
6 question, long answer.

7 MR. BURNS:

8 Any other questions?

9 Okay. Thank you very much, Mike.

10 MR. WRIGHT:

11 Thank you.

12 MR. BURNS:

13 I look forward to seeing
14 you the day of.

15 MR. WRIGHT:

16 Thanks. And I'm very
17 sorry I have to leave. I really would
18 like to have heard the other presenters
19 today.

20 MR. BURNS:

21 We'll have the
22 transcript, and all comments will be in
23 the record. So anybody here can follow
24 the Federal Register and reach the
25 comments page, and they're all in

1 there.

2 MR. WRIGHT:

3 I'll do that. Thank
4 you.

5 MR. BURNS:

6 Thank you. Our next
7 speaker will be Anthony Bumbico, Vice
8 President of Safety from Arch Coal.

9 MR. BUMBICO:

10 Good morning.

11 MR. BURNS:

12 Good morning.

13 MR. BUMBICO:

14 Good morning. My name
15 is Anthony or Tony Bumbico. Last name
16 is spelled B-U-M-B-I-C-O. As Kevin
17 mentioned, I'm the Vice President of
18 Safety for Arch Coal. Arch is based in
19 Saint Louis. We're the second largest
20 coal company in the US. We operate in
21 six states and we have about 5,000
22 employees. And I'm here to share some
23 of the ideas that Arch has implemented
24 to improve our safety performance.
25 We've had some success with these

1 concepts. I would state upfront,
2 however, that many of these ideas do
3 not lend themselves to regulations.

4 The concepts I'm going
5 to discuss revolve around the ideas of
6 leadership, employee involvement,
7 problem solving and developing a
8 culture to do the right thing.

9 We believe that
10 organizations can be taught how to do
11 these things. They can be encouraged
12 and convinced to do these things.
13 These types of ideas would not, in my
14 opinion, be as effective if required by
15 law or regulation.

16 I've worked for Arch for
17 six years, and it's been a pleasure
18 working for an organization that
19 embraces safety as a value. At Arch,
20 safety is a core value. It's who we
21 are. Our goal is to reach the perfect
22 zero. Bringing home safely everyone,
23 every day, and we think this goal is
24 achievable.

25 Historically, Arch's

1 safety performance has been very good.
2 Our total incident rate, which measures
3 lost-time, preventable injuries has
4 improved 77 percent since 1998.

5 Over time, the Arch
6 incident rate has performed well below
7 the industry average. Now, when we
8 look at our five-year average for
9 lost-time injuries, we've generally
10 stayed about 70 percent below the
11 industry average. We plan to continue
12 to improve upon this trend, because we
13 believe firmly that our mines are
14 profitable because they're safe.

15 We didn't get to where
16 we are overnight. Our process was
17 constructed in layers. The building
18 blocks were put in place over time.
19 I'd like to take a few minutes to
20 discuss each of these components. They
21 include Division operation safety
22 plans, a cross-operational safety audit
23 process, a safety improvement process,
24 and a behavior-based safety process.

25 When I arrived at Arch,

1 they already had what, in my opinion,
2 was a solid safety foundation. The
3 centerpiece of the process was a
4 requirement that each of our operations
5 meet the minimum corporate standards.
6 These standards were in the form of the
7 seven safety principles. The
8 principles are listed on this slide and
9 were incorporated in efficient safety
10 plans adopted by each of our
11 operations. Over time, the operations
12 have built on this foundation.

13 In 2004, Arch
14 implemented the continuous safety
15 improvement process. This is a
16 systems-based, goal-oriented process
17 that follows an annual cycle. It
18 focuses on identifying and closing
19 measurable gaps in performance.

20 Every year, each
21 operation develops an SIP or Safety
22 Improvement Plan. They evaluate key
23 performance measures and establish
24 three to five improvement targets per
25 year. Their SIP identifies what types

1 of improvement interventions they plan
2 to implement to achieve each of their
3 targets.

4 Corporate safety. This
5 is done at the beginning and midway
6 through each year to discuss their
7 strategy and their progress. At the
8 end of the year, we evaluate what
9 they've accomplished and start the
10 process all over again.

11 Cross-operational audits
12 are another technique that we've
13 adopted. Now, this is a layer built on
14 top of the safety audit process that
15 was already in place at each of the
16 operations.

17 The concept is pretty
18 simple. You take people from mine A, B
19 and C, and we go to mine D. It
20 provides a snapshot of the safety
21 process of the mine being audited, and
22 we use it to evaluate the health of the
23 mine's safety plans, safety improvement
24 plan, their basic safety process
25 components and their behavior-based

1 safety process.

2 The audit structure is
3 pretty straightforward. It starts with
4 an operation overview, hazard training,
5 review of that operation's SIP, the
6 safety plan. Then we conduct a site
7 inspection, interview a sample of
8 employees, meet with the management
9 team to provide feedback, discuss their
10 best practices. And at the end,
11 prepare a report of the audit.

12 Our audit process
13 focuses on these key safety process
14 components. We've developed a series
15 of checklists to help the auditors
16 evaluate the operation standards in
17 these basic areas. We've also
18 developed several questionnaires that
19 we use to interview a cross-section of
20 employees.

21 Our objective is to
22 obtain a snapshot of the operation's
23 health and safety process. It's not
24 intended to be a wall-to-wall
25 inspection. Our aim is to evaluate

1 what the employees of that operation
2 know about the health and safety
3 process of their mine.

4 We also focus attention
5 on identifying and sharing best
6 practices and providing constructive
7 feedback to the management team.

8 We generally try to do
9 four to five of these cross-operational
10 audits per year. We don't do it on a
11 rotational basis. If an operation is
12 having safety issues, we tend to pick
13 on them more frequently than the
14 others.

15 Additionally, we use
16 safety professionals to conduct these
17 audits. We've now evolved the process
18 to the point where hourly employees and
19 key operations and maintenance
20 personnel participate in the audit
21 teams.

22 The audit process serves
23 many purposes. Most importantly, in my
24 opinion, is to identify and share best
25 practices, involve more employees in

1 the safety process and visibly
2 demonstrate Arch's commitment to
3 safety.

4 I won't go into much
5 detail, but I will mention a few other
6 things that we've implemented to try to
7 maintain our momentum as we address
8 specific risks.

9 Arch holds an annual
10 Safety Summit with key managers, safety
11 professionals and behavior-based safety
12 personnel. This is an opportunity to
13 review our accomplishments and
14 establish new objectives.

15 We also hold annual
16 regional safety workshops to develop
17 our safety professionals. And in
18 addition, we've developed specific
19 processes to deal with the risks
20 associated with contractor safety,
21 emergency preparedness, crisis
22 communications and explosives safety.

23 The processes I've
24 mentioned were all in place by 2006.
25 They've helped us to improve, but we

1 still weren't satisfied. We still felt
2 that we were having too many injuries,
3 and that we had reached a plateau with
4 regard to our safety performance. We
5 believed that one injury was one too
6 many, and we were confident we could
7 improve on where we were. That's why
8 we adopted behavior-based safety as the
9 next step to get us to the next level.

10 Behavior-based safety is
11 a process. It starts with the daily
12 tasks that each employee performs.
13 Each site has a management sponsor and
14 the steering team. The committee
15 develops a set of critical behaviors
16 that are used in the observation
17 process.

18 Observers identify
19 exposures that may lead to injuries.
20 They provide feedback of whether the
21 behaviors are safe or at risk.

22 The data gathered for
23 observation specifically is a training
24 software that helps us to identify
25 trends. And the trends are analyzed to

1 identify improvement opportunities and
2 problem-solving solutions.

3 The decision to
4 implement the behavior-based safety
5 process was by operational decision at
6 Arch. Between 2006 and 2009, we fully
7 implemented behavior-based safety in
8 each of our operations. It took an
9 average 12 to 18 months to fully
10 implement the process in each
11 operation.

12 The process that we
13 implemented was not just another safety
14 program. It was designed by a company
15 called Behavior Science Technology.
16 It's a systems-based improvement
17 process. It starts with a
18 comprehensive organizational
19 assessment, contains a leadership
20 development component and involves a
21 structured improvement process.

22 Employees are trained in
23 data collection and problem-solving
24 techniques and the process ultimately
25 contains an evaluation.

1 Phase One of the process
2 we implemented involved conducting a
3 comprehensive survey to help us assess
4 each operation's safety culture and
5 leadership style. The OCDI, or
6 Organizational Cultural Dimension
7 Survey, and a leadership diagnostic
8 were the key factors that predicted
9 safety performance.

10 We followed up with a
11 Behavior-Based Safety and Coaching
12 workshop with key managers from within
13 our organization. And in addition,
14 each site sponsored leadership and
15 interpersonal skills training for the
16 supervisors to show them how they can
17 support the process.

18 Phase Two is where you
19 establish the process structure. Each
20 site designated a management sponsor.
21 In some cases, this was the General
22 Manager. At other sites, it was the
23 Process Manager recognized as the
24 safety leader. The sponsor serves as a
25 liaison between the steering team and

1 the management team.

2 Each site also selects a
3 facilitator. This individual helps to
4 guide the Steering Team. At our sites,
5 we use both hourly employees and
6 supervisors in this role.

7 The Steering Team
8 normally consists of volunteer hourly
9 employees. The committee is the key
10 component that makes the process work.
11 They develop critical behavior
12 inventories that are used in the
13 observation. They also introduce the
14 process to other employees and train
15 other employees as observers.

16 Phase Three is the guts
17 of the process. It involves conducting
18 observations. Observers gather data of
19 exposures and at-risk behaviors that
20 contribute to injuries. Near-miss
21 incident reporting is also encouraged.

22 The objective is to gather meaningful
23 information to facilitate problem
24 solving. The focus is on barrier
25 identification and removal.

1 At Arch, our BBS process
2 also contains an evaluation component.
3 A consultant was assigned to each of
4 our operations during the
5 implementation phase. They provided
6 feedback to the management team during
7 implementation. They also provided
8 coaching support for team leaders.

9 As each operation's
10 implementation nears completion, a
11 comprehensive sustainability review was
12 conducted. This review contains
13 recommendations on how the operation
14 can keep the process moving forward.

15 And finally, 18 to 24
16 months after the process is initiated,
17 we conduct a repeat OCDI,
18 organizational cultural assessment.
19 This helped us to evaluate whether the
20 site's leading safety indicators had
21 improved.

22 Our consultants were
23 helpful in guiding us through the
24 implementation process, but in order to
25 make this process really work, you have

1 to adopt it as your own.

2 At Arch, we're taking
3 additional measures to make the process
4 sustainable. We're attempting to
5 integrate it into our safety culture in
6 our normal safety process. We're
7 adopting upstream measures of safety
8 performance and additional indicators.

9 We're trying consistently to provide
10 visible safety leadership, and we're
11 encouraging each process to adopt their
12 own unique identity.

13 Some of the ways that
14 we're integrating the process into our
15 overall safety process is we're
16 inviting and we now have the steering
17 team participate in our annual Safety
18 Summit. Regional safety workshops that
19 we conduct now involve facilitators as
20 well as observers. We conducted
21 corporate training for team managers on
22 how to support the process.

23 And in addition, we
24 trained four Arch personnel as internal
25 consultants so that they can help us to

1 make this more sustainable as we go on.

2 Right now we're in the
3 phase of developing a program for
4 advance facilitator training, so that
5 we can take our facilitators to the
6 next level.

7 A few other examples of
8 how we're involving our observers in
9 the safety process is we're asking the
10 steering teams for input on injury and
11 near-miss reporting. We're also
12 holding observer network meetings to
13 exchange ideas, sponsoring regional
14 facilitator meetings to exchange best
15 practices, and we've started to invite
16 facilitators and other observers to
17 participate in our cross-operational
18 audits.

19 Another step we've taken
20 is to develop upstream component
21 targets. In addition to traditional
22 measures like incident rates, we're
23 asking each of our operations to
24 establish targets for observation of
25 contact rate, observation of quality,

1 the percentage of the workforce that
2 they have trained and active as
3 observers and the percentage or the
4 number of barriers that they have
5 removed.

6 In the long term, we
7 think these types of upstream measures
8 will be better predictors of safety
9 performance.

10 I think probably the
11 most significant thing we've done is to
12 actively demonstrate visible safety
13 leadership. Our President, CEO, John
14 Eaves and Senior Vice President of
15 Operations, Paul Lang, routinely visit
16 the sites, meet with the steering
17 teams, find out what their issues are
18 and discuss what we can do to support
19 their process.

20 We've even gone as far
21 as having three of our facilitators
22 come to a Board of Directors' meeting
23 and offer a presentation on what
24 they're doing in the field.

25 Each of our teams has

1 adopted a unique identity. We haven't
2 attempted to follow a cookie-cutter
3 approach. They go mine by mine. We
4 don't compare progress in one site to
5 another site. And each site has
6 basically adopted a name and symbol to
7 try to capture their unique character.

8 The SLOPE Team is the
9 team that we have in Mountain Laurel in
10 West Virginia. That stands for Safely
11 Leading Our People to Excellence.

12 The DAWGS team is in
13 Dugout in Utah. And that stands for
14 Developing Awareness While Generating
15 Safety.

16 The results that we've
17 seen, we've been at this about four
18 years, and we're seeing a number of
19 positive results in many areas, one of
20 which is a continued improvement in our
21 traditional indicators.

22 The biggest benefit that
23 we've seen is increased employee
24 development. We have more people
25 involved in peer-to-peer observations.

1 They're actively identifying exposures
2 and providing feedback. This is a no
3 name, no blame, no sneak-up process.
4 No discipline results from the
5 observations. The only goal is
6 improvement.

7 A few hard numbers from
8 the behavior-based standpoint, we have
9 3,800 hourly employees covered by this
10 process. We've trained over 4,200
11 people as observers. They've conducted
12 over 94,000 observations in a four-year
13 period, observing over 120,000
14 employees. But most significantly they
15 have, during that period, removed 2,151
16 barriers to safe performance.

17 Basically by a barrier,
18 what we're talking about is anything
19 that impedes or makes safe performance
20 more difficult. It can be a physical
21 issue, a process issue or a cultural
22 impediment. And the basic removal
23 method depends upon whether the barrier
24 is enabled or within the power of the
25 individual; whether it's difficult, it

1 takes some type of management
2 intervention to remove, or whether it's
3 impossible.

4 A few barriers that I'll
5 throw out here as examples, at one of
6 our underground mines, observers
7 identified an equipment condition that
8 created a pinch point. A locomotive
9 had an opening in the canopy that
10 enabled an individual to stand up and
11 expose their head to the top. In fact,
12 we had an employee who actually had his
13 head stuck between the canopy and an
14 overpass. The solution was to re-
15 design this canopy so that there was no
16 opening, and thus eliminating the
17 barrier.

18 One of our surface mine
19 employee observers identified a
20 mounting/dismounting barrier. They
21 identified a loader without a proper
22 type of a handrail. The solution was
23 to install a handrail that enabled the
24 proper three-point contact.

25 In one of our prep

1 plants observers identified a fall
2 hazard that existed for a long period
3 of time. The steering committee
4 arranged to eliminate the exposure by
5 having guarding installed.

6 And these are just a few
7 of the over 2,100 barriers that our
8 people have removed in the past four
9 years.

10 The bottom line is our
11 safety process has become more strong
12 during this period. We have more
13 hourly people involved. It's improved
14 the communications level. We've
15 upgraded our problem-solving skills.
16 And generally, the observers hold
17 themselves to a higher standard. The
18 bottom line is we have people
19 enthusiastic about our safety process.

20 Kind of a corollary
21 benefit is, during this training
22 process, we identified a number of good
23 people that are emerging as safety
24 leaders, and a number of those who
25 trained as observers and facilitators

1 have now moved on to supervisory or
2 safety professional positions.

3 And here's just a few
4 comments that our facilitators have
5 offered in the process, what they think
6 about it. Generally, they cite
7 improved communications within all
8 levels of the organization, more people
9 involved in safety. It provides a
10 venue for hourly people to use their
11 talents on safety. And overall,
12 facilitators have been very positive
13 about the process and the impact it's
14 had, not only on work at the mine, but
15 also in their everyday life.

16 At the end of the day,
17 Arch's foundation principle is to get
18 everyone home safely every day. What
19 we've seen thus far in the four years
20 is improvement as a result of our
21 behavior-based safety efforts. The
22 other layers in our safety process have
23 also helped us to maintain a solid
24 foundation. And each day we're
25 continuing to eliminate at-risk

1 behaviors and move ourselves closer to
2 our end game, which is zero injuries on
3 the worksite.

4 I will close in saying
5 that while these concepts have been
6 effective to Arch and we would
7 encourage other companies to consider
8 them, many of these concepts would be
9 very difficult to regulate as a matter
10 of regulation or law. Thank you for
11 the opportunity to talk to you and
12 share our views.

13 MR. BURNS:

14 Thank you very much,
15 Tony. Does anybody have any questions
16 for Mr. Bumbico?

17 MR. DISTASIO:

18 Tony, first of all, can
19 you supply some of the data? You were
20 talking about that the results showed
21 up in the traditional data, so if you
22 can supply some of that for the record,
23 we'd appreciate it.

24 MR. BUMBICO:

25 It's actually in a

1 couple of the slides in the earlier
2 presentation.

3 MR. DISTASIO:

4 I saw those.

5 MR. BUMBICO:

6 Yes.

7 MR. DISTASIO:

8 I thought you meant you
9 were talking about other ones on the
10 traditional ---.

11 MR. BUMBICO:

12 If we have other numbers
13 that we can share we will.

14 MR. DISTASIO:

15 That would be helpful.
16 I noticed in your presentation two
17 things that have come up in a number of
18 other presentations, and one of them is
19 contractor safety. Can you talk a
20 little bit about how you deal with
21 contractor safety?

22 MR. BUMBICO:

23 Sure. The approach
24 is generally structured similar to our
25 operation safety plans. We have a set

1 of standards, that each of our
2 operations is required to develop a
3 nonspecific contractor safety plan to
4 incorporate. And those deal with
5 training requirements, documentation
6 requirements, and also they incorporate
7 the concept of conducting a risk
8 assessment of the various contractors
9 when they come on site prior to their
10 commencing work. So that the level of
11 measures we take to try to deal with
12 that contractor vary according to the
13 level of risk.

14 So in other words, a
15 contractor that is coming in ---. Say
16 a shaft or slope would have a higher
17 standard they were held to versus
18 someone who is just making a delivery.

19 MR. DISTASIO:

20 And do your statistics
21 include any of that? Do you include
22 some contractor statistics in the
23 overall statistics?

24 MR. BUMBICO:

25 What we do is if a

1 contractor is directly working under
2 our supervision, they're included as
3 part of our statistics. If they're
4 working as a separate entity, they're
5 not included.

6 MR. DISTASIO:

7 The other thing I want
8 to ask you about is you mentioned each
9 process has a unique program. So you
10 have basically an overall corporate
11 strategy and then allow the individual
12 units to develop their own unique
13 processes?

14 MR. BUMBICO:

15 That's exactly right.
16 And we feel very strongly that in order
17 for the safety process to be truly
18 effective, then it has to be something
19 that the employees buy into and
20 recognize as their own. So we've put a
21 general framework in place, a series of
22 guidelines, but we've encouraged each
23 of them to try to manage that process
24 in their own way, so that it fits with
25 their own culture.

1 We've got operations,
2 like I said, in six different states.
3 And there are frankly differences
4 between our people in the east versus
5 our people in the west versus our
6 people in Wyoming. So we've encouraged
7 them to try to recognize those
8 differences and make the most of their
9 strengths.

10 MR. DISTASIO:

11 Thank you.

12 MR. FEEHAN:

13 I have a question.
14 Would you talk a little bit about how
15 you train your observers. What's that
16 training like? How do you choose your
17 observers and what's that program?
18 What's that part of your program about?

19 MR. BUMBICO:

20 Initially we had some
21 selection of what we thought would be
22 good candidates to be observers and we
23 encouraged people to become involved.
24 When we started this, we didn't have a
25 rush of volunteers coming forward. As

1 we've gone on, however, we've had more
2 and more people become involved.

3 Generally we start with
4 a general overview of the process to
5 orient all the employees to the
6 process. And then there's more
7 specific training on how to approach an
8 individual to conduct an observation,
9 how to deal with somebody that might be
10 resistant, that might be a difficult
11 person to observe.

12 We teach our people to
13 do this in a manner that's not speaking
14 up, to ask permission to conduct the
15 observation, and trying to give them
16 some of the interpersonal skills to be
17 able to deal with people on providing
18 feedback and encouraging them to
19 provide positive feedback of safe
20 behaviors. And those are all
21 interpersonal techniques that have to
22 be taught.

23 We also teach them how
24 to use the software from a data
25 analysis identification and problem

1 solving standpoint.

2 MR. FEEHAN:

3 All right.

4 MR. FETTY:

5 I have a question. Can
6 you talk a little bit about what this
7 has done as far as your violation rate?
8 Have you seen a reduction in the
9 number of violations that you receive
10 at your sites?

11 MR. BUMBICO:

12 Well, we've been able to
13 maintain what was already a pretty good
14 rate in terms of violations. I think
15 that we've seen a lot of stepped up
16 enforcement over the past three to four
17 years. Additional scrutiny from the
18 agency is the result of something that
19 maybe would happen. And I think within
20 that context, we've been able to
21 maintain what we considered was an
22 already pretty small violation area.

23 We've had some
24 operations that have actually adopted
25 these same techniques for injury

1 prevention for violation reduction.
2 Our Dugout Mine in particular, we find
3 some of these same techniques in recent
4 violations.

5 MR. FETTY:

6 And also, have you
7 involved MSHA at all in any of your
8 sites into a Behavior-Based Safety
9 program, like Mr. Becker or maybe
10 someone from the district?

11 MR. BUMBICO:

12 We have some operations
13 that actually conduct observations of
14 the inspectors. We try to share with
15 MSHA what we're doing. I know we've
16 had --- Kevin Strickland has been to a
17 couple of our mines and has asked
18 questions about our process with the
19 people involved. We had Joe Main who
20 was at our Safety Summit last year, and
21 he got to see some of what we're doing.

22 So we have tried to share this with
23 MSHA.

24 MR. FETTY:

25 And one final question.

1 You stated earlier that you don't
2 compare the performance of one mine to
3 another. But do you set like a bar
4 from a corporate standpoint in each
5 individual mine as required to, you
6 know, meet or exceed that particular
7 level of achievement? Or do you set
8 indicators for each individual mine,
9 and do they have to meet or beat their
10 own indicators?

11 MR. BUMBICO:

12 They have to meet or
13 beat their own indicators. And what we
14 do is we try to hold up the ones that
15 are doing well as examples and drag on
16 them, and it kind of flows naturally.
17 When people see an operation getting
18 recognition for doing something the
19 right way, they tend to emulate what
20 they're doing. So we try to use that
21 type of positive feedback as a way to
22 encourage good performance across the
23 board and share best practices.

24 MR. FETTY:

25 Thank you.

1 MR. BURNS:

2 Tony, do you have any
3 recent statistics on the ratio of near
4 misses to number of incidents or number
5 of injuries in your various mines?

6 MR. BUMBICO:

7 We keep near-miss
8 statistics. I don't know that we've
9 sat down and compared the number of
10 near misses we've having to the number
11 of injuries we're having, but we
12 encourage near-miss reporting. We've
13 seen a general increase in the number
14 of incidents that are being reported.

15 And I think a lot of
16 this has to do with trying to instill a
17 confidence factor in employees, that if
18 they report something that might make
19 them look a little foolish, that
20 they're not going to have retributions
21 as a result of it. So we try to treat
22 that as a no name type of situation,
23 too. And we've seen a general increase
24 in the number of those incidents.

25 MR. BURNS:

1 The other question I had
2 for you is am I correct that when you
3 made the presentation of the various
4 operations there's a differing level of
5 who is involved from a management
6 standpoint, whether it be the Vice
7 President of Operations or the
8 superintendent or somebody else; is
9 that correct?

10 MR. BUMBICO:

11 Well, I think the role
12 that I referred to was the role of
13 management sponsor. And that's kind of
14 an advocate on the management team that
15 can run interference if they're seeing
16 any difficulty in selling some of their
17 ideas or some of their recommendations.
18 And in most cases, that ended up being
19 the general manager of the site.

20 In some other cases,
21 that was one of the process improvement
22 directors. And that decision was made
23 on an operation-by-operation
24 basis. It was based upon who they felt
25 their best advocate was.

1 MR. BURNS:

2 Okay. I was wondering
3 if you noticed any correlation as far
4 as maybe the sites that have the
5 highest level of management involved
6 that maybe are performing better than
7 the others or anything like that?

8 MR. BUMBICO:

9 No. The one case where
10 I can recall that, one of our process
11 improvement directors was assigned as a
12 management sponsor. He actually
13 matriculated to the general manager's
14 role in a couple of years. So that was
15 kind of seen as a developmental role
16 that that person could fit into.

17 MR. BURNS:

18 One other question. You
19 stated that this system has been in
20 place for four years, and obviously
21 you've made some changes based on
22 audits and system reviews. Anything
23 that you identified in there in your
24 program that weren't working or you
25 found were barriers to the system that

1 you corrected overall, in general?

2 MR. BUMBICO:

3 I think the biggest
4 mistake we made during implementation
5 was not involving the supervisors to
6 the degree they should have been. And
7 we've since gone back and corrected
8 that. But initially, there was some
9 confusion as to what their role was in
10 the process. And we had to go back and
11 clarify how the process was there to
12 help them and give them ideas on how
13 they could support the process.

14 MR. BURNS:

15 Okay. Thank you very
16 much. Anybody from the audience? All
17 right. Thank you very much, Tony. We
18 appreciate it. Our next speaker will
19 be James Gallik with the Ironworkers
20 Local No. 3.

21 MR. GALLIK:

22 Good morning. Can
23 everyone hear me okay?

24 MR. BURNS:

25 Yes.

1 MR. GALLIK:

2 My name is Jim Gallik.
3 I'm with the Iron Workers Joint
4 Apprenticeship, right here in
5 Pittsburgh, Pennsylvania. I was asked
6 to give this PowerPoint presentation
7 for Frank Migliaccio, our National
8 Director of Safety in Washington, D.C.
9 Frank couldn't be with us today, so I'm
10 here to give Frank's presentation.

11 Apparently, it's not
12 going to work until I put my memory
13 stick back in, but while I'm preparing
14 this, I'm going to give you a little
15 bit of a different presentation than
16 you're used to hearing or used to
17 seeing. From what I can see, we're a
18 little bit different. We're not a mine
19 owner, naturally. We don't do mining
20 operations, but we provide construction
21 services at many mine sites across the
22 country, so ---.

23 I'm going to give
24 Frank's PowerPoint presentation, but
25 I'm going to venture off a little bit,

1 because I'm a trainer by trade. So I'm
2 going to go off the presentation a
3 little bit and give you some training
4 ideas as well.

5 This is about the hazard
6 awareness challenges that the
7 Ironworkers union program has. And
8 we're going to start off with a
9 gentleman called Walter Wise. He's our
10 General Secretary. He's also a trustee
11 of our National Training Fund. But
12 more importantly, for this meeting,
13 he's the chairman of the Iron Workers
14 MSHA committee. He served an
15 ironworker apprenticeship from '74 to
16 '76, and he worked in the coalfields
17 from '81 to '89. So Walter, who's our
18 international representative with MSHA,
19 is very familiar with the hazards
20 associated with working in your mines
21 and on your sites.

22 Just a little brief
23 history. We were formed February 4th,
24 1896, right here in Pittsburgh. We
25 only had six locals and only

1 represented 3,650 members. Okay.
2 However, when we were formed, safety
3 was the number one issue. Okay. And
4 in 1911, our organization was losing
5 one percent of its membership a year to
6 jobsite fatalities.

7 To compare that to
8 today, 174 local unions totaling 95,500
9 active members, safety is still our
10 number one issue. And 100 years later
11 in 2009, we had 12 fatalities or only
12 .0125 percent of our membership. And
13 once again, our guys are employed by
14 thousands of contractors under
15 collective bargaining through local
16 union hiring halls.

17 Just some of the things
18 we do. We erect structural steel. We
19 install concrete steel reinforcing
20 bars. We install and move heavy
21 machinery. We install metal siding,
22 glass curtainwalls, conveyors as well.
23 We erect metal siding and glass
24 curtainwall and we erect metal
25 buildings.

1 I'm going to explain a
2 little bit to you about our safety
3 program that's nationwide. It starts
4 with IMPACT, which is the Ironworkers
5 Management Progressive Action
6 Cooperative Trust. They fund our
7 national training program.

8 Okay. Now, I'm sure our
9 safety training is going to be a lot
10 different than a lot of the companies
11 have in place because one of the things
12 you have to realize is our members work
13 for several different contractors and
14 on several different sites throughout
15 the country.

16 And I know it was
17 mentioned earlier that some sites have
18 low incident rates and very good safety
19 programs, and other sites have higher
20 incident rates and not so good safety
21 programs. And the same thing with the
22 contractors we work for. Some of those
23 have very low incident rates and good
24 safety programs, and some of them not
25 so good.

1 So we have to take the
2 burden of training on outside the
3 employer. We need to take the burden
4 of training and safety awareness and
5 prepare our members for any type of
6 contractor or any type of site they
7 might be working on.

8 Our national training
9 fund is responsible for three types of
10 training to enable our members to work
11 safely. One is through apprenticeship,
12 another is through journeyman upgrading
13 and a third is issuing safety
14 certifications.

15 Now, this is what I do
16 for a living, and that's why I'm going
17 to try to expand on this a little bit,
18 because I'm responsible for all the
19 training in this region. And I'm
20 assuming from what I've heard so far
21 this morning that most of you in the
22 audience today are safety professionals
23 or maybe direct safety programs at mine
24 companies and on sites across the
25 country. But I'm more of a trainer.

1 And one of the things
2 that I've learned and I give
3 presentations on about training is I'm
4 working much like the people working in
5 your mines. I like to call it a three
6 dimensional occupation where, you know,
7 we're always working with our hands.
8 We're always working with visible
9 items, and we're doing things.

10 But what I notice within
11 the Ironworkers and what I've been
12 working to change is most of our safety
13 training was two dimensional. Okay?
14 And if you follow me on this, you'll
15 see where I'm going with it, but most
16 of our training programs were two
17 dimensional by using PowerPoints,
18 which I do use. I'm a big fan of them
19 for training, because it's two
20 dimensional. Reading papers and
21 reading notes, it's all two
22 dimensional.

23 Now, there's lots of
24 occupations that are two dimensional.
25 And not to be derogatory to anybody,

1 but safety professionals and people
2 such as, you know, in this room, you're
3 accustomed to this type of environment.

4 And for you to sit through a training
5 program that's set up two dimensional,
6 you're at home and you're comfortable,
7 and you may get a lot out of it.

8 But when you take a
9 three dimensional worker such as a
10 miner or an ironworker or any other
11 trade and you put him in a two
12 dimensional training, a lot of times
13 they don't get what you're trying to
14 get.

15 I'm not a numbers guy.
16 I'm not a metrics guy. I'm not a
17 statistics guy, but I train a lot. And
18 so one of the things that we try to do,
19 and it seems to work extremely well, is
20 we set up our training to be three
21 dimensional as much as we can. We try
22 to create a training atmosphere that's
23 conducive to learning for the three
24 dimensional worker; lots of visual,
25 lots of three dimensional mockups in

1 the classroom, lots of hands-on
2 activities, lots of things.

3 You know, we looked back
4 to --- you know, we looked at the type
5 of individuals that we're trying to
6 create safety training for. Look at
7 the type of individuals. Look at where
8 they came from.

9 And I know speaking for
10 Ironworkers (and I'm sure this would
11 apply to miners as well), but we have a
12 lot of individuals that maybe back in
13 high school or maybe back in their
14 school days, they didn't adapt well to
15 the academic type of classroom, you
16 know. The type of individual that when
17 they walked into a classroom and all
18 they seen was a chalkboard and a podium
19 and a screen and an instructor, they
20 kind of shut down a little bit.

21 But the same individual
22 that would walk into a metal shop or
23 wood shop and look around and see all
24 the stuff and say, wow, this is, you
25 know, this is me. This is where I feel

1 at home. So you know, we try to
2 structure our training the exact same
3 way. We try to put them in an
4 environment that they're used to. Now
5 we do that in our
6 Apprenticeship and we do that in our
7 journeymen upgrading as well.

8 In years past, we had
9 lots of training programs for the
10 journeymen that had 15, 20, 25 years
11 experience. We'd bring them into a
12 room. We'd put a PowerPoint up on the
13 board, and we'd --- you know, we'd put
14 papers in front of them and sit them at
15 a desk. And we tried to give them
16 refresher safety training, and they'd
17 zone out, and they don't get it.

18 Okay. We then adapted
19 our training, and like I said, it's
20 three dimensional. And we found out
21 now that when you take a guy that's
22 been doing this for a living for 25, 30
23 years and you try to bring him in a
24 classroom and try to retrain him, you
25 know, they don't want to hear it. Hey,

1 I've been doing this for 25 years.
2 You're not going to teach me anything.

3 But when you adapt your
4 training to their way of life, to what
5 they're used to in the field in a three
6 dimensional training, you'd be
7 surprised at the response that we get
8 from guys, saying, wow, I didn't
9 realize either how much I didn't know
10 or how much I forgot. Because we
11 didn't really present any different
12 material, we just presented it in a
13 different way, and we adapted our
14 training to the type of individuals
15 that we're trying to train.

16 Some of the things that
17 the National Training Fund makes
18 available to us is instructor training
19 with a standardized curriculum,
20 training materials, recordkeeping,
21 program audits to make sure that all
22 across the country we're all doing what
23 we need to do. This is handed down to
24 the local unions, to the local union
25 joint apprenticeship, which is what I

1 do. And then it's our job to
2 distribute it to our local union
3 membership.

4 Our National Training
5 Fund, we conduct train-the-trainer
6 classes at three regional training
7 centers. We spend a lot of time and a
8 lot of resources making sure that our
9 trainers are professional and can do
10 the job.

11 Our three training
12 Centers; Saint Louis, Oakland,
13 California and Northern New Jersey,
14 instructors continually from across the
15 country attend these training
16 facilities and get upgrade training on
17 how to be better instructors.

18 We also have an annual
19 instructor seminar. This year it was
20 at Eastern Michigan University and
21 Washtenaw Community College. And
22 there's just a picture of one that was
23 held back in San Diego a few years back
24 with all the instructors that we bring
25 together to teach them professionally.

1 In addition to the three
2 and four-year apprenticeship programs,
3 which require 204 hours of classroom
4 instruction and journeymen skills
5 upgrading, okay, we offer
6 certifications. And one of the things
7 that we noticed in our apprenticeship
8 and journeymen upgrading training over
9 the years is the face of training has
10 changed. Fifteen (15), 20 years ago
11 and even further beyond that, our
12 training was basically skills-oriented
13 training to give them the skills to go
14 out and perform the job. That changed.
15

16 Our training is strictly
17 all safety-based oriented, and a
18 majority of our time instructing our
19 apprentices and our journeymen is not
20 just acquiring skills needed to do
21 their job, but it has to do with
22 welding certifications. We offer 40-
23 hour HAZMAT training, lead hazard
24 training, OSHA-10 and OSHA-30 training,
25 CPR/First Aid, scaffold

1 user/erector/dismantler training,
2 post-tensioning installation, sub-part
3 R steel erection, aerial lifts and MSHA
4 safety training as well.

5 So we took a lot of our
6 skills training --- and I'm not sure
7 exactly in the mining industry how much
8 skills training you have. If a guy's
9 going to be getting on to a new task,
10 you may have different types of
11 training, but we base all of our
12 training strictly on the safety aspect
13 of it, on that end.

14 And this is just some
15 examples on the PowerPoint of our
16 training centers and what we do. And
17 we try to create journeymen ironworkers
18 that are professional, have a good
19 attitude and have skills.

20 Our International
21 Association and local unions dedicate
22 nearly \$50 million a year to membership
23 training, money that was negotiated
24 through collective bargaining
25 agreements and allocated by the

1 membership to training. And like I
2 said, a majority of that training is
3 strictly from the safety standpoint.

4 These are some of the
5 things that we do in your mines. We
6 make conveyors, shaft and table change
7 outs, maintenance, installation, and
8 actually a little bit of everything.

9 We have an approved
10 training plan. The Iron Worker 30 CFR
11 Part 48B Plan has been expanded to also
12 meet the requirements of 30 CFR Part
13 46.

14 We have 83 local unions
15 that have approved training plans. We
16 have one right here in Pittsburgh. Our
17 union has an approved MSHA training
18 plan. We have approved MSHA
19 instructors. Once again, we have one
20 right here in Pittsburgh as well, in
21 our apprenticeship. Ray Walters
22 (phonetic) is our approved MSHA
23 instructor when we do give new miner
24 training.

25 Two hundred ninety Iron

1 Worker

2 instructors have been certified and
3 approved by MSHA. Our membership
4 training is incorporated into local
5 union apprenticeship classes. 7,745
6 ironworkers have completed new miner
7 training and refresher classes. And
8 they also receive a new miner training
9 card when they complete our training.

10 Since 2000, union
11 ironworkers have worked over 13 and 1/2
12 million man hours on mine sites, and
13 we've only suffered one fatality, and
14 we're very proud of that. We're hoping
15 to strive that we can have a
16 presentation in the future and have
17 zero fatalities.

18 A couple things that
19 they wanted me to bring up was the
20 hazard awareness challenges. What's so
21 hard about preventing worker accidents?
22 You know, does the worker want to be
23 hurt? We all know the answer to that.
24 Does his employer want anybody hurt?
25 No as well. And does the owner want

1 anyone hurt? Okay.

2 Accidents do happen
3 everyday. These next few slides that
4 he put in there are a little bit
5 gruesome, so I'm going to kind of go
6 through them quickly, but ---.

7 The gentleman from the
8 Steelworkers that first spoke, he made
9 the comment that they interviewed ---.
10 They did a survey with accidents, and
11 they said over 60 percent of the
12 respondents said they knew they were
13 doing an unsafe act. And he said that
14 number was probably higher than 60
15 percent. And to some people you may
16 think, well, that sounds a little
17 unreasonable. It sounds a little high,
18 that that many people knowingly do an
19 unsafe act.

20 But if you think about
21 yourself at your own home, and if you
22 really think hard about it, how many
23 times you knowingly commit an unsafe
24 act? Maybe something as simple as
25 getting out the weed whacker to cut

1 your grass and not putting safety
2 glasses on or a shield over your face.
3 That's an unsafe act, but yet we do it
4 every day. Or maybe getting out
5 your stepladder to go up and maybe
6 clean out your gutters, and you go one
7 step too high where they tell you
8 you're not supposed to. Or even as
9 simple as taking the stepladder and
10 leaning it forward, leaning it against
11 the house to go up, which is an unsafe
12 act. The stepladder is only supposed
13 to be used opened up.

14 But we ourselves do it
15 every day at our house. And workers
16 are going to continue to do it on
17 jobsites unless we can correct the
18 behavior. Because for every 600-near
19 misses, for every 1,000 unsafe acts, or
20 600 near-misses, there's 30 minor
21 injuries, there's ten serious injuries
22 and there's one fatality.

23 I was at a safety
24 presentation one time. I just want to
25 share this with you. And the gentleman

1 that gave the safety presentation he
2 had a plastic jug, and in it was 1,000
3 little balls about the size of a
4 marble. And in those, there were 600
5 that were painted the one color, 30
6 that were painted another color, 10
7 that were painted another color, and
8 there was one --- just one of those
9 balls out of a thousand was painted
10 red.

11 And in that safety
12 presentation, he went around the room,
13 and as he's talking and giving his
14 presentation just randomly sticking
15 that jug in front of somebody and
16 saying pick out a ball. And you could
17 see the hesitation on somebody's face
18 when they stick their hand in that jar
19 thinking, boy, I hope I don't pull out
20 the red one.

21 And he said that every
22 time that a worker commits an unsafe
23 act, they're sticking their hand in
24 that jug. And they're taking a risk of
25 pulling out that one red ball. With

1 the worker behavior on the jobsite you
2 tend to think it's not going to happen
3 to me, but in that safety presentation
4 when you're sticking your hand in that
5 jug, you realize, hey, wait a second.
6 There is a slight chance that what I'm
7 about to do is going to result in
8 pulling that red ball out of the jug.
9 It's going to result in a fatality.
10 And you got to start changing the
11 behavior of the worker.

12 Okay. No one wishes
13 accidents to happen, but who's to
14 blame? Okay. It's human behavior.
15 You have to correct the human behavior.
16 And like I said, we all do the same at
17 home. We all lean a stepladder up
18 against the house and go up a step or
19 two. We all might mow the lawn with
20 the mower or trim the grass and not put
21 safety glasses on.

22 We need to correct that
23 within our workers. We need to modify
24 our human behavior. We need to define,
25 correct behaviors. We need to train

1 those behaviors.

2 And the next bullet
3 point says punishment or reward. We
4 try to establish an alternate. If you
5 continue to do unsafe acts, you don't
6 work. It's different with us, because
7 our members work for several
8 contractors. And our contractors are
9 starting to, you know, take the
10 responsibility of, hey, you did an
11 unsafe act. You're gone. And our
12 union follows the same principle. And
13 then you just pray it works, because
14 eventually it does.

15 Some of the challenges
16 that existed with the building trades,
17 the construction trades coming on to
18 your sites to do work on mine sites.
19 Some of those transitions ---. Some of
20 those challenges that existed were
21 worker attitudes, OSHA contradictions
22 because we're familiar with the OSHA
23 standards, and there are some
24 differences amongst the MSHA standards.

25 Our members were exposed

1 to a new environment with lots of
2 unfamiliar equipment and an assumption
3 that they knew everything about safety
4 and hazards. And by the same token,
5 for people that work in the mines,
6 whenever a construction company might
7 come in to perform construction, they
8 have the same barriers. They have
9 worker attitudes. There's MSHA
10 contradictions with the OSHA standards
11 that we had. Your mine workers might
12 be exposed to a new environment. They
13 might be also around unfamiliar
14 equipment as well and an assumption of
15 knowledge from their standpoint.

16 So as a result of that,
17 the MSHA-Iron Worker Alliance was
18 established on July 18th, 2004, and
19 this is when two enemies came together
20 to form a safety alliance. It was
21 designed to share best practices and
22 technical knowledge, develop and
23 disseminate safety and health
24 information and foster a culture of
25 prevention.

1 Just this year in
2 Michigan in our annual instructor
3 training program, we did have MSHA
4 train-the-trainer class. We had five
5 master instructors, two ironworkers,
6 three were employees of MSHA. It
7 included 20 hours of MSHA classroom
8 training, but additionally, it included
9 20 hours of what we call personal
10 development classes taught by college
11 professors on how to present the
12 material. It just happened the
13 material that they were presenting it,
14 you know, to me is everything, which
15 was why I talked before about having a
16 3-D atmosphere to make it an easier
17 training.

18 Instructor qualifications
19 for us with the MSHA program, you have
20 to be at least a local union
21 apprenticeship instructor a minimum of
22 five years. You need to be recommended
23 by the joint apprenticeship committee.
24 You have to have worked in the trade
25 at least five years, and you have to be

1 an OSHA 500 instructor and a First
2 Aid/CPR instructor as well.

3 And strictly to insure
4 that everyone returns home every day
5 from work. And that's brought to you
6 by the Iron Workers Union and IMPACT.
7 Thank you.

8 MR. BURNS:

9 Thank you very much,
10 Jim. Does anybody have any questions
11 for Jim?

12 MR. DISTASIO:

13 I have a couple.

14 MR. BURNS:

15 Okay.

16 MR. DISTASIO:

17 Jim, I know you said
18 you're a three dimensional guy. Did
19 you do any sort of analysis of the
20 change in your accident rates when you
21 went --- from when you went to skills
22 training to safety training to now this
23 three dimensional training? Have you
24 noticed any improvement?

25 MR. GALLIK:

1 I myself don't have any
2 statistics on that particular thing.
3 What I've noticed was just worker
4 reaction that received the training.
5 You know, we found out that --- and
6 especially with the journeymen, who
7 think they know everything, they have
8 all the experience, and you're wasting
9 their time by giving them additional
10 training. When the training was
11 complete, the response was the same as
12 it was before. Hey, you're wasting my
13 time. I just wasted ten hours on a
14 Saturday, you know. Keep in mind when
15 our guys do training, they're doing it
16 on their own time. They come in to the
17 union hall. They're not on company -
18 -- on anybody's payroll, so to them
19 it's a real burden.

20 And just from their
21 reactions as far as, you know ---. It
22 was just as I thought, you know, you
23 wasted my time, you didn't teach me
24 anything new, to, when we went to the
25 three dimensional approach, to them

1 saying, wow, I really learned
2 something. I'm glad I came. When they
3 gave up a Saturday when they could be
4 home doing something, and at the end of
5 the entire day say, wow, I really
6 learned something.

7 And the biggest effect
8 that we noticed was they were going
9 back out on the field the following
10 week and telling their fellow
11 journeymen, hey, that's a pretty good
12 class. You ought take the time, and
13 you ought to go take it.

14 So that to me was the
15 satisfaction, that we were successful
16 with giving the three dimensional
17 training. Because they retained
18 something, and they passed it on to one
19 of their colleagues, said, hey, you
20 need to do this as well.

21 MR. BURNS:

22 Jim, on the training for
23 your people when they go, I'm assuming
24 for the mine safety training, you do 20
25 hours of training and then four hours

1 of site specific, probably done by a
2 contractor; is that correct?

3 MR. GALLIK:

4 When we do our new miner
5 training to our members, there was a
6 video that was developed between the
7 Ironworkers and MSHA that was approved
8 by MSHA that takes the place of the
9 actual mining facility tour. And it's
10 a video that pretty much encompasses
11 everything that they may come across on
12 a mine site.

13 And actually, the actual
14 training is 30 hours. The train-
15 the-trainer was 20 hours. The actual
16 training that we do with the MSHA
17 program is actually a 12-hour MSHA-
18 oriented training. We have ten hours
19 of OSHA training, eight hours of First
20 Aid/CPR, and then the video, which
21 suffices for the actual tour of the
22 mine.

23 MR. BURNS:

24 Okay. Thank you very
25 much. Anybody else have questions?

1 Anybody from the audience have any
2 questions? Okay. Thank you very much.

3 I think people need a break, and I'd
4 like to ---. Go ahead, Jim.

5 MR. GALLIK:

6 I'd just like to add one
7 thing. I don't know where everybody
8 came from today and how long they're
9 going to be around or how long this is
10 going to take place, but our training
11 facility is two miles up --- not even
12 two miles up the road. We're at 2315
13 Liberty Avenue, which is where I'm
14 going to be going after this is over.

15 And you know, if you
16 just want to get an idea of what our
17 classrooms look like that we conduct
18 this training and get an idea of what
19 it looks like when you walk into a
20 classroom and see 3-D training. If
21 anybody is interested, you're welcome
22 to come up and take a look. I'll be
23 glad to give you the tour.

24 MR. BURNS:

25 How far away is that?

1 MR. GALLIK:

2 Probably not even a
3 mile, a mile and a half. You know, if
4 you go down William Penn Place to
5 Liberty Avenue, and if you go up
6 Liberty Avenue to 23rd Street, we're
7 between 23rd and 24th Street, so ---.
8 If you want to see some 3-D training
9 rooms, we have lots of them.

10 MR. BURNS:

11 Thanks a lot. As I said
12 before, I'm going to take a ten-minute
13 break. And unfortunately, there's no
14 clock in here, but I think everybody
15 carries cell phones or wears a watch,
16 so if you could please stick to that.
17 And if this goes on for another two
18 hours, we'll take another break. But I
19 want to give the court reporter a
20 little bit of a break, because she's
21 over there typing away and trying to
22 keep up with everything we're saying.
23 So let's come back in ten minutes.
24 That will be five to 11:00. Thanks
25 very much.

1 SHORT BREAK TAKEN

2 MR. BURNS:

3 Okay. Our next
4 presenters are going to be a tag team
5 from Vulcan Materials. First, we've
6 got Truman Chidsey. And some of you
7 may have known Dick Seago (phonetic).
8 Dick Seago retired and he replaced
9 Dick. And his tag teammate will be
10 Kelly Bailey, who will be handling most
11 of the health issues; is that correct,
12 Kelly?

13 MR. BAILEY:

14 Correct.

15 MR. BURNS:

16 So please go ahead and
17 start.

18 MR. CHIDSEY:

19 Thanks, Kevin. Good
20 morning. My name is Truman Chidsey, C-
21 H-I-D-S-E-Y, and I'm the Corporate
22 Director of Safety Services for Vulcan
23 Materials Company. I appreciate the
24 opportunity to share with this group
25 what Vulcan has developed and

1 implemented over the years as far as a
2 safety management control system. As
3 Kevin said, Kelly Bailey is going to
4 follow me up and discuss our health
5 management control systems.

6 Throughout my
7 presentation you're going to hear ---
8 hear me say and see the word SHE, S-
9 H-E. That's obviously for safety,
10 health and environment. And I'm just
11 going to focus on the safety part.

12 Just a real quick
13 introduction to Vulcan Materials.
14 We're a publicly traded company since
15 1956. We're based in Birmingham,
16 Alabama. We're the nation's largest
17 producer of construction aggregates.
18 We're a major producer of asphalt and
19 ready-mix.

20 We have 334 aggregate
21 production and related facilities
22 serving 22 states, including District
23 of Columbia, Bahamas and Mexico. Out
24 of those 334 facilities, actually 234
25 of them are MSHA regulated facilities.

1 Current numbers, we
2 employ about 8,000 company-wide
3 employees. A couple of years ago it
4 was much higher.

5 What our management
6 control system ---. And if you're like
7 me, I was introduced into the world of
8 safety by Mr. Frank Byrd and Mr. George
9 Germain, with Vulcan. Practical Loss
10 Control Leadership; for any company
11 that is looking at starting a loss
12 control program or management system,
13 this is basically a textbook on how to
14 do it.

15 But anyway, we would
16 define management controls as a basic
17 function of management. And you do
18 that through planning, organizing,
19 leading, directing and controlling.
20 And it's the controlling part of
21 management systems that I'll focus on
22 today and share with you what, you
23 know, management control systems Vulcan
24 has developed over the years and is now
25 a part of our process.

1 The controlling as far
2 as function is not something we do to
3 employees, but it's something we do to
4 work process in order to achieve the
5 safety and health that we want.

6 Now, keep in mind that
7 an organization can't create management
8 control systems overnight. It takes
9 some time. But the first and foremost
10 important step is that there must be a
11 desire for a company to control its
12 losses.

13 Now, I've been involved
14 in several acquisitions in my 15 years
15 in safety and health for Vulcan
16 Materials in both large and small
17 companies. I've found that
18 organizations say that they have a
19 desire to control losses. They look
20 good on paper. They've got their
21 policies and procedures in binders up
22 on the bookshelf. But when you
23 actually start looking into the
24 processes and going back, you find that
25 the processes are lacking in many

1 cases.

2 But this process has
3 been evolutionary over time, and I feel
4 that we're still at the early stages of
5 this process. And one factor that has
6 affected this process is that since
7 1956, we have organized our company
8 into eight decentralized divisions.
9 And as far as producing and marketing
10 our products, this has worked well and
11 is a key component of our business
12 strategy. But we've also had eight
13 different ways of dealing with safety,
14 and eight different ways of how to
15 invent the safety wheel.

16 But about five years ago
17 we started the process of bringing the
18 divisions together as far as safety and
19 working toward developing safety
20 management systems as one company,
21 rather than eight separate companies.

22 Five steps that lead to
23 control of an activity for management
24 are identifying and specifying the
25 program elements and activities to

1 achieve the desired results,
2 establishing performance standards,
3 measuring performance, recording and
4 reporting, evaluating performance as
5 measured compared with established
6 standards. And when we do have good
7 results, commending those desired
8 results, but also constructively
9 correcting substandard performance.

10 There have been a number
11 of studies made to determine the
12 components of a successful safety
13 program. These activities or program
14 elements that you see on the screen
15 have been identified in these studies
16 that when properly done, have been
17 repeatedly proven to achieve optimum
18 results not only for safety and loss
19 control, but also for quality,
20 production and cost control.

21 The highlighted elements
22 are the ones I'll touch on today real
23 quickly. Vulcan has management systems
24 in place that are listed. Leadership
25 and administration. Vulcan's conviction

1 is that an effective commitment to a
2 strong safety and health stewardship
3 must start at the top and then embraced
4 by every employee in the company. And
5 Vulcan has done that by establishing
6 separate committees at different
7 levels.

8 The first committee that
9 was established was the Board's SHE
10 committee. Vulcan was one of the first
11 public corporations to establish at the
12 Board of Directors level --- in fact,
13 it was established in May of 1990 --- a
14 separate committee to review and
15 monitor management stewardship,
16 policies and performance.

17 The company's
18 commitment to responsible safety and
19 health stewardship is led by our
20 Board's SHE committee. The current
21 member of that committee are Mr. Allen
22 Franklin who chairs the committee.
23 He's the retired chairman and the CEO
24 of Southern Company, Mrs. Ann
25 McLaughlin Korologos, who is a former

1 U.S. Secretary of Labor and is
2 currently the chair of RAND Corporation
3 Board of Trustees, Mr. Richard T.
4 O'Brien, the president and CEO of
5 Newmont Mining Corporation and Mrs.
6 Kathleen Wilson-Thompson, Senior VP and
7 Chief of Human Resources for Walgreens.

8 And their
9 responsibilities include reviewing the
10 company's policies, practices and
11 programs with respect to safety and
12 health affairs and monitoring
13 compliance with safety and health laws,
14 regulations and company policies. They
15 maintain a
16 strong relationship with their
17 counterpart in management, SHE
18 committee. This SHE management
19 committee is comprised of Vulcan's
20 senior managers that report to the CEO,
21 Don James.

22 Now, their
23 responsibilities include reviewing
24 company policies and practices and
25 programs, respective safety and health,

1 as well as monitoring compliance of the
2 safety and health laws and regulations,
3 but also dealing with challenging and
4 serious safety and health issues that
5 do arise from time to time.

6 Now, this is an important
7 process for any company that also have
8 an effective management system. Just
9 real quickly now corporate SHE staff is
10 organized. We have vice president of
11 SHE and engineering who reports to the
12 senior VP of operations. And my
13 position reports to the VP of SHE. The
14 director of industrial health and
15 hygiene, Kelly Bailey, reports to that
16 person. And we have a manager that
17 reports to that person as well. In
18 each department, we have specialists
19 that can help us get things done.

20 Many divisions that I've
21 mentioned spread out over across the
22 United States. Each division has their
23 own safety and health manager, and they
24 have their own staff and safety and
25 health representatives to keep us in

1 compliance with our own policies and
2 rules and regulations.

3 And you can see our
4 different business lines that we're
5 involved in. All the divisions are
6 involved in aggregate production, but
7 several of them are involved in ready-
8 mix. We do have two divisions that
9 have underground aggregate production
10 facilities. We're also involved in
11 Mexico with three cargo ships that
12 we're able to load in Mexico and
13 offload stone throughout the Gulf
14 states. And we're also in California
15 involved in landfills. So we're fairly
16 diversified.

17 One of the earlier
18 projects that SHE management committee
19 was asked to do was to write a SHE
20 policy. And I wasn't involved in the
21 process, but I'm sure it was not an
22 easy undertaking getting eight
23 different divisions together and
24 working that out.

25 But this policy was

1 established in 1995, and has remained
2 as such since then, you know. We
3 require all locations to post this
4 policy and periodically review it with
5 all employees.

6 And just some of the
7 excerpts out of that is strive to
8 produce its products safely and
9 maintain a concern for the public
10 health. Endeavor to provide employees
11 with a safe and healthy working
12 environment. Provide education,
13 training and leadership to employees to
14 enable them and motivate them to
15 understand and comply with the laws and
16 regulations. And promote the adoption
17 of, and adherence to, sound safety,
18 health and environmental practices by
19 onsite contractors and tenants.

20 And how that's
21 implemented is that the responsibility
22 for implementation of these policies
23 shall rest with the Presidents of the
24 company operating divisions. And it's
25 the responsibility of every employee to

1 comply with applicable laws, promote
2 these policies and report to management
3 any company practices that may be in
4 violation of laws or company policies.

5 So if a company is looking at having
6 an effective safety management system,
7 it needs to start with an effective
8 policy standard as well.

9 Establishing goals by
10 senior leaders is a very important part
11 of any safety management system, but it
12 is a challenge. But a challenge that
13 comes with that is ensuring employees
14 at all levels know what the goals are
15 and they understand what their role is
16 in achieving those goals, and that the
17 goals are embraced by every employee.

18 And just an example, one
19 method that was instrumental in getting
20 the message out to the employees and
21 that they knew about Vulcan's
22 commitment to injury reduction was
23 having every employee sign our NSSGA
24 safety pledge, which is to reduce the
25 MSHA injury incident rate by ten

1 percent each year. And by signing that
2 pledge, not only did we have, you know,
3 the CEO signing it, but every employee
4 in all our plants sign that pledge. By
5 having them do that, it got the
6 employees more engaged in the process.
7 And I think it meant more and added
8 more weight to it than simply just
9 seeing a list of goals on a piece of
10 paper posted on the wall.

11 Another tool that is
12 very powerful and that we have at our
13 disposal and we've used several times
14 is to put together safety videos
15 starring our CEO, who's emphasizing our
16 commitment to safety, you know,
17 reviewing safety and health
18 performance, use of PPE as a
19 recognition and control. We produce
20 these videos, DVDs and get them out to
21 every facility, but we also put it on
22 our company Internet where the employee
23 can view the video at any time. I
24 think when companies can get their
25 leaders, their CEOs to get up in front

1 and talk to their employees on safety,
2 it means a lot. It's very effective.

3 Starting in 2006, Vulcan
4 established best practice teams
5 comprised of experts from the
6 divisions. These teams meet regularly
7 to draw on the successes of the
8 divisions, to help develop best
9 practices, to discuss issues, and
10 basically to ensure we are headed in
11 the direction our SHE management
12 committee directs us. One important
13 aspect of these best practice teams is
14 that safety and health is represented
15 in almost all the teams, especially in
16 our operations team in that the
17 representative from our operation team
18 is a representative on our safety and
19 health best practice team.

20 One point I wanted to
21 make is that you can have all the
22 management systems you want, but if
23 safety isn't weaved into the fabric of
24 the operational processes, then you
25 will be fighting an uphill battle.

1 As mentioned earlier, one of the tenets
2 of our SHE policy is for all employees
3 to comply with applicable laws and
4 policies and report to management any
5 company practices that may be a
6 violation of laws or company policies.
7 And Vulcan's commitment to this policy
8 is reflected through our business
9 conduct program. And it deals with,
10 you know, several issues, such as
11 antitrust reporting or recordkeeping,
12 discrimination, sexual harassment, just
13 to name a few, but it also deals with
14 safety laws and policies.

15 And through a company
16 called EthicsPoint, employees can
17 anonymously call the helpline to report
18 any situation or violation. And a
19 process is started whereby all the
20 senior managers of the company, as well
21 as the applicable divisions, are
22 alerted of the situation. And
23 management does follow up and take
24 appropriate corrective actions. And
25 through EthicsPoint, the process is

1 documented from start to finish.

2 In addition to this,
3 each employee is required to
4 periodically complete a questionnaire
5 that specifically asks if they have any
6 knowledge of violations of laws and
7 company policies. And the same process
8 is followed in following up and
9 ensuring those corrective actions were
10 taken.

11 Worker involvement.
12 It's our practice that all, you know,
13 job descriptions have safety
14 responsibilities spelled out in job
15 descriptions and that all employees do
16 get annual evaluations and they're
17 evaluated on their safety performance.
18 We're very heavily involved with the
19 safety committees or SHE teams or
20 coordinators. To me this is a very
21 effective process where you get hourly
22 employees engaged in the safety program
23 at their facility where they can have a
24 say-so on their program and come up
25 with solutions to the problems that,

1 you know, they run into.

2 We also just recently
3 have gotten into behavior-based safety
4 programs and coaching. I think
5 behavior-based safety programs are kind
6 of new in the process. But I think one
7 of the benefits of the behavior-based
8 safety program is the fact that when
9 you have employees who are making
10 observations and they're looking at
11 proper PPE and out in the line of fire,
12 or you know, proper lifting techniques,
13 those kind of things that, you know,
14 when they go out and do that job, it
15 means more to them. And they retain it
16 better, the fact that they're going to
17 use PPE. They're going to use proper
18 lifting techniques. They're going to
19 stay out of the line of fire. And I
20 think that's a real benefit of
21 behavior-based programs. But it also
22 includes coaching, training that we
23 give employees, how to give proper
24 coaching and proper feedback. And our
25 goal is to continue with behavior-based

1 programs each year.

2 Hazard prevention and
3 control I'm sure that you have many
4 companies talking about SLAM and TAKE
5 TWO (phonetic) during these meetings,
6 but they are very effective.

7 And getting employees to
8 stop what they're about to do, think
9 about the hazards, think about the
10 actions they're going to take and how
11 to control those hazards. And one
12 thing that we implemented about four
13 years ago are work plans. And what our
14 work plans have done for us, I think,
15 has been very instrumental in reducing
16 the number of injuries that we have
17 seen in our Repair, Maintenance,
18 Construction period.

19 If you look at our
20 statistics, you know, over the years,
21 we've roughly run --- about 60 percent
22 of our injuries are involving repair
23 and maintenance. And the work plan was
24 a tool that we adopted to get employees
25 to not jump into the job, but stop and

1 go through the process of a risk
2 assessment, identifying what the tasks
3 are in doing the job. Identify the
4 hazards. Identify how you're going to
5 control the hazards and document that
6 into a work plan. And then the most
7 important part is working the plan. So
8 this has been a very beneficial tool
9 for our divisions.

10 Something else that we
11 started in about 2006, is our SHE
12 manual. As I mentioned, each division
13 had their own safety and health
14 policies. And as I said, in 2006, we
15 started the process of gathering all
16 those policies and procedures and
17 picking the best one and organizing
18 them into a Tier One, Two and Three
19 process.

20 Whereas a Tier One is a
21 policy or procedure or practice that
22 would be implemented and followed by
23 all facilities involved A Tier Two
24 would be a division policy that if they
25 want to take a Tier One and make it

1 more restricted, then they have that
2 option both ways. Our goal is to write
3 a Tier One, so that it will apply to a
4 Tier Two as well, and they won't have
5 to write a Tier Two. But a tier three
6 is any specific procedures or policies
7 that a plan may have. They can write
8 their own Tier Three.

9 And what this has done
10 for us? I think every company has gone
11 through this. When you do put together
12 policies and procedures, they typically
13 get put in a manual on paper format.
14 And they get put on a bookshelf, and
15 rarely do they get looked at or
16 updated.

17 And our SHE manual is
18 all electronic, it's on our Internet.
19 So anyone can get on there and go to a
20 SHE manual link. Click on that. It
21 will bring up the corporate Tier One
22 policies and procedures and also the
23 division tier two. Each division has a
24 tab where they can house their Tier Two
25 policies and procedures. But if you

1 look at another level, into the Tier
2 One under safety, it pulls up all our
3 Tier Ones that we have under general
4 safety. And the one that I highlighted
5 is, you know, is our standard to work
6 on an electrical distribution system
7 above 600 volts. Click on that. And
8 then pull up the most recent policy,
9 procedure and practice that we have in
10 place.

11 I think the committee
12 would essentially then get a document
13 control. That is kind of as handled as
14 when we implemented this process, we
15 also implemented a document control
16 process where each Tier One is assigned
17 its own separate document number. And
18 that any revisions that are made to a
19 Tier One, Tier Two or Tier Three is
20 captured and documented on the revision
21 page. So it always makes sure that we
22 always have the most updated and
23 revised tier one on our Internet so
24 someone is not looking at an outdated
25 copy of it.

1 Another tool that we
2 have in our hazard prevention and
3 control has to do with engineering
4 controls. Engineering controls are a
5 very important part of an effective
6 safety management system. Where
7 hazards are controlled by PPE or
8 administrative controls, that means
9 there's an opportunity to make some
10 changes to equipment and machines to
11 permanently eliminate a hazard, so you
12 don't have to wear PPE or use
13 administrative controls to control that
14 hazard.

15 And that's really been
16 our focus in Vulcan, to identify those
17 contingents where we can make a
18 permanent change and completely
19 eliminate that hazard.

20 We've also partnered
21 with NIOSH in 2006 to implement an
22 ergonomic process. And an ergonomic
23 process is a process that's not
24 involving an office ergonomics because
25 obviously there are ergonomic issues

1 that employees face when they're out
2 there in the plant, doing repair and
3 maintenance jobs, operating equipment,
4 operating the plant equipment. It is a
5 process involved of reporting ergonomic
6 issues, excessive vibrations, excessive
7 force type hazards that can lead to
8 strains and sprains, and coming up with
9 fixes for those type of hazards. And
10 just some of the examples that we've
11 come up with. Obviously Vulcan doesn't
12 have a patent on any of these examples,
13 but it's just some good examples. I'm
14 sure that many other companies have
15 adopted some of these as well.

16 But if you just take a
17 look at the process of taking samples
18 off a conveyor belt. Anybody that
19 wants to make a quality product has to
20 have a QC program, which means you have
21 to get samples out of the pile or off
22 the conveyor belt. The process of just
23 loading up a five-gallon bucket with
24 stone and off a conveyor belt, you can
25 imagine the hazards associated with the

1 twisting and bending and lifting that's
2 involved there. And just a simple
3 engineering control of implementing an
4 automatic belt sampler has totally
5 eliminated that hazard. It's also
6 improved our efficiency in production
7 as well, because you don't have to lock
8 down and tag that conveyor to get a
9 sample done.

10 Remote control switches
11 have eliminated a lot of the hazards
12 that we have been faced with over the
13 years. On a hot summer day in the
14 southeast, you're constantly putting
15 water down on the roads, on piles, And
16 that water truck driver is constantly
17 going back to the fill point and
18 getting off his piece of equipment,
19 going and opening up the water valve,
20 filling the water back up and off he
21 goes. And just a simple and
22 inexpensive process of putting a remote
23 control that keeps him in the truck has
24 totally eliminated that process of
25 getting on and off the equipment which

1 you know has generated a lot of
2 injuries in the past for us.

3 Blind spot cameras, a
4 very simple, inexpensive process that
5 has eliminated a huge hazard for us.
6 We in the past have had a lot of
7 incidents of our loaders and haul
8 trucks backing up into customer trucks
9 and small vehicles. And the blind spot
10 camera has basically just eliminated
11 that. So our process is to get those
12 implemented on all our mobile
13 equipment.

14 Screen access and fall
15 prevention. When we purchased a screen
16 at a plant, it doesn't come with a safe
17 access. It doesn't come with fall
18 protection. And you have to get up on
19 the screens every day to check out the
20 wire. And so through the process of
21 this ergonomic process and engineering
22 controls, we've added safe access as
23 well as fall prevention, so you don't
24 have to wear a harness and look for a
25 proper tie-off point, vantage point.

1 You can just not even have to worry
2 about fall protection in this case. So
3 those are just some of the examples of
4 some very basic engineering controls
5 that we've perfected.

6 As far as employee
7 training, just real quickly, the
8 mandated training, as we all have to
9 follow under Part 46. The weekly
10 monthly tailgate meetings, all our
11 divisions use that as a tool. One
12 point I'd like to make is that we've
13 historically used the MSHA safety
14 meeting material, too. And I think
15 it'd be a great opportunity to get
16 those updated as well. And I'd be
17 willing to help out on that process,
18 too, and be looking for some
19 volunteers.

20 But importantly, SHE
21 operation meetings where divisions get
22 their managers, plant managers and area
23 managers together periodically and
24 discuss safety and health issues.
25 That's a very important process.

1 Task training booklets.
2 We have task training booklets for a
3 majority of our jobs, especially mobile
4 equipment operators, our haul trucks,
5 loaders and dozers, very comprehensive
6 mobile equipment training.

7 But we also have a very
8 extensive training library at the
9 Birmingham corporate office where
10 divisions can get online and request
11 any DVD or video on a number of safety
12 and health training topics. And we
13 also have an online folder where all
14 the divisions have stored all their
15 training materials that they've used
16 for many years on training and such
17 things.

18 Of course, the
19 supervisory training we get involved in
20 goes into the safety and health roles
21 and responsibilities of a supervisor.

22 Departmental evaluation.
23 We have a very comprehensive audit
24 process. We have three audit types,
25 which is the Company Level, Division

1 Level and the Facility Level. And that
2 audit process establishes the cycle and
3 the minimum standards. Then you'd be
4 following with responsibilities and the
5 management system elements that we
6 audit in a unit.

7 Another important part
8 of a management system is doing
9 benchmarks. I think it's important for
10 any company to reach out to other
11 companies and just compare notes,
12 compare best practices and statistics
13 and just see how you compare and see if
14 there's anything you can learn to
15 improve your processes. With this
16 benchmark, we'll also be doing it again
17 in November with Fluor Corporation, 3M
18 and U.S. silica. And this is something
19 that I'm sure we'll continue to do as
20 well.

21 As far as our safety
22 performance you'll see that the red
23 line is our pledge, our goal. And for
24 August year to date, our goal is 1.6.
25 And this is MSHA reportable, OSHA

1 reportable injury rate. We're actually
2 at 1.3 at this time. So we're doing a
3 very good job of meeting and exceeding
4 our goal.

5 As far as MSHA
6 reportable injury rate, our goal was
7 1.4, and we're currently at 1.0 on our
8 MSHA reportable injury rate. As far as
9 our MSHA citation rate, how we compare
10 to the aggregate industry, here today
11 the aggregate industry is around three
12 citations per inspection, and we're at
13 one and a half citations per
14 inspection, which is actually up from
15 2008, but down from last year.

16 That's all I had to
17 present. In summary, I can say that I
18 think it's obvious that an effective
19 management system will lead to accident
20 reduction and to loss control. I think
21 that one size does not fit all. What
22 works good for Vulcan may not work for
23 another company. So I think it just
24 needs to be kept in mind that one size
25 doesn't fit all. But thank you for the

1 opportunity.

2 MR. BURNS:

3 Thank you. Anybody have
4 any questions for Truman?

5 MR. DISTASIO:

6 Just a couple. You said
7 your goal is a ten percent reduction in
8 a year. Do you think it's realistic to
9 be able to continue that goal into the
10 future? Eventually it's going to get
11 harder and harder.

12 MR. CHIDSEY:

13 It will, and we look at
14 that every year and evaluate that.

15 MR. DISTASIO:

16 And the other question
17 is you said that some people have
18 programs that look good on a shelf, but
19 not in practice. How would you go
20 about making a paper program into your
21 own program?

22 MR. CHIDSEY:

23 I think you have to get
24 Involved down at ground level with
25 Vulcan employees. You'll see the

1 processes and see if they truly have
2 adopted what they say they did. That's
3 the only way you really could know.

4 MR. BURNS:

5 Yes. I have a similar
6 question. How does Vulcan evaluate the
7 safety and health programs in companies
8 when they acquire them? What are some
9 of the things that you had to do,
10 depending upon the company that you
11 bought? I'm sure there's a procedure,
12 but your efforts were probably
13 different from one acquisition to the
14 other.

15 MR. CHIDSEY:

16 It depends upon
17 the size of the acquisition, but one of
18 the first tasks is obviously gathering
19 all the, you know, safety performance
20 information that you can get through
21 either, you know, intellect, science or
22 whatever records that they may have.
23 In some cases, they don't have much
24 records.

25 But I mean it's gone

1 from extreme of shutting down a plant
2 --- you know, one facility, shutting it
3 down for several weeks just to go in
4 there and make engineering controls to
5 get it up to at least MSHA standards.
6 And you know, it takes longer to get it
7 up to some of our standards.

8 MR. BURNS:

9 Are you finding that you
10 have to do additional training or
11 anything like that, safety training?

12 MR. CHIDSEY:

13 We just go ahead and
14 just treat them ---. We start off at
15 the very beginning and just basically
16 treat them as they have not received
17 any type of training before and just
18 start them off as a new employee.
19 That's been my experience on all the
20 acquisitions I've been involved in.

21 MR. BURNS:

22 Anybody from the
23 audience have any questions? Thank
24 you, Truman.

25 MR. CHIDSEY:

1 Thank you, Kevin.

2 MR. BAILEY:

3 My name is Kelly Bailey,
4 K-E-L-L-Y, B-A-I-L-E-Y. I'm the
5 Corporate Director of Industrial
6 Hygiene and Health Services for Vulcan
7 Materials Company. And what I want to
8 share today is the occupational health
9 side of safety and health. And the
10 program that Vulcan has in place is one
11 that evolved over a 30-year period.
12 And so for someone to start today with
13 what we look like is going to be a
14 rather arduous task, I would think.

15 But what I want to try
16 to do is take folks through some of the
17 key elements of a successful
18 occupational health management system,
19 if you will. If you're starting one,
20 what do you do? How do you do that?
21 And of course, it's absolutely
22 essential that you have management
23 commitment. You're not going to get
24 anywhere at all without backing by the
25 senior management and from them all the

1 way down, so ---.

2 Beyond that, I think
3 Truman has addressed all of those
4 committees and commitments from Boards
5 and the SHE Management Committee who
6 all pertain to occupational health as
7 well.

8 And so I want to talk a
9 little bit about how you go about
10 starting to look at what you need for a
11 management system in occupational
12 health. And I'm going to talk about
13 specifically the aggregate industry.
14 And two of the major components of that
15 are, of course, exposure monitoring,
16 industrial hygiene monitoring and
17 medical surveillance. There are many
18 other elements in an occupational
19 health program that I'm not going to
20 get into in any kind of depth, such as
21 product warning, the ergonomic issues,
22 smoking cessation and other things that
23 impact health.

24 But when we look at the
25 key elements of an occupational health

1 program, like I said, beyond management
2 commitment, the two critical ones are
3 exposure monitoring and medical
4 screening. And then, of course, the
5 controls of what your data shows. If
6 you have overexposure circumstances,
7 you need to install controls and make
8 sure they are effective.

9 Data analysis is crucial
10 to knowing where you are and knowing
11 your trends. And are you getting
12 better or not getting better? And so a
13 system that allows data to be compiled
14 and examined and understood and
15 interpreted is essential, particularly
16 in a company the size of Vulcan and
17 with all the data that's coming in.

18 And then health hazard
19 training, which is always a challenge.
20 In safety training, it's a little bit
21 more direct. There's a visible injury.

22 And in occupational
23 health, most of the things we deal with
24 are chronic hazards. And getting folks
25 to respect those hazards takes another

1 extra step sometimes in training. And
2 we work with our divisions on providing
3 them the tools to help them with that.

4 Now, I want to look at
5 management systems. These are four
6 management systems, and they vary in
7 quality, and I'm sure you folks have
8 seen all of them in action. The head
9 in the sand one, well, that's one that
10 I don't want to know what's going on.
11 And it works for a while, but there's
12 another part of the management still
13 exposed. And so eventually that
14 catches up with you.

15 And then there's the
16 firefighters. And the firefighters
17 are, you know, we're going to deal with
18 it when it's a problem. And that can
19 overwhelm you if you keep on catching
20 on fire actually.

21 And then the folks that
22 are going to comply with law and do
23 what they're supposed to do, but that's
24 it. Everything else is not going to be
25 done. And you know, in my experience,

1 especially with an occupational health
2 program, but I think also safety, is
3 that won't get you there. It may cut
4 down on your citations, but you're not
5 going to have a good program in place
6 if your whole goal is compliance with
7 regulations as the end game.

8 And then, of course, the
9 progressive management style, which I
10 hope that Vulcan certainly meets. We
11 sure strive to. And others also have
12 good performance in their statistics in
13 safety and health.

14 When we look at the
15 aggregate industry what things can hurt
16 you from a health standpoint, these
17 come to the top of the list. Silica
18 dust, of course. Naturally occurring
19 asbestos, if you're in a particular
20 rock type, that can be present. It's
21 rare. Thank goodness. And
22 occupational noise, which is the most
23 prevalent occupational health hazard in
24 mining. Welding fumes, particularly in
25 confined spaces. Diesel exhaust in the

1 underground mines and ergonomic issues,
2 which Truman talked about earlier.

3 So how do you figure out
4 a management system? What do you do to
5 develop a management system that would
6 address these things? And so it really
7 comes down to before we even leave the
8 office is ask yourself some questions
9 like what do we have? Do we have
10 underground mining? Well, then diesel
11 is important. Do we have some
12 metamorphic rock? Then maybe naturally
13 occurring asbestos is occurring.

14 And who's involved?
15 Who's doing what? Who's engaged with
16 these processes that have these
17 substances? When do these things occur
18 and how often do they occur? Where do
19 they occur? In confined spaces, non-
20 confined spaces? How is that
21 happening? Are you shoveling stuff?
22 Are you spraying stuff? So how does
23 that happen?

24 And then how much
25 exposure is there? What frequency do

1 you have of dealing with this? And so
2 some of those questions basically come
3 down to those answers. It's really a
4 qualitative risk assessment, and that's
5 what you do first. Figure out what you
6 got to do as far as the program goes.

7 So what are my sources
8 of exposure? Well, the various things
9 we listed there. And where are my
10 highest potential exposures? The plant
11 manager, they're there every day. They
12 pretty much know. The employees
13 certainly know.

14 Where is your highest
15 source of exposure? Where is your
16 highest noise exposure? So getting
17 those questions answered can --- is
18 part of that risk assessment.

19 How many of your
20 operations have these issues? Which
21 jobs are in the high exposure area and
22 how many people are in the jobs, and
23 how are they being exposed or
24 potentially exposed at this point?
25 What are they doing to increase their

1 risk? Are they dry sweeping the
2 buildings. Are they not using
3 respirators or hearing protection?
4 There's things that are pretty easy to
5 find out that pertain to this risk.

6 What controls are in
7 place? Just qualitatively how
8 effective are they? Is it very loud
9 there? Is it dusty there? Are there
10 fumes? Are there no engineering
11 controls for catching welding fumes?
12 Those things can be pretty easily
13 looked at to get a gauge on how
14 effective they may be, and consequently
15 what risk they might propose.

16 MSHA has data. OSHA has
17 data. OSHA less so, but that's
18 something that certainly needs to be
19 looked at. Was it indicated? You
20 know, most of the health hazards in the
21 aggregate industry deal with chronic
22 health hazards of how long have people
23 been exposed to these things? It's
24 important to have a feel for that and
25 that certainly pertains to risk.

1 How many people? Where
2 are they? What jobs? Did you have
3 claims for occupational illness?
4 That's important. And another very
5 important point is how old were those
6 people, because beginning claims for a
7 chronic illness that have early age
8 people and is not due to previous
9 exposure, that's a concern.

10 Who do you hire, and
11 what's their past exposure history?
12 Not to exclude people, but it is a
13 measure of risk and where these folks
14 have had exposure, because this
15 exposure is typically cumulative over a
16 lifetime.

17 Smoking, of course, is
18 certainly a lung hazard. And it's not
19 only important to know if you smoke or
20 not, but how much you smoke, because it
21 affects the ability to defend your
22 lungs. And silica, welding fumes or
23 anything else that gets breathed down
24 there Smoking is not helping.

25 So once you've answered

1 these questions, and perhaps visited
2 the sites, you really ought to know at
3 that point, do I have a real risk for
4 an occupational illness in my group and
5 do I have an idea of where that risk
6 may be located, and how many people
7 should be incorporated in a program?
8 How many people are going to need to be
9 sampled?

10 And get an idea of
11 the exposure control effectiveness.
12 That information gives you enough
13 direction to design an exposure
14 monitoring program to address these
15 risks. And with that, you can
16 determine what the costs are.

17 When you go out and do
18 sampling and collect samples in
19 industrial hygiene, your mission is
20 to ---. There are several strategies
21 that we employ at Vulcan. One is a
22 targeted sampling program. It's
23 basically go find where there's
24 problems. Is it an acquisition? We
25 require that they be sampled within

1 three months of being acquired. The
2 sooner the better, because we want to
3 know what the people were exposed to
4 prior to Vulcan fixing the place if we
5 can, if it's safe to operate. And it's
6 also to answer specific exposure
7 questions, maybe employee complaints,
8 any kind of question you target in
9 sampling.

10 When we have an
11 overexposure circumstance or a possible
12 overexposure circumstance, then we
13 require that circumstance be tracked
14 and re-sampled once controls are
15 installed to measure effectiveness.

16 And once you've pretty
17 much solved your overexposure issues or
18 possible overexposure issues, it's very
19 important to look at the entire
20 workforce. And this is primarily for
21 epidemiological purposes. But for
22 Vulcan, when we do medical testing- we
23 talked about this - we test everybody
24 at an operation. And it's important to
25 know the low and medium and the high-

1 exposed characterization of those
2 exposures, so that you can look at the
3 medical data with that --- with those
4 response relationships.

5 To do exposure
6 monitoring, you need to have qualified
7 people. The National Stone, Sand &
8 Gravel Association with MSHA has a
9 joint venture, I guess, or agreement to
10 help people learn how to sample for
11 dust and noise primarily. That same
12 kind of training can certainly help
13 with welding fume sampling.

14 So you've really got to
15 have people that know what they're
16 doing when they collect samples. So
17 Vulcan has its own qualification course
18 that takes a week, and people have got
19 to pass.

20 And then you must be
21 committed to solving problems. It's
22 not just a question of collecting data
23 and that's it. You need to, as I said,
24 find the problems and solve them.

25 Now, here's a picture of

1 one of our competitors' sites. They
2 begin with a sampling, and he wants to
3 shoot for the highest potential. In
4 our experience over time and in a
5 typical aggregate mine, these are the
6 types of jobs that really need to be
7 looked at in your exploratory
8 monitoring program. Helpers, laborers,
9 drillers, QC technicians. Let me know
10 when I'm going to too fast. Plant
11 maintenance, mobile equipment without
12 air-conditioned cabs, plant operators
13 without air-conditioned booths, any
14 confined space work is something that
15 certainly needs to be looked at.
16 Sandblasters, bagging and binsetters.

17 When you do target
18 sampling, I can say the objective is to
19 find problems, not have good numbers.
20 Or if you want to just kid yourself,
21 don't turn the pump on, and you'll have
22 good numbers. So go out and collect
23 samples.

24 Once you find those
25 problems, they must be tracked and

1 fixed. And decide before you start
2 what you're fixing. We have our
3 internal standards in Vulcan that we
4 have to meet, and then we continue on
5 to the engineering control path where
6 it's feasible, to the administrative
7 control where it's allowable, and
8 finally personal protective equipment
9 where --- that's our last resort.

10 But the local
11 management really is where the rubber
12 meets the road. They have the wrench
13 to fix the problem and the resources
14 too. And you know, the exposure
15 monitoring team is basically to find
16 the sampling of the exposure
17 circumstances.

18 Within Vulcan for dust,
19 we have an internal limit of below 80
20 percent of the shift-adjusted limit.
21 We have what we call a case closing
22 form that tracks a circumstance that's
23 over that. And once that's solved,
24 it's described what was done to solve
25 the problem. The re-monitoring of it

1 involves administrative controls or
2 personal protective equipment. And the
3 employees and their supervisors and the
4 safety and health people all have to
5 sign off on this form that tells them
6 what they're going to be doing. And
7 that has to be approved by the
8 corporate industrial hygiene office.

9 And with respect to
10 noise, those are the two highest number
11 of samples we collected. Sound-level
12 meters need to be below 85 with high
13 idle equipment. We find that that's a
14 safe level, a real quick measurement
15 unless you have a radio tuned real high
16 to Dolly Parton or something. It's way
17 above 85 even though you have a nice
18 cab.

19 Noise dosimetry results
20 below 76 percent of the dose, which is
21 the equivalent to 88 decibels on an
22 eight-hour day. And basically the same
23 type of process with respect to case
24 closing.

25 So how much does this

1 cost, you know, to do this kind of
2 thing? I mean if you want to go out
3 and get equipment for monitoring five
4 employees, and this is for dust and
5 noise and cyclones and calibrators and
6 so forth, it's about \$13,000 to outfit
7 someone with that kind of equipment.

8 And it takes about three
9 days of training on sampling. That's
10 primarily the NSSGA of the program. At
11 Vulcan it is a whole week.

12 Laboratory analysis
13 depends on what your volume is, but
14 it's around \$65 each for a dust sample.
15 And of course, your sampling days are
16 typically long. And the cost finally
17 of installing controls? It may be
18 costly or it may not be.

19 Moving on to the medical
20 testing side of this which is very
21 important. We do tests for lung
22 exposures for silica, looking for
23 silica. We're also looking for lung
24 function tests and, of course, hearing
25 tests, which everybody has to do.

1 The objectives for the
2 medical testing are basically to
3 establish that baseline. All new
4 employees coming in to Vulcan in the
5 productions side have to have x-rays,
6 pulmonary function and hearing tests
7 done, among other tests that are done.
8 But that's the occupational health
9 baseline tests that are done. And
10 there are reasons that they're done at
11 the early stage. And corrective
12 measures can be implemented to give the
13 most benefit.

14 We also see a lot of
15 non-occupational health problems. Many
16 of the workers that work at our site do
17 not go to doctors. It's not the
18 typical crowd that goes to medical
19 clients unless they absolutely have to.
20 So having this type of monitoring and
21 medical service to the employee is
22 viewed as a benefit for the employees.

23 And of course, it's the
24 ultimate auditor of whether you control
25 your exposures. And you certainly

1 don't want to use that as a control
2 plan. And again, data for
3 epidemiological studies.

4 The type of testing.
5 Chest x-rays, 14 by 17 so they can be
6 read by the International Labour
7 Organization guidelines, a B reading.
8 That's looking particularly for dust
9 inhalants.

10 Pulmonary function
11 testing is basically how well your
12 lungs work and we can determine ---.
13 It's not very specific with respect to
14 diagnosis, but it certainly helps with
15 looking at the overall health of the
16 individual.

17 Audiometric testing
18 meeting the OSHA criteria and other
19 tests, blood pressure and so forth we
20 use. So our basic medical
21 screening basically covers the risks
22 that you've identified in your
23 qualitative risk assessment.

24 Periodic medical
25 screening. We use Industrial Health

1 Council based out of Birmingham for
2 medical monitoring. The benefits of
3 that to the employees, if you don't get
4 trained about the hazards of dust,
5 noise and so forth, the question is
6 well, have I been affected? And so the
7 medical program certainly answers that
8 question to some degree. It certainly
9 allows early intervention of any
10 potential serious problems. And I'm
11 happy to say that we save people's
12 lives with aneurysms and lung cancer
13 and pneumonia and lots of things that
14 we've seen over the 30 years of doing
15 this.

16 And for the company,
17 there's a benefit that we know what is
18 the health status of our workforce as
19 it relates to the potential exposures
20 there. That's very critical. Is your
21 workforce health improving? It allows
22 you to see health trends and provides
23 company data for defenses, defenses of
24 the company program.

25 And the company's

1 benefits is only realized if you have a
2 high participation rate. And at Vulcan
3 Materials, we're over 95 percent
4 participation. It's a voluntary
5 program, and people view it as a
6 benefit. And it's something that's
7 being done for them as well as for the
8 company.

9 Keys to the high
10 participation rate for occupational
11 medical testing? Don't charge them
12 anything. No one wants to pay
13 anything. And make it voluntary, but
14 promote it aggressively as a benefit.
15 You don't want to be dragging someone
16 kicking and screaming into an x-ray.
17 You're going to try to get a good test.
18 And the same thing with a hearing test
19 and other things. So it's important
20 that it be promoted as a program, as a
21 benefit, and that's what it is.

22 The test people have to
23 be courteous and have to know what
24 they're doing and provide that
25 qualified testing. And I would advise

1 everybody to stay away from needles and
2 urine samples. That's typically not --
3 -. You don't get a lot of volunteers
4 when you start off that way. They
5 might not want to help you. So
6 certainly as the program matures, then
7 that might be ---. We've had flu shots
8 given on some of these tests and so
9 forth for anybody who wants them.

10 Also, do not bring your
11 occupational health program together
12 with a drug screening program. That's
13 a real no-no. Even though the people
14 don't take drugs are ---. We don't
15 have a lot of high participation of
16 drug takers, but it's just something
17 that is not perceived as a benefit
18 there. And some people do, and some
19 people don't.

20 Make it easy to
21 participate. The language barriers
22 need to be eliminated. And for a
23 company like Vulcan that's all over the
24 country, a multiple testing service is
25 really a high value for us. If it's a

1 smaller company and you're regionally
2 located, then a clinic that can do the
3 tests is certainly one that would.

4 But the benefits of a
5 mobile testing van are many in that the
6 test can be done in a consistent
7 manner. The enemy of quality is
8 variability, and so if you can
9 eliminate that variability it's
10 critical. In trying to assess what the
11 company mixture looks like, it's
12 important that everybody does it
13 similarly and have the same
14 standards. So high quality testing at
15 all sites.

16 All the records are
17 maintained at a single site with your
18 mobile testing clinic. Uniform
19 reporting of results, it's going to the
20 operation, so you can do it on
21 different shifts and do it on different
22 schedules.

23 And also the ability to
24 expand the program if you want to
25 incorporate a wellness program, it's

1 already going out to the sites. The
2 employees are familiar with the
3 process. And also, I guess most
4 important these days is cost. You can
5 send someone to the doctor's office,
6 and I'm sure all of us have experienced
7 sitting there for an hour waiting to be
8 called. And you don't have that with
9 this kind of testing service.

10 Medical costs by tests.
11 I mean that varies, of course, by maybe
12 geography, how far your mobile testing
13 folks are or whether you do it by
14 mobile clinic or not.

15 But here's some typical
16 costs. \$200 to \$300 to do a baseline
17 that incorporates the x-ray, the
18 pulmonary function test, the hearing
19 test and so forth. And respiratory
20 screening tests, as I mentioned,
21 they're there. When we do one
22 periodically in mobile testing, it's
23 running \$70 to \$100 per employee.

24 If we find an employee
25 that potentially has a dust-related

1 abnormality, and it's hard to determine
2 that just from the film, then we will
3 send them to a pulmonary specialist to
4 determine the etiology of that
5 abnormality. And fortunately, we don't
6 see that very often any more.

7 Audiometric testing runs
8 \$20 to \$30 depending on the provider.
9 And of course, you always have the cost
10 of initial claims that may come from
11 your medical testing.

12 And if you've never
13 tested the employees and you really
14 don't have a good feel for your
15 exposures, you could have folks that
16 have legitimate claims, and resolving
17 that as the program is in place and
18 working, that should be a decreasing
19 issue.

20 Results of all these
21 efforts. What do you get from all
22 this? A management system of
23 occupational health has many, many
24 benefits. And some of them are direct
25 costs, some of them are indirect costs,

1 but certainly high on the list is
2 prevention of occupational-related
3 disease. If you find disease, you can
4 slow it by knowing about it and
5 preventing exposures. The employees
6 become much more aware of the hazards,
7 of health hazards.

8 You have a timely
9 assessment of exposures, particularly
10 if you have an in-house ability to
11 monitor. You have defense against
12 unwarranted claims and certainly
13 elimination of new claims. Improved
14 employee community relations. In
15 quarries, we're by necessity next to
16 neighborhoods. And if you control your
17 exposures inside your fence, then you
18 certainly improve them outside your
19 fence.

20 Comprehensive
21 occupational health database
22 established. Remember we're dealing
23 with client hazards, so looking at
24 exposures and health effects over long
25 periods of time, it's very important in

1 having that database established.

2 Citation defense is also
3 an issue. If MSHA has a sample that
4 makes no sense, then at least you have
5 some data there to argue about.

6 In-house expertise
7 developed and enhanced respect of the
8 company, and I think also credibility
9 with regulators, particularly if you're
10 doing things that you're not required
11 to do by law, but are just the right
12 things to do.

13 More benefits.
14 Certainly, the impact of new
15 regulations can be determined.
16 Reduction in the number of smokers is
17 always helpful to the bottom line.
18 Early detection of non-occupational
19 diseases which is critical for the
20 employees as a benefit. It allows the
21 expansion of the program and
22 facilitates it in certainly improved
23 use of personal protective equipment.
24 And we find that the data of having a
25 program like that allows us to present

1 our position in zoning hearings and so
2 forth about opening new quarries.

3 All this, we look at
4 our occupational health program. Why
5 would you want to do this? And you
6 know, there are some industry
7 challenges that are there, first, with
8 silica, of course, which has been
9 designated as a lung carcinogen by a
10 number of groups. And certainly, you
11 know, people can view that, that it's a
12 carcinogen and that really needs to be
13 --- dust control is the answer to that.

14 We have a lot of
15 smokers. Our blue collar workers
16 typically smoke at about a 40 percent
17 rate versus the general population of
18 about 23. And you know, getting people
19 to stop smoking and the high degree of
20 smoking is important. Of course, when
21 you give up smoking, then you gain
22 weight, and so you got to work on that,
23 too.

24 Hearing loss, of course,
25 is important. The whole issue is

1 certainly an issue that the industry
2 faces that occupational health programs
3 certainly address.

4 Community relations. In
5 our sites, they're a 24-hour regulator,
6 but typically not too far away.

7 Internet access to data
8 is very available and getting more so,
9 so having your act together is
10 important. And ergonomics, of course,
11 is important.

12 Recommendation. These
13 are some of the things that Vulcan
14 does. We have a lot of sample analyses
15 that are done. We use RJ Lee Group
16 just down the road here in Monroeville.
17 And diesel particulates, we use
18 Clayton Labs. Our medical testing
19 provider is the Industrial Health
20 Council, which I might say is a
21 nonprofit medical organization. And if
22 you can say nonprofit and medical in
23 the same sentence that's saying
24 something.

25 And particulate

1 sampling equipment, this is the type of
2 equipment we use, the Gilar 5, which
3 we're looking at increasing through a
4 large volume pump, the SKC aluminum
5 cyclones and DryCal's --- that's part
6 of that \$13,000 equipment there --- the
7 Quest Edge Dosimeters and our employees
8 love those things. And we use a Radio
9 Shack sound-level meter at every site
10 at Vulcan. The plants conduct their own
11 surveys annually to make sure that
12 they're tracking those circumstances
13 where we may have to have noise
14 controls.

15 Recommendations with
16 respect to some of the other things
17 that we do in our occupational health
18 program. Smoking cessation. We've
19 been very successful with a 48 percent
20 quit rate with a company called Free
21 and Clear. It's a pharmaceutical and a
22 telephone consulting. It's been in
23 place now for about four years. It's
24 been very successful.

25 Office ergonomics. This

1 is basically throughout the company.
2 It's an Internet training program.
3 It's based in England, and they
4 basically e-mail the desktop user or
5 the laptop user and teach them the
6 hazards of poor office ergonomics and
7 how to assess their own environment and
8 actually how to solve their own
9 problems to the extent that they can.
10 So it's been a very successful program
11 at a very reasonable cost.

12 Material safety data
13 sheet management, we use 3E Company. We
14 have a lot of material safety data
15 sheets that we have to keep track of.

16 So does this thing work?
17 Well, this is Vulcan's data going back
18 to the '80s. You can see it's been
19 going in the right direction. We have
20 a lot of acquisitions during through
21 the course of this, particularly in '99
22 and 2000. And we're running about
23 three percent over standard with
24 Vulcan's data.

25 This is Vulcan's hearing

1 data. This, in fact, is a very
2 interesting graph. The red line
3 represents the over standard data from
4 Vulcan on personal dosimetry. We're
5 running about two percent this year so
6 far. And the blue line is for anybody
7 who's overexposed. Are they wearing
8 proper personal protective equipment-
9 earplugs, ear protection? And, of
10 course, if you have anything on red,
11 you should have 100 percent on blue.
12 And so far this year it's been a very
13 successful result of this management
14 system.

15 The green line you can't
16 see too well, but that's the actual
17 hearing impairment, which was about 36
18 percent back in 1986. We're running
19 about 18 percent right now. Of course,
20 hearing loss is permanent. It doesn't
21 decrease that rapidly. In a blue
22 collar population in the United States,
23 for people who are exposed to less than
24 85 decibels, they're going to have 15
25 percent hearing impairment just because

1 they do motorcycles or now, usually
2 it's NASCAR, loud music, chainsaw or
3 have loud wives or spouses. And all of
4 those things will cause hearing loss.
5 And so you know, 18 is not that far
6 from 15, so we're moving in the right
7 direction here.

8 This is the MSHA dust
9 standard data. Over time, Vulcan is
10 blue and the yellow is the industry.
11 Back in the early days, you had a lot
12 more rock silica in the industry. But
13 this year we've had --- in 2009, we had
14 one standard, one sample that was over,
15 so it was less than one percent.

16 The other thing that's
17 good about the industrial hygiene
18 program is being able to determine how
19 you are relative to new standards that
20 may come about. This particular graph
21 shows what the industry and what
22 Vulcan's position is or status is
23 relative to various silica standards
24 that may be considered. And you can
25 see that it's cut in half. The

1 industry level loses about 11 percent
2 based on 2009 data, and Vulcan is at 3.

3 Noise exposure data.

4 Same kind of graph of MSHA data. You
5 have the industry. You have Vulcan.
6 And we're doing quite well. We had a
7 little burp there in 2007, but we're
8 back on track.

9 And this is another
10 interesting. This is really pulmonary
11 function data. One of the issues that
12 arose was we had a very large person
13 fall off a ladder and they hurt
14 themselves. And this large person who
15 was about 350 pounds, was a haul truck
16 driver.

17 And I started thinking,
18 well, I wonder if there's any
19 relationship between the injury and
20 BMI. BMI is something that you get
21 from weight and height. You also have
22 to get weight and height when you do a
23 pulmonary function test. In looking at
24 the data for injury by BMI group, you
25 can see that there is a rather highly

1 correlated relationship between the
2 cost of an injury and how big that
3 person is. Once you get past 42 there,
4 there's not that many people that are
5 that big. I mean that's pretty much
6 Jabba the Hutt. But you can see that
7 there is a relationship with respect to
8 BMI.

9 And when we looked at
10 this with respect to medical claims and
11 pharmaceutical intake, you can see that
12 the relationship is similar. And this
13 is bottom line cost. And this points
14 to a need for a wellness program. And
15 there's going to be large benefits that
16 you can realize from that, from a cost
17 standpoint and a health standpoint. So
18 this data is going to be used to
19 basically expand the wellness program
20 and to incorporate things like obesity.
21 But we're not going to tell them that
22 they can't eat potato chips.

23 Well, that went very
24 fast and I'll be glad to answer any
25 questions.

1 MR. BURNS:

2 Does anybody have any
3 questions for Kelly?

4 MR. DISTASIO:

5 I have one. You talked
6 about using your data as a defense
7 against claims and as a defense against
8 citations. And we've had other people
9 say the exact opposite. One of the
10 reasons people don't develop such
11 programs is they're afraid that their
12 own data is going to be used against
13 them particularly by MSHA. Can you
14 speak to that?

15 MR. BAILEY:

16 Certainly, I can. You
17 know, that's a program ---. That kind
18 of goes back to the head in the sand.
19 Don't tell me. I don't want to know.
20 And you know, you have to go out and
21 find your problems, but you have to fix
22 them. And if you're not going to fix
23 them, then the data can be used against
24 you.

25 And if you've got a

1 program that's going to go out and find
2 those problems and solve those problems
3 ---. Which if you're not going to do
4 that, then why collect samples in the
5 first place. You know. if that's not
6 the end game, then, you know, don't
7 turn the pump on.

8 And so, you know, it is
9 a --- there is a lag time between
10 finding a problem and fixing a problem,
11 but that shouldn't be the reason that
12 you don't do it.

13 And I think with respect
14 to the defense of citations is that,
15 you know, you have ---. And
16 fortunately, Vulcan's been doing this
17 for 30 years. And you have, you know,
18 10,000 limestone quarry truck driver
19 samples that you just don't see. I
20 mean, you can have a serious chat, and
21 usually that comes out to some
22 reasonable resolution.

23 MR. BURNS:

24 Does anybody else have
25 any questions? You've heard a lot

1 about cost. Mario's questions, a lot
2 of them usually ask how much does that
3 cost, but I think you probably
4 overwhelmed him with the numbers.
5 Anybody from the audience have any
6 questions?

7 I guess I only have one
8 question for you, Kelly. You mentioned
9 that it's a challenge, the employee
10 training is a challenge to make people
11 aware of these illnesses that are going
12 to be 20 years down the road due to
13 exposure. What are some of the things
14 over the years that you've learned is a
15 better way to make that impression on a
16 young person, that this stuff is going
17 to catch up to you?

18 MR. BAILEY:

19 Well, there are some
20 tools out there. I think the NIOSH
21 hearing loss simulator is an important
22 thing. I think that, you know, just
23 like one of your earlier presenters,
24 hands-on type of --- how to put in an
25 earplug. They have new devices coming

1 out that actually measure how well your
2 earplug works, and it's a quantitative
3 measure of the attenuation of an
4 earplug, and it takes just a few
5 minutes to do. And you have the person
6 put their plug in and say come over
7 here and put the earmuffs on them. And
8 you can measure just how much
9 attenuation you're getting. It's very
10 impressive to people.

11 There's a new device
12 that's available that we're
13 experimenting with. It's called the 3M
14 noise badge. It's very simple. It
15 hooks onto your lapel there or collar,
16 and it flicks green when it's under 85
17 and flicks red when it's over 85. What
18 you do there is you empower that
19 employee to know when he should be
20 wearing his ear protection.

21 Testimonials of folks
22 who are willing to do those
23 testimonials about why I should
24 participate in a chest x-ray program.
25 People's lives have been saved, and

1 they're willing to share that story
2 with folks. And that always hits home
3 with the things that you do.

4 MR. BURNS:

5 Okay. Thank you. Any
6 questions from the audience? Yes. In
7 the back. Could you identify yourself,
8 please?

9 MS. SCOTT:

10 My name is Carmen Scott.
11 Safety Manager for Suwannee American
12 Cement in Branford, Florida. The
13 question is on the smoking cessation
14 program. Can you expound more on that,
15 because we're having a hard time
16 getting employees involved with that
17 particular program? It's working for
18 you. Can you tell us how you're doing
19 that?

20 MR. BAILEY:

21 Are you using Free and
22 Clear?

23 MS. SCOTT:

24 We have a wellness
25 clinic in Branford that's assisting us

1 with the program, but it's not ---. We
2 can't get it off the ground.

3 MR. BAILEY:

4 Well, one of the things
5 you must do on that is you must treat
6 the entire family. If you do it just
7 by the employee, it's not going to
8 work, because they go home. Their kids
9 are smoking, their spouse is smoking,
10 and they're not going to stop. So you
11 treat the whole family.

12 And, you know, it is a
13 --- we have a incentive with respect to
14 a decrease in their insurance.
15 Treating them, I guess, with \$25 a
16 month and \$50 if they're spouses or
17 children.

18 The folks at Free and
19 Clear, they are very professional.
20 There is a pharmaceutical component to
21 this, and it may involve patches. It
22 may involve gum. It may involve
23 Chantix, which has been rather
24 successful in people being able to drop
25 that habit.

1 Every year we have a
2 benefit sign-up plan. We do all kinds
3 of things. You sign up what you can do
4 next year. And we always come up with
5 the smoking cessation program in
6 looking at their insurance cost. And
7 people are ready to do their New Year's
8 resolution of no tobacco.

9 MS. SCOTT:

10 Does this apply to the
11 smokeless tobacco as well?

12 MR. BAILEY:

13 Yes, it does.

14 MS. SCOTT:

15 Okay.

16 MR. BAILEY:

17 And it's been very
18 successful, a very high rate for
19 smoking cessation. Typically, if they
20 do the program, it's a 32 percent quit
21 rate. And the quit rate is measured
22 after a year of not smoking.

23 MS. SCOTT:

24 Okay.

25 MR. BAILEY:

1 So 48 percent is very
2 good. Of course you have the
3 die-hard guys and ---

4 MS. SCOTT:

5 Right.

6 MR. BAILEY:

7 --- you're never going
8 to get those, so ---.

9 MS. SCOTT:

10 Thank you.

11 MR. BURNS:

12 Any other questions?

13 MR. BAILEY:

14 Thanks a lot for the
15 time.

16 MR. BURNS:

17 Thank you very much,
18 gentlemen. At this point, we've got
19 two or three more speakers left. I
20 think we're going to go through lunch
21 and try to finish up. But in order to
22 do that, we're going to give the court
23 reporter another 10-minute break. So
24 right now it's 10 after 12:00, so let's
25 get back here at 20 after 12:00. Thank

1 you very much.

2 SHORT BREAK TAKEN

3 MR. BURNS:

4 Okay. Our next
5 presenter is Lou Barletta, who is Vice
6 President of Safety for CONSOL Energy.
7 And I appreciate your making a
8 presentation.

9 MR. BARLETTA:

10 Thank you, Kevin. Good
11 afternoon to the panel. And again, my
12 name is Lou Barletta, Vice President of
13 Safety at CONSOL Energy. I want to
14 thank MSHA and the panel for the
15 opportunity to present what we do at
16 CONSOL Energy as it relates to our
17 safety culture, safety program and what
18 our future needs are.

19 Safety, we take very
20 serious. And three years ago, we did
21 an independent survey across the
22 company, and we found out that, number
23 one, we weren't as good as we thought
24 we were. And number two, that our
25 employees had a different impression on

1 how we approached safety and how we
2 approached compliance. So that started
3 with executive management meetings and
4 putting a bunch of initiatives
5 together, really with what we call our
6 absolute zero safety policy. At CONSOL
7 Energy we have
8 approximately 8,500 employees. 6,500
9 employees are on the coal side of the
10 business and the balance of 2,000
11 employees are on the gas side,
12 transportation side and industrial
13 supply side. Our absolute zero safety
14 policy applies to all CONSOL Energy
15 employees.

16 First of all, safety is
17 our number one value. Safety has no
18 rank. We instill in our people that if
19 they have a safety concern, they must
20 communicate it. Safety is definitely
21 supported by mine management, from J.
22 Brett Harvey, our CEO. And I would say
23 today that if you would interview
24 anyone from our company, I would say
25 that they've seen a change in our

1 program, that safety is just not
2 another program. Our culture is here
3 to stay.

4 Our executive management
5 is very instrumentally involved with
6 safety to the point that we have a
7 process that involves our executives,
8 from myself, as Vice President of
9 Safety, to our CFO to our Counsel to
10 our CEO to our employees. Find out how
11 the employee is doing to what we learn
12 about the accidents, where we need to
13 improve. And we share that with
14 management teams. We also talk on a
15 positive note of what employees and
16 myself can do to keep us accident-free.

17 Employees are empowered.
18 This used to be, and still is under our
19 labor grant with the United Mine
20 Workers, a negotiated provision of the
21 contract. But no longer at CONSOL
22 Energy do you need a contract to be
23 empowered. Our CEO expects all
24 employees --- we give them the right to
25 be empowered. One of the policies we

1 have is the responsibility for that
2 right, to report when you use the
3 equipment and something's not right or
4 if it doesn't look right. And there's
5 times through human behavior, okay,
6 when people don't basically exercise
7 that right. So responsibility is an
8 area that we work on, continue to work
9 on. And we really need to depend on
10 our people to make the right decisions.

11 Accidents are an
12 exception to the norm. You don't get
13 Absolute Zero from that type of
14 behavior. I'm going to continue to
15 work on that.

16 And the bottom line is
17 about providing a workplace that all
18 employees go home safely, and we've
19 heard that time and again. And I
20 believe in our industry it's focused.

21 We have many safety
22 management programs. Some are
23 proactive, some are reactive. Some
24 involve employee participation.

25 About two years ago we

1 realized that we were overwhelmed with
2 the enforcement of the agency. We had
3 feedback from our employees that safety
4 needed individual attention. And that
5 time, we put on the Absolute Zero
6 mentors. That's a safety professional
7 we have at all locations. And their
8 responsibility is to work with the
9 employees, observe the employees,
10 understand and communicate with
11 employees what the best practices are
12 and participate in accident
13 investigation. That has worked well
14 and continues to work well.

15 Since then, we've added
16 to the staff as a contractor,
17 industrial trainers. We use NovaCare.
18 And we'll bring in industrial trainers
19 basically to help with ergonomics, to
20 help with wellness, to help with body
21 positioning. You realize that body
22 positioning is a major area of concern
23 in safety not only at CONSOL, but I
24 think within the industry.

25 These employees work

1 hand in hand with their mentors
2 underground and out on the surface.
3 And we see that communications with our
4 employees, their own personal ones have
5 made the job easier.

6 In addition to that,
7 earlier this year we studied a couple
8 companies outside of CONSOL with peer
9 review. Basically all the locations
10 had a peer review or some form of it.
11 And a peer review works with the
12 mentors. It's employees that volunteer
13 to go out to the workforce,
14 independently of mine management, and
15 take the feedback from their
16 observations, and then we discuss that
17 at the steering committees. We discuss
18 that among our management groups, and
19 we learn from them.

20 Sometimes peer review
21 members believe a lot of the workers
22 are snitches, but we have to work
23 through that, because there is
24 definitely a value in peer review.

25 In addition to that, at

1 our represented mines, we have a very
2 active ACE. And they're engaged not
3 only in safety but in compliance. And
4 we appreciate the effort that they
5 provide at those locations. They do
6 Absolute Zero training. We realize the
7 mandated annual refresher does not get
8 us what we need, and it gets us what I
9 feel is the bare minimum. And what we
10 do is we make it more specific to the
11 mine foreman, the superintendent, the
12 safety personnel, HR personnel, to
13 discuss issues or problems at that
14 location. Discuss the best practices.
15 It's more of an interaction. What did
16 you see? What did you say? And we've
17 been doing that now for two years.
18 It's an additional eight hours, and
19 there's times that MSHA has come in.
20 Very frequently they have participated,
21 and we feel that absolute zero takes us
22 beyond the mandatory requirements.

23 Our SWI program is a
24 Safe Work Instruction program. It's a
25 basis for training. It starts off with

1 hazard recognition. Prepare to
2 present, follow up and monitor
3 throughout the year and throughout the
4 employee's career. We let our
5 employees participate in the safe work
6 instructions. Our employees teach us
7 what's right and wrong and the co-
8 workers are part of the training
9 process based on experience.

10 Our ACE management
11 program is basically Accident Cause
12 Elimination. It's no different than a
13 cause analysis. Typically, when an
14 accident occurs where an employee is
15 injured, in most cases, you gather the
16 data. And then basically when the
17 employee comes back is when we get the
18 people involved. And we have a team
19 set up at every location, and we look
20 at the core aspects of the accident
21 starting with how the employee started
22 the day all the way through what went
23 wrong. And then based on that, we get
24 the corrective action plans and
25 recommendations. That involves

1 employees, supervisors, mine management
2 and laborers involved throughout.

3 We started just recently
4 our risk analysis, risk elimination.
5 Basically it's broken down into three
6 parts, the routine jobs, non-routine
7 jobs and specialty jobs. We feel that
8 if we can get our employees focused on
9 the day to day in all three of those
10 categories, that they can see ahead,
11 that they may be able to prevent an
12 accident to them or to somebody else.

13 Stickers are put on
14 people's hard hats, put on equipment.
15 And it's a nine step process. You have
16 a Red Zone, and you identify --- you
17 observe all your surroundings, what can
18 happen. You have the Red Tools. Are
19 you trained? Is there any stored
20 energy? A lot the accidents we see in
21 the industry with stored energy, people
22 do not recognize. And this is where we
23 need consistency in doing that.

24 Body positioning ensure
25 that that's communicated when we're

1 working with workers. It's relatively
2 new, but we know in order to improve
3 and be our best, we need to move ahead,
4 because I think in the industry itself,
5 it's all included.

6 We have a unique
7 communication system at CONSOL, and
8 it's been in effect for a little over a
9 year. We call it CONSOL TV, and
10 basically it's a network throughout the
11 entire company, from the corporate
12 office to the coal mines to the prep
13 plants to the surface mine that plays
14 24/7. And we also have gas operations
15 on our boats on the river and available
16 to all people at CONSOL.

17 And the purpose of that
18 is to get the message out to all 8,500
19 employees. It's easy to say --- to
20 give safety talks. It's easy to
21 explain an accident. And you can put
22 it on e-mail or send it through the
23 mail. And what's unique about this is
24 everybody's seeing the same thing.

25 We've taken the Rules to

1 Live By on the surface and made a
2 video, presented it to the workforce.
3 We used it for compliance training. It
4 might show a situation underground. Do
5 you see what I see? And take a look at
6 what's wrong, and we show that. We
7 show best practices. We actually run
8 all ACE, all our Accident Cause
9 Eliminations, on the network. I do
10 videos. Our CEO does videos and other
11 people. And I offered that with MSHA.
12 This sends a consistent message
13 throughout the entire company if you so
14 choose to do so.

15 We also have employees
16 that will reenact their accidents and
17 talk about how the accident has
18 affected them. And the impact of that
19 is to see a co-worker, whether a
20 supervisor or non-supervisor who is
21 willing to take the time to make the
22 video. They come back to work and talk
23 about the accident and what they
24 believe went wrong. And we believe
25 that's very powerful.

1 We've taken some videos
2 of employees that have worked 30, 40
3 years. What do you do when you find
4 those people with a very good work
5 record? It's hard to describe their
6 success. They try to put it in words.
7 But I offer that for anybody who wants
8 to see our network. We find a lot of
9 value within that system right now.

10 There's a lot of safety
11 resources we have adopted. We have
12 SWIs, training records. We have
13 letters. We have policies. We have
14 best practices. We are instituting
15 putting computers underground that a
16 supervisor can access training records
17 of employees to make sure the employees
18 are trained on SWIs, that they can use
19 as a tool, because of the volume of
20 Safe Work Instructions out there.
21 We're in the process of doing that.

22 And one other thing on
23 the safety management program. When we
24 realized that we were overwhelmed the
25 last few years with enforcement we felt

1 we had to do our safety first. In coal
2 mines, we have nine safety
3 professionals in the coal mines, and
4 that went from five. We realized that
5 we needed to have 24/7 coverage. We're
6 in the process of building that.

7 And what do we do on
8 shifts when the agency is not around?
9 We do paperwork. Our goal is to start
10 doing audits and try to improve and be
11 proactive in regards to safety and
12 compliance. And we feel that with all
13 of the attention and exposure we have
14 with our coal mines and with the
15 regulations, that was necessary.

16 Absolute Zero. We have a
17 person, a safety tech, that goes around
18 and makes sure our lifelines are
19 proper. We have five safety inspectors
20 at the location and we realized the
21 importance now of having a full-time
22 respirable dust and noise person on in
23 each coal mine.

24 If you look at our
25 results from 2007 to 2010, for the

1 first nine months, we improved
2 approximately 25 percent. That's an
3 incident rate of about 3.00 to an
4 average of 2.22. Total company
5 improvement of 30 percent, and that's
6 about 2.6. Total incident rate around
7 1.8.

8 I'd probably say since
9 we've adapted and got more employee
10 involvement that when we look at 8,500
11 employees, how many days can a company
12 of that size go without reportable
13 accidents? In 2008, we went seven
14 days, consecutive days. In 2009, nine
15 days. And earlier this year, we went
16 12 days. That may not sound big, but
17 I'm telling you 12 days with 8,500
18 employees focused and going home safely
19 without reportable injuries says a lot.

20 As you can see by the
21 numbers, we're not where we want to be.
22 We're not perfect, but we believe that
23 it's our responsibility to achieve a
24 perfect place when it comes to the
25 safety of our employees.

1 Lastly, I'm here to ask
2 the panel for help. I believe the
3 issue is help. I've tried for the last
4 few years. I'm starting to see it
5 across the district. But I can tell
6 you that there's an untapped resource
7 out there for safety, and that's MSHA.
8 And whether we want to realize it or
9 not that resource brings a lot of
10 experience and a lot of technical
11 ability.

12 And today, the
13 concentration, whether it's Congress
14 driven or not, when it comes to safety,
15 I think we all can share
16 responsibilities. And that is that
17 MSHA has to be more involved and I
18 challenge MSHA and I challenge this
19 panel that we look and say, hey, what
20 am I doing for safety?

21 Communication, I believe
22 is important in anything we do, but
23 there are people out there that would
24 say that we're here for compliance, not
25 for safety. I don't think that's the

1 intent of the law. And what I'm asking
2 you to do is --- you have the
3 expertise, you have the ability. We
4 need help and education for our people.
5 And there's times we feel we're on our
6 own, and it's just not safety-based
7 discussions, but taking compliance and
8 tying it to safety and providing a new
9 explanation to our employees. When it
10 comes to work habits, if MSHA, if it
11 sees something in the coal mine or work
12 habits, be proactive. See something,
13 say something.

14 Risk assessments, I
15 think as a team if we work with labor,
16 if we work with our workforce, I think
17 MSHA has to be part of the team and not
18 separate themselves when it comes to
19 that. Employee interaction, I believe
20 as an industry we have responsibilities
21 and obligations and the need for
22 improvement. I can tell you what
23 CONSOL Energy does, but I'm asking the
24 agency for some help in this area.
25 This concludes my presentation. And at

1 this time, I'll take any questions.

2 MR. BURNS:

3 Thank you, Lou. Anybody
4 have any questions?

5 MR. DISTASIO:

6 Just a few. Is this
7 case analysis for the same thing you've
8 done in the last two years? It sounds
9 like you've gotten a lot of
10 improvement. To get that improvement,
11 you've put in an awful lot of time for
12 training and all that and so forth. So
13 have you seen any improvement in the
14 bottom line, or has it not been
15 developed yet?

16 MR. BARLETTA:

17 That's not developed in
18 regards to the bottom line. I have not
19 looked under ---. That's something
20 that as we look at medical and lost
21 time, accident ratio, we can see some
22 improvement on that level, reduction of
23 lost time. But I can't quantify them.
24 I don't have any real answer for you
25 on that.

1 MR. DISTASIO:

2 The reason I was
3 bringing it up is that the companies
4 have said that they can't afford it and
5 others have said that. It seems to be
6 very much dependent upon the leadership
7 of the company and which direction they
8 want to go. If someone out there has
9 some data to support it?

10 MR. BARLETTA:

11 I will go back and see
12 if I can quantify that ---

13 MR. DISTASIO:

14 Thank you.

15 MR. BARLETTA:

16 --- and provide a
17 written response to that.

18 MR. BURNS:

19 Any questions from the
20 audience? Bruce?

21 MR. WATZMAN:

22 Bruce Watzman, National
23 Mining. Lou, I'm curious. A couple
24 terms during the presentation you used
25 compliance and safety performance

1 together. And you know, do you see a
2 correlation today in the environment
3 we're in today where the compliance
4 activity is improving safety
5 performance at your operations? Or are
6 the two disconnected from one another,
7 I guess is the best way to put it?

8 MR. BARLETTA:

9 No. The last few
10 months I've been trying to correlate
11 that, Bruce, because we see that all
12 over the board. And I don't know if
13 it's somewhat of an inconsistency
14 across the different districts,
15 including ourselves, but what I see is
16 I would say there's a correlation
17 there.

18 We have a big mine that
19 has four exceptions this year. Their
20 violation rate is the highest it's ever
21 been.

22 I wonder myself, and
23 right now I'm not sure if there is a
24 direct relationship between the two.
25 That's something that we can take a

1 look at, so we can improve. I think a
2 lot of it comes down to consistency and
3 enforcement and how that all melds.

4 MR. BURNS:

5 Any other questions from
6 the audience? Okay. Thank you very
7 much.

8 MR. BARLETTA:

9 Thank you.

10 MR. BURNS:

11 The next speaker is
12 Fernando Chavez, Safety Manager for
13 CEMEX, South Florida Aggregates. I
14 don't know if he made it or not. We'll
15 move on to someone who signed up, Joe
16 Bourdage.

17 MR. BOURDAGE:

18 I don't have any slides,
19 so I'm just going to talk. My name's
20 Joe Bourdage, B-O-U-R-D-A-G-E, Director
21 of Health and Safety for Carmeuse Lime
22 and Stone. Carmeuse is family owned,
23 fifth generation, just recently
24 celebrated our 150 years. We have
25 2,000 employees in the U.S. and Canada.

1 We make lime, limestone and industrial
2 sand products. And our corporate
3 headquarters are here in Pittsburgh.

4 I just want to talk in
5 general about my thoughts, my own
6 personal thoughts on management
7 systems. I thank you for the
8 opportunity to talk today and commend
9 MSHA for looking at management systems.

10 There are many to pick
11 from. You mentioned some earlier. ISO
12 9,000, 14,000, 18,000. I believe
13 they're all good. I think they all
14 follow the general concept of plan, do,
15 check, act and they all share common
16 aspects.

17 And we've heard many
18 examples of those aspects today;
19 policy, commitment, training, hazard
20 control. I believe the most important
21 aspect is having those
22 responsibilities.

23 And as a benchmark, I
24 know in Ontario, these duties are
25 actually explicitly written in the

1 legislation for employers who hire
2 workers. That creates a great
3 framework foundation for a company to
4 establish what their goals and
5 responsibilities are. And it becomes
6 integrated to the industry as a whole.

7 And I want to talk about
8 the behavior, human behavior. The
9 human aspect, I think, is important in
10 any management system. But I want to
11 state that it should not be the system.
12 It should be part of the system. I
13 believe in the theory of management,
14 system-based safety and not
15 behavior-based safety.

16 And as I talk about
17 behavior-based elements, I think it's
18 important to make that distinction in
19 that it's not simply semantics. So my
20 cautions from my experience, 15 years
21 as a health and safety professional, is
22 that off the shelf behavior-based
23 safety is based on behavioral
24 psychology. It focuses on stimulus and
25 response. It does not focus on why the

1 behavior exists. It does not focus on
2 the system that allowed this behavior
3 to exist and continue. It also focuses
4 on the worker. It makes it very easy
5 to blame the worker. And focus on the
6 worker is he must be careful, must pay
7 attention.

8 Again, we should look at
9 the system as a whole. And I found in
10 my experience that any company that
11 actually does adopt behavior-based
12 safety actually goes above and beyond
13 the principles of behavior-based
14 safety. And I think we actually saw
15 examples of that today. When you begin
16 coaching employees on the risk
17 perception and the chances that they
18 take and asking them why do they take
19 those chances, when you begin
20 engineering out controls, you are not
21 doing behavior-based safety. You are
22 then doing the systems-based safety.
23 So let's call it what it is;
24 systems-based safety management.

25 At Carmeuse, I will

1 share an example of aspects that we
2 have taken to encourage worker
3 involvement and improve worker
4 involvement. And we took this program
5 that MSHA developed, and we formalized
6 it. And had workers assess the risks
7 of the jobs they were doing. And the
8 reason we did this is because we
9 recognized that the perception of the
10 risk between that worker and their
11 supervisor and myself or anyone else
12 can be very different. And when we
13 asked an employee if he has ever worked
14 unsafe, and only 60 percent answered
15 that, that's because, in their opinion,
16 they didn't work unsafe. However, it
17 may have been unsafe in my opinion.

18 So we have taken that
19 assessment and formalized it and the
20 supervisors follow up with the
21 employees when they've done the risk
22 assessments, and they look for
23 opportunities for improvement. And we
24 have found --- I don't have a number
25 for you, but numerous improvements of

1 the way they do the job.

2 One of the examples I
3 heard today was the reason an employee
4 does something unsafe is because it's
5 the only way to do it. We found many
6 examples of where the employees felt
7 that was the case. Safe access is a
8 common theme that comes up. However,
9 with the management commitment, they
10 were able to engineer out those hazards
11 and find a safe way to do the job.

12 So going back to the
13 fact of system management-based safety,
14 I think the challenge will be how you
15 regulate that. Again, going to my
16 benchmark in Ontario, that regulation
17 is performance based. And it's
18 actually stated in the legislation that
19 a company must have a health and safety
20 program, but it does not stipulate what
21 that program must look like. It does
22 state some common elements that must be
23 incorporated.

24 However, compliance with
25 that element is obviously very

1 subjective. And my theory with the
2 enforcement model of MSHA does not lend
3 itself to subjective evaluations.

4 However, an effective safety management
5 system must be flexible, must be
6 creative. The level of sophistication
7 would depend on the site, the company.

8 And as said earlier today, one size
9 does not fit all, and thank you for
10 that.

11 So to that end, I would
12 encourage MSHA with whatever direction
13 they decide to take, that education and
14 training is the key on just what a
15 management system is. Unless a
16 person's been trained formally on one
17 standard, ISO 9,000, 14,000, a
18 management system is a difficult
19 concept to understand.

20 And I will say that I
21 don't have statistics in front of me,
22 but in my experience sites that are the
23 most proactive and have the most
24 effective safety programs have the most
25 evolved management systems. And that

1 concludes my comments. Any questions?

2 MR. BURNS:

3 Thank you very much,
4 Joe. Does anybody on the panel have
5 any questions? Anybody from the
6 audience have any questions for Joe?
7 Thank you very much. If Fernando
8 Chavez comes back into the room, it's
9 his turn to speak. If not, is there
10 anybody else that wanted to make a
11 presentation that hasn't signed up?

12 MR. DUCHARME:

13 Excuse me. Kevin?

14 MR. BURNS:

15 Yes.

16 MR. DUCHARME:

17 Can we just ask for that
18 legal citation for that Ontario
19 section?

20 MR. BURNS:

21 Sure. I don't know if
22 he knows it. Do you have the citation
23 for that Ontario statute?

24 MR. BOURDAGE:

25 It's called the

1 Occupational Health and Safety Act for
2 Ontario.

3 MR. BURNS:

4 Thank you.

5 MR. DUCHARME:

6 Is there a year for
7 that, Joe?

8 MR. BOURDAGE:

9 Off the top of my head
10 I'm going to guess 1977, but I'm not
11 sure.

12 MR. BURNS:

13 Okay. Is this specific
14 to quarry, or is this a general ---?

15 MR. BOURDAGE:

16 No. Legislation there,
17 the Act in general applies to all
18 industries. And under the Act they
19 have regulations that get more
20 restrictive on certain --- similar to
21 the MSHA regulations.

22 MR. DUCHARME:

23 Thank you very much.

24 Well, since nobody else wishes to make
25 a presentation, I do want to say thank

1 you. The Mine Safety and Health
2 Administration appreciates your active
3 participation in this meeting.

4 And I want to remind you
5 that all comments must be received by
6 midnight Eastern Standard Time December
7 17th, 2010. I can assure that we will
8 take your comments and your concerns
9 into consideration in developing the
10 agency's proposed rule of safety and
11 health management programs.

12 I want to encourage all
13 of you to continue to participate
14 throughout the rulemaking process. The
15 public meeting on health and safety
16 management programs is completed. And
17 thank you very much.

18 * * * * *

19 MEETING CONCLUDED AT 12:55 P.M.

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CERTIFICATE

I hereby certify, as the stenographic reporter, that the foregoing proceedings were taken stenographically by me, and thereafter reduced to typewriting by me or under my direction; and that this transcript is a true and accurate record to the best of my ability.



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