1	
2	
3	PUBLI C HEARI NG
4	ON
5	MSHA'S PROPOSED RULE FOR REFUGE
6	ALTERNATIVES FOR UNDERGROUND COAL MINES
7	
8	* * * * * * * * *
9	
10	
11	AUGUST 5, 2008
12	9: 00 A. M.
13	
14	
15	* * * * *
16	
17	
18	HILTON SUITES LEXINGTON GREEN
19	LEXINGTON, KENTUCKY
20	
21	
22	* * * * * * * * *
23	
24	
25	

1	<u>MODERATOR</u>
2	Ms. Patricia W. Silvey
3	Ms. Patricia W. Silvey Director, Mine Safety and Health Administration Office of Standards, Regulations and Variances
4	
5	PANEL MEMBERS:
6	Mr. Larry Davey
7	Mr. Larry Davey Mr. Howard Epperly Mr. Eric Sherer Mr. Ronald Ford
8	Mr. Steve Turow
9	* * * * * * * *
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

I	MS. SILVEY: Let's get started this
2	morning. Good morning. My name is Patricia W. Silvey.
3	I am the Director of the Mine Safety and Health
4	Administration Office of Standards, Regulations, and
5	Variances. I will be the moderator of this public
6	hearing on MSHA's Proposed Rule on Refuge Alternatives
7	for Underground Coal Mines. On behalf of Richard E.
8	Stickler, the Acting Assistant Secretary of Labor for
9	Mine Safety and Health, I want to welcome all of you to
0	today's hearing.
1	Before we get started for this
2	hearing, and as we approach the one-year anniversary of
3	the Crandell Canyon accident, I would like to ask all
4	of you if you would pause with me and the panel for a
5	moment of silence in memory of the dedicated miners and
6	the heroic efforts of the rescuers, of the three
7	rescuers who lost their lives in the Crandall Canyon
8	accident; and as many of you know, including one of
9	MSHA's own. I would also ask you to take this memorial
20	pause in memory of all the miners who have lost their
21	lives working in the mines in this country from the
22	beginning of time and throughout the world. And as I
23	know we will hear later on this morning, and take a
24	particular reflection of the miners who lost their
25	lives in the Kentucky Darby mine explosion. So if you

- 1 would pause with me for a moment of silence. Thank2 you.
- 3 At this point I'd like to introduce the members of the MSHA panel, and members of this 4 5 panel were instrumental in drafting the document that 6 serves as the agency's proposal. To my right is Howard 7 Epperly, and Howard is the team leader of this project. 8 He is with the MSHA's Approval and Certification Center 9 in the Office of Technical Support. To his right Larry 10 And I'd like to introduce Larry. Larry 11 actually is a member of Occupational Safety and Health 12 Administration, or as I call it OSHA, and he is on 13 detail to MSHA so we -- to help us develop this rule
- To my left, Eric Sherer. Eric is
 with the Office of Coal Mine Safety and Health. To his
 left Ron Ford. Ron is an economist in my office. And
 to his left Steve Turow. Steve is with the Department
 of Labor's Office of the Solicitor.

and get it out in a quick period of time.

14

20

21

22

23

24

25

This is the third, as many of you know, of four public hearings on the proposed rule. We held hearings in Salt Lake City and Charleston, West Virginia last week and the fourth and final hearing will be in Birmingham on Thursday, August 7th. The comment period for the proposal closes on August 18th.

- MSHA must receive your comments by midnight Eastern 1 2 Daylight Savings Time on that date. You can view any 3 comments on the agency's website at www.msha.gov. 4 in the back of the room we have a few copies of the 5 proposal and the Preliminary Regulatory Economic 6 Anal ysi s. 7 The proposed rule, as many of you 8 know, would implement the provisions of Section 13 of 9 the Mine Improvement and New Emergency Response or the 10 MINER Act of 2006 and would apply only to underground 11 coal mines. 12 The MINER Act requires that the 13 National Institute for Occupational Safety and Health 14 conduct research on refuge alternatives. NI OSH i ssued 15 its report in January of 2008. 16 MSHA's proposed rule is based on the 17 agency's data and experience, recommendations from the 18 NIOSH report, research on available and developing 19 technology, and regulations of several states.
- Before I start to discuss the
 proposal, I want to reiterate and underscore an
 important mine emergency principle embodied by both
 MSHA and the mining community, it is a longstanding
 principle that in the event of a mine emergency
 underground the first line of defense is for the miner

1 to try to escape. Only if escape is impossible would 2 the provisions of the proposal come into play. 3 Under the proposed rule a refuge 4 al ternative would provide a protected secure space with 5 an isolated atmosphere that creates a life-sustaining 6 environment to protect miners and assist them with 7 escape in the event of a mine emergency. 8 The proposed rule allows the use of 9 several types of refuge alternatives and includes 10 requirements that the manufacturer or third-party test 11 the refuge alternative and its components prior to 12 obtaining MSHA approval. 13 Under the proposal three types of 14 refuge alternatives would be allowed, a prefabricated 15 self-contained unit; a secure space constructed in 16 place; and materials prepositioned for miners to use to 17 construct a secured space. 18 Some of the major provisions of the 19 proposed rule are refuge alternatives would need to be at least 15 square feet of floor space and 60 cubic 20 21 feet of volume per person. 22 The capacity of refuge alternatives 23 near the working section would be the maximum number of

persons that can be expected. The capacity of refuge

alternatives in an outby area would be the maximum

24

1	number of persons assigned to work in the area.
2	Refuge alternatives would be located
3	between a thousand feet and 2,000 feet from the working
4	face and where mechanized mining equipment is being
5	installed or removed. For outby areas, refuge
6	alternatives would be located within one-hour travel
7	distances, however, the operator may request and the
8	district manager may approve a different location based
9	on an assessment of risks to person in outby areas.
10	Refuge al ternatives and their
11	components would need to sustain persons for 96 hours
12	or 48 hours if advanced arrangements are made for
13	additional supplies, particularly air from the surface.
14	Food, water, lighting, sanitation,
15	and a two-way communication system would need to be
16	provi ded.
17	Refuge al ternatives approved by
18	states or by MSHA in the Emergency Response Plan prior
19	to promulgation of the final rule would be allowed
20	until replaced or a ten-year maximum. And the refuge
21	alternative components approved by states or by MSHA in
22	the Emergency Response Plan would be allowed until
23	replaced or a five-year maximum.
24	The location, capability, and
25	capacity of refuge alternatives would be addressed in

I	the written Emergency Response Plans.
2	Training of miners to locate,
3	transport, activate, use, and maintain refuge
4	alternatives would be integrated into existing
5	quarterly drills and annual expectations training.
6	Pre-shift examinations of refuge
7	alternatives would be required.
8	Refuge alternatives would need to be
9	located on mine maps.
10	MSHA has estimated the economic
11	impact of the proposal and has included a discussion of
12	the cost/benefit impact on small mines and paperwork
13	requirements in the preamble to the proposal and the
14	Preliminary Regulatory Economic Analysis of the
15	preamble. The preamble assesses the provision in the
16	rule and includes a complete discussion of a number of
17	specific requests for comment.
18	I would like to briefly mention some
19	of them here. MSHA requests comments on the estimated
20	service life of prefabricated self-contained refuge
21	alternatives and estimated service life of components;
22	The proposed definition for
23	breathable oxygen as 99 percent pure oxygen with no
24	harmful impurities; also the proposed minimum of 96
25	hours of breathable air

1	The sources of heat generation within
2	a refuge alternative, methods for mitigating heat
3	stress and heat stroke, and methods for measuring heat
4	stress on persons occupying refuge alternatives;
5	The proposal would require that the
6	apparent temperature within refuge alternatives in use
7	at full capacity not exceed 95 degrees Fahrenheit. And
8	I would like to note that Footnotes 1 and 2 in the
9	preamble should have cited the NIOSH report as the
10	basis for the agency's proposal on apparent
11	temperature.
12	We also request comments on whether a
13	requirement that refuge alternatives be designed with a
14	means to signal rescuers on the surface should be added
15	in the final rule. This would assure that rescuers on
16	the surface could be contacted if the communication
17	systems become inoperable.
18	Also, whether the final rule should
19	include a requirement that the manufacturer design
20	refuge alternatives with a means to signal underground
21	rescuers with a homing device. This would assure that
22	rescuers could detect trapped miners within the mine.
23	The proposal would require that a
24	refuge al ternative provide a two-way communication
25	facility that is part of the mine communications system

- 1 which can be used from inside the refuge alternative,
- and an additional system as defined in the operator's
- approved Emergency Response Plan, or ERP.
- 4 I would also like to clarify that the
- 5 proposal approval requirements in 7.504(c)(1) should
- 6 reflect the same requirements as the proposed safety
- 7 standards.
- 8 We also ask for comments on the
- 9 types, sources, and magnitude of lighting needed for
- 10 refuge al ternatives.
- 11 Footnote 3 in the preamble should
- have cited Pages 124 and 25 from the August 23rd, 1999
- 13 revision of the Department of Defense Standards, the
- 14 proposed minimum space and volume requirements and the
- 15 feasibility of using certain types of refuge
- 16 alternatives in low coal mines.
- 17 We also ask for comments on the
- proposed minimum flow rate of 12.5 cubic feet per
- minute of breathable air for each miner.
- 20 We also requested comments on the
- 21 proposed setting for pressure relief and whether a high
- pressure relief should be required. The proposal would
- require that fans or compressors provide positive
- 24 pressure and an automatic means to assure that the
- pressure is relieved in the refuge alternative at 0.25

1	PSI above mine atmospheric pressure;
2	The proposed requirement for carbon
3	monoxide detectors and for compressors or fans at the
4	surface, and that they provide automatic and visual
5	alarms if carbon monoxide levels in supplied air
6	exceeds ten parts per million;
7	The visual damage that would be
8	revealed during pre-shift examinations;
9	The proposed rule would require that
10	refuge al ternatives be designed to provide a means to
11	indicate unauthorized entry or tampering and allow for
12	pre-shift examination or critical components without
13	entering the structure.
14	The agency is concerned with the
15	feasibility and practicality of visually checking the
16	status of refuge al ternatives without having to enter
17	the structure or break the tamper-evident seal.
18	We also ask for comments on the
19	proposed requirement for locating refuge alternatives
20	in inby areas as well as the ultimate provision
21	discussed in the preamble that would allow refuge
22	alternatives in these areas to be located up to 4,000
23	feet from the working face, depending on mine-specific
24	conditions if they are connected to the surface with

25

bore holes;

1	The proposed approach to the capacity
2	of refuge alternatives in inby and outby areas, and the
3	proposed approach to locating refuge alternatives in
4	outby areas including minimum and maximum distances.
5	We ask for comment on whether the
6	final rule should contain a requirement that advance
7	arrangements specified in the ERP include a method for
8	assuring that there would be a suitable means to
9	connect the drilled hole to the refuge alternative and
10	that the connection be made within ten minutes;
11	The proposed training requirements
12	for persons assigned to examine, transport, and
13	maintain and repair refuge alternatives and components
14	and whether it would be more appropriate to include
15	this training under the training provisions of 30 CFR
16	Part 48.
17	And just equally as important, we ask
18	for comments on the proposed approach to annual
19	expectations training for miners in construction, where
20	applicable, activation, and use of refuge alternatives
21	and components. Comments should address the proposed
22	strategy and the proposed elements of training.
23	The agency is also soliciting
24	comments on proposed information collection
25	requirements. Please provide comments on all data and

- assumptions the agency has used to develop estimates of information collection as well as estimates of cost and benefits in the proposal.
- As you address these provisions,
 either in your testimony to us today or in your written
 comments, please be as specific as possible including
 alternatives, your suggested rationale, safety and
 health benefits to miners, technological and economic
 feasibility, and data to support your comments.

- The agency will use this information to help evaluate the requirements in the proposal and produce a final rule that will improve safety and health for underground coal miners in the event of a mine emergency in a manner that is responsive to the needs and concerns of the mining public.
- As many of you know, this hearing will be conducted in an informal manner and formal rules of evidence will not apply. The panel may ask questions of the witnesses. The witnesses may ask questions of the panel.
- MSHA will make a transcript of the hearing available on the agency's website within one week of the hearing. And as most of you know, time is of the essence in developing the final rule which must be finalized by December 31, 2008.

1	If you wish to present written
2	statements or information, please clearly identify your
3	material and give it to the court reporter. You may
4	also submit comments, as mentioned earlier, following
5	this hearing by any of the methods identified in the
6	proposal.
7	We also ask that everyone in
8	attendance, if you would sign the attendance sheet in
9	the back of the room. If you have a hard copy or
10	electronic version of your presentation we would
11	appreciate it if you would provide the court reporter
12	with a copy.
13	We will now begin today's hearing.
14	And if you would clearly state your name and
15	organization and spell your name for the court reporter
16	this will help assure an accurate record. And at this
17	point we will start today's hearing.
18	Our first speaker is Connie Hendren
19	with CD Safe Shields, Inc. Mr. Hendren.
20	MR. HENDREN: Good morning. Is it
21	on?
22	MS. SILVEY: Yes.
23	MR. HENDREN: Good morning. My name
24	is Connie Hendren with CD Safe Shields. That's
25	C-O-N-N-I-F H-F-N-D-R-F-N With me is I can't

- 1 spell your last name.
- 2 MR. GEVEDON: Hank Gevedon with PSR.
- 3 I'm here for technical support.
- 4 MR. HENDREN: Spell your name.
- 5 MR. GEVEDON: H-A-N-K, G-E-V-E-D-O-N
- 6 with PSR Group.
- 7 MR. HENDREN: And Clark Johnson with
- 8 Carroll Engineering. We appreciate this opportunity to
- 9 be able to talk with you-all for just a few minutes.
- 10 Since this is informal and since I have never done
- anything like this before, you-all stop me when you
- 12 want to, once I get started talking I may be here for
- 13 awhile.
- So just tell me, is fifteen minutes
- too much or what is the normal -- I would have loved to
- 16 have been second or third.
- 17 MS. SILVEY: That's okay. Just go
- 18 ahead.
- 19 MR. HENDREN: Go ahead?
- 20 MS. SI LVEY: Yes.
- MR. HENDREN: Okay. We're here today
- to talk about a mine refuge chamber. PD3 has been
- working with CD Safe Shields. Our company is located
- in Mount Vernon, Kentucky. And we've been doing some
- research on this for over twenty months to date.

1	We've been working with mine
2	operators, mine safety operators, mine owners, and with
3	insurance companies. We have taken a little bit
4	di fferent approach.
5	We went to Triadelphia, West Virginia
6	two weeks ago on the 24th and met with Joe Judeikis,
7	and a group which included Mr. Epperly, and had a
8	wonderful three to four-hour question and answer
9	sessi on concerning the project that we have.
10	One of the features that we have that
11	is rather unique is that we have a modular device unit
12	that will withstand the MSHA standard of PSI 15 PSI,
13	yet it can be made into a two-foot, three-foot,
14	four-foot, five-foot unit. We'll be able we have a
15	unit sitting out front of the Hilton Suites and at your
16	convenience sometime we would like to be able to show
17	you and walk you through this unit and be able to
18	describe to you what we've been able to do.
19	We've tried to utilize the panels
20	within the unit itself for storage capacity. We
21	realize that the breathable air, that the gasses, the
22	coolant, is the most important part of the things that
23	will need to be done. We also understand that we have
24	the food, water, medical supplies, waste disposal, and
25	that's all included in our units

I	inis unit is prepared to withstand up
2	to 2,000 pounds roof Load. We have reinforced the
3	sides. We have a quarter-inch steel sled that you will
4	see that it can be pulled from one area to another.
5	And what we're suggesting, we can
6	make it any height and any width that you want. The
7	unit we have out here is a six-person unit that is
8	eight-feet wide. Because most of the cuts are
9	twenty-foot wide you can pull our units through there,
10	the mine, and you do not have to wait for a crosscut.
11	When you get to a point to where it's up to 2,500 feet
12	or whatever MSHA finally approves that you need to stop
13	there and bring another unit in, you have two choices:
14	You can pull that unit forward and bring a new unit
15	behind it or you can actually bring another unit in by
16	pallets. Our units can be palletized.
17	And I would like to in talking
18	with Mr. Judeikis, he gave us and his staff, I guess
19	we've passed back and forth 15 to 20 e-mails since
20	we've been up there, and he has given us a lot of good
21	suggestions on what we need to do.
22	One of the things that we're going to
23	do starting the last week of August is we're going to
24	drag our unit through a rock quarry. Mr. Judaicus has

suggested that these units are going to have a lot of

- 1 wear and tear on them if, in fact, they stay for ten
- 2 years. So what is going to happen to the pan on a unit
- 3 since as this. So we're going to start -- there's a
- 4 rock quarry across the road from our facility in Mount
- 5 Vernon that is -- has one of the shafts that's two and
- 6 a half miles long. We're going to monitor this and
- 7 send information back to MSHA as to what happens
- 8 through the wear and tear of this.
- 9 At this time in addressing the
- 10 breathable air and the cooling system and the gas
- 11 monitoring system, I'd like if Hank would talk a little
- 12 bit about that.
- MR. GEVEDON: Following the
- regulations that were set up in relationship, we've
- gone through the process of finding systems that are
- 16 compatible. We still have several systems that are up
- for MSHA approval and we'll be moving for that.
- But in to relationship to the removal
- of CO_2 , we have a system in place according to that.
- 20 You asked a question earlier about the lighting, that
- is set up. We're using a 12-volt cooling system. Many
- of the systems that -- we're using the regulations
- actually as our guidelines so I would hope that our
- report to you would be more formalized in terms of
- answers to direct questions.

1	The overall goal, of course, is to
2	provide a flexible system that will allow for mine
3	safety and optimize the amount of breathable air down
4	there. Temperature control, we have several systems in
5	relationship, of course, for sanitation, breathable
6	air, removal of ${\rm CO_2}$, food, overall ease of use.
7	We have some monitoring systems that
8	monitor both the interior and exterior of the airlock
9	as well as the outside systems. And we have several
10	things that are going into this particular model that
11	with MSHA approval should make it a reasonably diverse
12	unit and also give us some different shapes.
13	The ability to make a unit for four
14	people, six people, eight people, ten people, or to
15	allow a unit to grow, we believe looks at addressing
16	the needs for having the exact size unit you need there
17	in relationship to the number of people working.
18	I could go on and talk about it. A
19	little later if you have an opportunity to step out and
20	look at it, it's much more self-explanatory than me
21	trying to explain the elephant to you from here when
22	you can actually go look at it.
23	But any specific questions you would
24	have in relationship to the concerns you just brought
25	up, we'll be glad to ask. There's also representatives

- 1 from our group outside with the unit. So at any point
- 2 in time you can ask them, please feel free to ask them
- 3 any questions about the construction, its design,
- 4 lifespan, and those types of questions.
- 5 MR. HENDREN: In addressing the needs
- 6 for this unit we've looked at three or four different
- 7 things. First of all, Clark Johnson is here as
- 8 president of Carroll Engineering. Carroll Engineering
- 9 is well known in the mining safety field. They're
- 10 going to be doing our maintenance on our units. We
- 11 wanted to get someone with a sterling reputation and we
- 12 feel like in working with Carroll Engineering we have
- 13 done just that.
- 14 In coming up with a product we've
- taken a little bit different approach, and if you would
- just bear me out on this because it may seem a little
- 17 bit different. But we've looked at this as a
- three-prong approach. We, first of all, have to answer
- 19 MSHA's requirements, that's a must. In order to be
- approved we have to make sure that we answer your
- 21 requirements.
- Secondly, we have to have a product
- that is going to be relatively simple for the mine
- companies to understand and be able to put out for
- 25 their miners. We can sit here today in a nice cool

- 1 atmosphere and make decisions easily. There's no
- 2 pressure at all. What happens in a panic situation?
- 3 And we put this together with a worst-case scenario.
- 4 In dealing with the mine companies
- 5 the first thing everyone wants to do, of course, is you
- 6 have got to find a way out, that's the first thing
- anybody is going to do. If there's not a way out this
- 8 is the last resort, so to say. So we want to make this
- 9 as easy as possible to operate.
- 10 In meeting with Mr. Judeikis and his
- group up there, one of the things that he suggested
- besides wear and tear on this, he said go to a 5th or
- 13 6th grade class, teach them what you want to do, about
- opening the doors, about reading the gas sensors.
- 15 Because when you have a pressure situation you can't
- 16 make good judgment decisions.
- 17 I'm nervous right now talking with
- 18 you. If we were in an atmosphere one-on-one out at a
- table there I would be able to tell you a lot more of
- what I feel, but I'm in a semi-panic mode.
- I can't imagine what it would be to
- be in a hole four-feet high that has collapsed back
- there that gasses unknown to you are out there and you
- 24 don't know whether you are going to live or die. You
- 25 can't make good judgments, quick judgments at that

- 1 time.
- 2 So what we've tried to do is tried to
- 3 eliminate a lot of thinking in order to get this done.
- 4 With seven turns of a dog ear -- you will see what a
- 5 dog ear out there is, you turn seven screws and you are
- 6 inside the unit. Can you see it? Well, if it's a lot
- 7 of dust and you can't see the beacon going, you can
- 8 hear it. You are within fifty feet of the thousand
- 9 feet of where you are working, and pardon the
- 10 expression, all hell breaks loose and you have got to
- 11 get somewhere, you can hear it or you can see it.
- 12 Once you get to it, you turn seven
- 13 knobs, two minutes, and you will be inside the
- 14 antechamber. The first thing you do inside the
- 15 antechamber, you check your monitor on the gas. More
- than likely I would be using the chemical toilet first.
- 17 But anyway, you would check the gas to see what you
- have got inside there. These are all things that you
- don't have to be a very educated person, and I'm not,
- to be able to see this.
- 21 We were told by MSHA that one out of
- five miners are color blind. So inside of having
- 23 Christmas tree lights to monitor the gas, there will be
- a light on that will show gas is good, caution, or bad.
- 25 And you will be able to read those lights rather than

- 1 just have the light itself. We're trying to make this
- 2 as user-friendly as possible. Because that way not
- only the mine owners will accept it but the miners will
- 4 accept it.
- 5 Twenty years ago no one wanted to use
- 6 seat belts, and look what's happened. It's evolved
- 7 over that. I think you-all are in a primary stage of
- 8 being able to set forth now something that ten to
- 9 fifteen years from now is going to be a way of life and
- 10 we all have to live with it.
- Now, the third prong of this is
- insurance companies. If I'm a mine owner and I'm going
- 13 to spend \$75,000 to \$100,000, what am I going to get?
- 14 I'm going to get safety for my men, and that's number
- one. But if you are an insurance company and you look
- 16 at this product and say hey, they've tested this,
- 17 they've had a manned-test unit. And that's what we
- 18 want to do.
- We want to put four to six men in a
- 20 unit in a mine and have it tested. And if there's a
- 21 manned-tested unit, we've talked to three different
- insurance companies, and this could make a difference
- in their policy as a mine owner and it could be able to
- 24 pay a large portion of what these units are going to
- cost over a period of a long time.

So we're trying to design something 1 2 that's MSHA-approved, user-friendly, and that insurance 3 will make take a second look at and perhaps give them a 4 break. 5 Now, lastly, you talked for a minute 6 about being able to communicate. On our unit we have a 7 sonic thumper, the minute the doors are closed there 8 are three radiowaves that go to the surface. 9 seismograph you can triangulate and be within five feet 10 of where this unit is sitting. This gives the miner 11 inside there another comfort level. I know when I've 12 shut the doors that immediately something has happened, 13 they know where I am. 14 This is also equipped with a system 15 that if you don't reset this system every twelve hours 16 it will go off automatically. So if something should 17 happen and they're incapacitated at the time at least 18 you will know where that unit is. Clark, do you have 19 anything else? 20 MR. JOHNSON: I don't think so. 21 MR. HENDREN: Hank, if you have 22 anythi ng. 23 MR. GEVEDON: I don't think so. 24 MR. HENDREN: I'm ready for 25 Whatever you can do or want to do.

auesti ons.

- 1 MS. SILVEY: As you stated, Mr.
- 2 Hendren, at some point in today's proceedings we're
- 3 going to break and the panel is going to go out and
- 4 take a walk through the unit that you have outside.
- 5 MR. HENDREN: Yes, ma'am.
- 6 MS. SILVEY: But I do have just one
- 7 question. You mentioned that at some point you were
- 8 going to take four to six persons in a mine and have
- 9 the unit tested. I take it that you haven't done this
- 10 yet. When do you plan to do this?
- MR. HENDREN: We plan to do that when
- we get permission.
- 13 MS. SILVEY: After it's approved?
- MR. HENDREN: Yes, ma'am. Yes,
- 15 ma'am. Our insurance company has taken a rather dim
- 16 view of that until we get approval.
- 17 MS. SILVEY: Right.
- 18 MR. HENDREN: But we do think it
- 19 needs to be done. To me, buying a unit right now
- without a manned test is like buying a car with no
- 21 steering wheel: It may run good but you won't know
- 22 whether it will turn or not until you try it.
- 23 MS. SILVEY: All right. Okay. So
- 24 that everybody in the room understands, if after we go
- out and have the walk-through then if we could reserve

if we have any questions of you after we see it and 1 2 everything, then we'll bring you back and whatever 3 questions we have so everybody will be able to hear it. 4 MR. HENDREN: That would be fine. 5 And we will walk through and give you another 6 presentation out there and go over everything and then 7 whatever questions we'll be glad to come back and 8 answer. 9 MR. GEVEDON: From a development 10 standpoint, the unit outside is basically a large model. It's a lot easier to understand. We've had 11 12 some people ask some questions, about half a dozen 13 components are still actually in manufacture and 14 outsourcing. So if you see something that looks like 15 it's made out of a piece of plywood and should be 16 replaced with a piece of aluminum, it's merely being 17 So please ask questions about those. sourced. Wi I I 18 this be look like this or will this be like this? 19 But we found it much easier to 20 explain to bring a large model and bring it. So it was 21 very explanatory in relationship to how the system 22 So please ask those pointed questions, if we 23 say that unit is being developed in aluminum right now, 24 bear with us. You'll see it very shortly. 25

Thank you very much.

MS. SILVEY:

- 1 Thank you all. Before we get our next group I
- 2 didn't -- I should have introduced another person who
- 3 is responsible for helping work on this proposal who is
- 4 in the audience, and that's David Hershfield. David is
- 5 here and he is an economist in my office. So I should
- 6 have done that in the beginning.
- 7 Now we will have our next group. And
- 8 the next will be a group. We have Tilda Thomas who is
- 9 the widow of Paris Thomas, and he was one of the miners
- 10 who lost his life in the Kentucky Darby disaster.
- 11 We have Tracy North, the daughter of
- 12 Paris Thomas.
- And accompanying them is Tony
- 14 Oppegard. And Tony is an attorney in the Lexington,
- 15 Kentucky. So we will now have our next speaker.
- MS. THOMAS: That's my husband. My
- 17 name is Tilda Thomas and I'm the widow of Paris Thomas.
- 18 And this is our daughter, Tracy North. And my husband
- and I had been married for thirty years. He had just
- 20 turned 53 when he got killed. And he died on our
- 21 grandson's first birthday, my oldest grandson, which
- turned a year old when his grandfather died. And my
- 23 daughter here was pregnant with her second son when her
- 24 father died. And our grandsons are three and two now.
- 25 And we miss him very much. He was, you know, a big

- 1 part of my life.
- 2 I've knowed him -- I started dating
- 3 him when I was sixteen, and we were married for thirty
- 4 years. And he just was the foundation of my -- my best
- 5 friend, my everything. And it's hard without him. It
- 6 really is. It's hard adjusting to a different life
- 7 after -- and he was a good, hard-working man, a decent
- 8 man. And he went underground in 1984 I think, and he
- 9 had worked for like 27 years underground. And he said
- 10 I go to work, I work for my family, so my family can
- 11 have, you know, things.
- 12 And everyday it's hard. He's been
- 13 gone two years now. Sometimes it feels like forever
- that he's been gone and some days it feels like
- 15 yesterday, you know, constant thoughts. We also -- I
- had a son named after his father, Paris Lee Thomas, he
- 17 died eight years ago. We just had my son and my
- 18 daughter.
- 19 I just feel like -- and I have two
- 20 brothers that are disabled coal miners. And I have a
- 21 younger brother -- well, he's like 40 but he's my
- 22 younger brother, and he's working underground now. And
- 23 I just want, you know, want anything that can make it
- safe for the miners and be able to be safe for them and
- be able to work under the safe conditions, you know I'm

- 1 all for it. You know, these men risk their lives
- 2 everyday for their families and they work hard. My
- 3 husband would go to work lots of times when his knees
- 4 and stuff was hurting him so bad. But he would go on
- and say, you know, I'm working for my family.
- 6 And he would have been 54 April 28th
- of this year. I just -- like my younger brother, he
- 8 stayed out a week after my husband died -- I mean a
- 9 year. He quit working in the mines and was going to
- 10 try to not go back, but he went back because of the
- 11 money and to support his -- raise his family. And I
- worry about him, like all of the men underground that
- are just hard-working men.
- 14 And I just hope that they can get
- 15 these chambers to work. If something like this does
- happen again that they will be able to be safe and will
- 17 be rescued. Because my husband and the other men, they
- died a horrible death. I think about it a lot and him
- 19 dying in there alone, you know. And my grandson, he
- 20 was just a year old but he remembers his grandfather
- 21 and he talks about him all the time. But the second
- 22 grandson don't know him.
- MS. NORTH: My name is Tracy North.
- 24 And it hurts as bad today as it did the day that it
- 25 happened. And it's really hard for me without my dad.

- 1 I wish that he had a place where he could have went to
- 2 be saved. He may still be here today. And I just -- I
- 3 hope that this goes through for the other miners, so
- 4 that their families don't have to experience the loss
- 5 that we have.
- 6 MS. SILVEY: I was just going to say
- 7 to both you, Ms. Thomas, and Ms. North, that again, we
- 8 at MSHA, and I'm sure I speak for everybody in this
- 9 room when I say this, we -- you know, you say a lot of
- 10 times that you can feel somebody's pain, but you really
- 11 can't really feel it. But in any event, we empathize
- with you and, again, express our sympathy.
- 13 And just like you said, you probably
- 14 put it better than I can put it, and that is that one
- of the purposes of this rule is to try to develop some
- 16 place they could go to at least be saved, or as you put
- 17 it, until they're rescued. So again, on behalf of us,
- we express our sympathies to you and to your entire
- 19 family. And just wish you the best.
- 20 MS. THOMAS: Thank you.
- 21 MS. SILVEY: And thank you for
- coming. We appreciate your testimony.
- 23 Our next speaker is Mr. Paul Ledford
- and Mr. Ledford is the sole survivor of the Kentucky
- 25 Darby accident. Mr. Ledford.

1	MR. LEDFORD: My name is Paul
2	Ledford. And I'm the survivor of the Kentucky Darby
3	explosion. I worked in the mines about fifteen years.
4	And I believe these chambers will help save lives in
5	the future if they're used by the coal operators. They
6	will be a safe haven for the miners in case of an
7	emergency. They will not have to decide whether to
8	barricade themselves and hope someone will rescue them
9	or try to make it out alive.
10	When me and my buddies at Darby would
11	get together and eat lunch, we'd talk about Sago and
12	how long it took the rescuers to get the men out. We
13	decided if anything happened we'd try to make it out
14	instead of barricading. If we had a refuge chamber we
15	would have waited in the chamber until the rescuers
16	come and helped us out. There would have only been two
17	fatalities that day if we had a refuge chamber. And
18	there would have only been one fatality at Sago instead
19	of twelve if they had refuge chambers.
20	In the proposal they were to be
21	within a thousand foot of the working face. I believe
22	they need to be closer than that. I believe they
23	should be 200 to 300 feet behind the section center but
24	no further than 500 foot. According to the MSHA
25	report, one of the Kentucky Darby deceased barely made

- 1 it a thousand foot. A thousand foot is too far to
- 2 travel at a time of emergency. There would be no sense
- 3 in having the rescue chamber if the men can't make it
- 4 to them.
- 5 The rescue chamber will save lives if
- 6 you make it a law that they'll have to be in the mines.
- 7 We know the coal operator is going to be against the
- 8 refuge chambers because of the cost. The cost of the
- 9 chamber is estimated between \$65,000 and \$100,000, but
- 10 most coal operators make that in a week. Besides, if a
- 11 chamber saves a man's life, there's no cost greater
- 12 than that.
- 13 Another one of the proposals is that
- 14 they could have the materials to build them a
- 15 barricade. In the time of that it's so smoky and dusty
- 16 you can't see to build one; and if you did, the smoke
- 17 would be in there anyway. You are so panicked and
- don't make good decision.
- 19 And most coal operators would take
- 20 that proposal because it would be a lot cheaper on
- them, but it wouldn't be as safe as the refuge
- 22 chambers. And a thousand foot, too, I think would be
- too far, like I said, one died in the thousand foot
- that he made it. That's just too far to go in an
- emergency.

- 1 MS. SI LVEY: Okay. Thank you, Mr.
- 2 Ledford. And we appreciate your coming forward and
- 3 your testimony and your comments. And we'll take them
- 4 into consideration. I don't have any questions. We
- 5 very much appreciate you coming. Thank you. Our next
- 6 speaker then is Kenny Johnson.
- 7 MR. JOHNSON: Pardon me. Good
- 8 morning. My name is Kenny Johnson, K-E-N-N-Y,
- 9 J-O-H-N-S-O-N. I'm nobody of note. I just come today
- 10 to offer my support and encouragement to those who are
- 11 engaged in this endeavor of making these coal mines
- 12 safer.
- 13 I started in the coal mine in 1970
- 14 folding top underground in a coal mine. I spent many
- of those years since 1970 doing various jobs and met a
- 16 lot of the people, knew a lot of the coal miners. Went
- to work for the United Mine Workers of America, met a
- 18 lot of coal miners in a lot of different states.
- 19 And one thing I learned is that coal
- 20 miners are pretty much the same everywhere. They go to
- 21 work and they work hard and they expect to come out of
- 22 that coal mine alive. They know that there is some
- 23 risk and they hope that that risk and that danger will
- 24 be addressed by people and by entities sometimes that
- 25 they have no control over. They put their faith, and

- 1 they put a lot of confidence in other people and the
- 2 coal company, in their union, in the state and federal
- 3 agencies. And on occasion we've seen good things come
- 4 from these entities.
- I came to the Darby explosion, the
- 6 site and the scene of that disaster. I had been asked
- 7 to represent a family, just as a family representative,
- 8 not an attorney, of a family who had been left behind
- 9 by a miner at the Stillhouse mine in Harlan County,
- 10 Kentucky. So at the Darby disaster these families came
- to me and asked me to help guide them because all of a
- sudden their lives were transformed. They knew not
- 13 what to do, they were left behind. And I worked with
- 14 these families.
- 15 I saw some things develop after this
- 16 tragedy at Darby that no one would want to see. I saw
- 17 children being affected in ways that no child should
- 18 ever have to be, things that they should never have to
- 19 endure. Nervous problems, children pulling their hair
- out in spots because of their nerves, because of what
- 21 they had gone through.
- Now we're here and we could talk
- about that all day. But I'm glad to see, as a retired
- 24 coal miner, as a former Deputy Commissioner of the
- 25 Kentucky Department of Mines and Minerals, as an

- interested party, I'm glad to see that people are 1 2 stepping forth. A lot of people deserve credit for 3 There's elected officials that deserve credit 4 and the lobbyists that pushed these elected officials. 5 At Darby and other places of disaster we have seen the best of MSHA, and in this case the 6 7 best of the Kentucky Department of Mines and Minerals 8 when they went in to rescue Mr. Ledford. I saw Mr. 9 Ledford's burn marks on his chest blistered and 10 infected for months from the rescue device that was 11 laying on his chest after he had lost consciousness. 12 And the brave rescuers put their life on the line to go 13 get him and my hat's off to them. 14 There's a lot of good folks involved 15 in this, and I would just come today to offer 16 encouragement. With any business there's always a 17 concern of cost, we understand that. But in this 18 industry -- we know that this industry is at a time of 19 record profits. We don't want it to be a time of 20 record deaths. 21 And this, because of the efforts of 22 many, may be a step in the direction that makes sure
 - And this, because of the efforts of many, may be a step in the direction that makes sure that no other miner dies because they have no place to go after an explosion or some other catastrophe in the coal mine.

23

24

- I have set many days and many hours 1 2 myselfin a coal mine at a lunch hole, diner hole, 3 where we got to take a lunch when I worked in the coal 4 mine and thought about how I would get out of that coal 5 mine should there be an explosion while I was having 6 lunch; or if I go back and take up my job and there's an explosion or something of that nature, how would I 7 8 get out of this coal mine. 9 But a refuge chamber was never an option for me, and it hasn't been an option for these
- option for me, and it hasn't been an option for these other miners. It wasn't an option for these other men that died, the colleagues and coal workers of Mr.

 Ledford.
- 14 Now, in this rule I see a couple of 15 things, and I haven't studied this in depth, but the 16 idea of constructing a safe chamber after the fact, to 17 me, is not really reasonable. And I don't think that's 18 doable, I don't think that's workable. Because as the 19 gentleman testified earlier, once something has 20 happened like this there is going to be probably chaos. 21 Not in every case but in many cases, people may be 22 injured, sometimes they're very, very fatigued already. 23 And to construct a safe chamber after an explosion, I 24 think there's a better way, better ways to do that and one of the things is prefabbed. 25

Now, the other thing that I noticed 1 2 was some reluctance to apply -- make this applicable to 3 small coal mines. I'm not an engineer, don't pretend 4 to be, I don't know exactly how that would be worked 5 But I would say for the record that a man, a 6 woman in a small coal mine deserves to come home to 7 their family, just the same as a miner in a large mine. 8 I think that needs to be addressed as well. 9 I would say for these brave families 10 and this miner who has come here today, I offer my 11 congratulations to them because it's folks like that 12 that's always going to get changes made. And they --13 these folks and these miners are what it's really all 14 about. It's not about the coal companies, and it's not 15 about MSHA, and it's not about the state, it's not 16 about all of these -- every one is a part, lobbyists 17 and attorneys and all of us that do various things. 18 It's that miner that has to be protected. And they're 19 the ones that depend on others to look out for them. 20 They will go do their job, and 21 they'll do that job in some harsh conditions, but they 22 expect that someone is going to take care of them. 23 they expect that should their lives be put in danger, 24 should they be cut off from the world, that somebody will come and get them. And in this case maybe they 25

- 1 have an opportunity to stay alive until someone does.
- 2 Thank you very much.
- 3 MS. SILVEY: Thank you very much.
- 4 And you know, for all that you have done to assist the
- families, we appreciate that too. One of the things I
- 6 do want to say is that this rule, so that everybody
- 7 knows, is applicable to all underground coal mines. I
- 8 think I said in my opening statement. So that
- 9 everybody knows that it will apply to all underground
- 10 coal mines. I don't have any other comments.
- 11 Our next speaker will be Wes
- 12 Addington, Appal achi an Citizens Law Center.
- MR. ADDINGTON: Good morning.
- MS. SILVEY: Good morning.
- MR. ADDINGTON: My name is Wes
- 16 Addington. I'm an attorney at the Appalachian Citizens
- 17 Law Center in Whitesburg, Kentucky. The law center
- handles issues related to coal mining, including issues
- of miner's health and safety. I hope to submit written
- comments on this rule before the deadline.
- 21 In light of that, I would like to
- 22 make just a few comments on the rule here today. I
- generally appliand the efforts that MSHA has undertaken
- so far in working on this rule for refuge alternatives,
- 25 however, I do have some concerns.

1	Primarily, what Kenny had mentioned
2	earlier, is this third option of refuge alternatives
3	which is having materials prepositioned to be
4	constructed within ten minutes. I'm a little concerned
5	that materials prepositioned to be constructed is just
6	a euphemism for barricade. It sounds that way.
7	And clearly in the NIOSH report
8	that's referenced frequently in this proposed rule
9	they clearly indicate that there's no evidence to
0	support the practice of barricading in monitored mining
1	operations, and barricading is not considered to be a
2	viable refuge alternative. So I'm concerned about the
3	reasonableness of that third option, whether it's
4	feasible, whether it's viable.
5	I'm also unclear, looking through the
6	rule, as to the terminology used in various sections of
7	the rule and consistencies there. For example, you
8	know, in looking at 7.505(b)(1) which talks about
9	activating without tools within ten minutes versus the
20	75.1507(c) which talks about materials prepositioned to
21	be constructed in a secure space within ten minutes. I
22	notice in that section that there's no mention of
23	tools.
24	In this rule is it are the is
25	the third alternative is there any consideration that

- 1 there would be tools required to construct those
- 2 materials that are prepositioned?
- 3 MR. SHERER: Yes, there could be
- 4 tools involved.
- 5 MR. ADDINGTON: And that brings up
- 6 the inconsistency in having a prefabricated unit that
- 7 requires no tools versus having materials to be
- 8 constructed that may require tools. You know,
- 9 obviously miners in mines using different alternatives
- would be faced with, you know, totally different
- 11 challenges in the event of a disaster and an explosion
- which they would need a refuge alternative.
- 13 I'm also concerned throughout the
- rule and the comments with the discussion of timing, in
- terms of timing to get to a refuge alternative, in
- 16 terms of timing to construct, in terms of timing to
- 17 escape. In the comments there's talk of -- it seems to
- 18 be based on sixty minutes based on the lifespan of the
- 19 SCSR.
- 20 And then in the comments there's talk
- of thirty minutes of timing which the miners would seek
- to escape, and if that wasn't possible then they would
- have thirty minutes remaining to go to the refuge
- 24 chamber, ten minutes to construct or to activate and
- then twenty minutes for it to be fully functional.

1	You know, and then there's other
2	areas of the rule in which there's reference to being
3	within thirty minutes of a refuge chamber in an
4	outlying area. And I'm just wondering if the same time
5	periods aren't being applied consistently. For
6	example, if you are thirty minutes away from the refuge
7	chamber, depending on where it is in relation to your
8	position, and then you factor in thirty minutes for
9	escape, well, there's your hour.
10	So I would like to see a little more
11	explanation in terms of, you know, specifically how
12	it's designed, how these emergency escape plans are
13	designed in terms of timing in which you expect miners
14	to be what to be happening in all of these examples.
15	And obviously distance is a major
16	factor. As Paul testified, he feels like anything more
17	than a thousand feet would be very difficult to reach.
18	And I notice the West Virginia rule is less than a
19	thousand feet. I notice this rule is between 1,000 and
20	2,000 feet and you are asking for comments of
21	possibilities of up to 4,000 feet in distance from the
22	working face.
23	You know, and I guess that's
24	contingent upon there being extra locations of SCSRs
25	between the working face and the refuge chamber that

- 1 may be 4,000 feet away. I'm concerned that by
- 2 factoring in locations of SRSCs and locating refuge
- 3 chambers that you potentially would be creating
- 4 exceptions that swallows the rule, or the purpose of
- 5 having refuge chambers in the first place. If you
- 6 continually expect miners to be able to reach
- 7 additional locations of SCSR as their -- on their way
- 8 to a refuge chamber.
- 9 Finally, I'm a little curious in 10 terms of the research performed on evaluation of
- 11 accident and injury data in the comments to the rule in
- 12 which the MSHA estimates that a total of 221 lives
- 13 could have been saved over the 107-year period for
- purposes of estimating the benefits of this proposal.
- 15 I note in the comments, in four of
- 16 the disasters that you referenced, just adding up the
- 17 number of miners who survived the initial explosion or
- the initial fire, they're getting to the lower number
- of lives that could have been saved under this
- 20 estimate. So I guess I'm curious how that data was
- 21 evaluated all of the way back to 1900 based on hordes
- of explosions in the early part of the century and
- 23 fires in which, you know, scores and scores of miners
- 24 died. Does anyone know exactly how that data was
- 25 reviewed or evaluated?

1	MS. SILVEY: I think we took I
2	thought that we specifically said that from a certain
3	year's period I'm not sure exactly what the year
4	was, we took we took a certain number of the
5	accidents that we referenced in there for that period
6	of time and we looked at the reports and the report
7	showed the number of miners that had barricaded
8	themselves. So we knew if they survived the initial
9	explosion and that's how we came up with the that's
0	how we came up with the miners the estimate of the
1	miners that survived. That's basically all we did is
2	just looked at the accident reports.
3	MR. ADDINGTON: Okay. So if I
4	understand you correctly, you looked at a select number
15	of specific disasters; is that correct?
6	MS. SILVEY: Yes. We looked at all
17	of them, I think. I think we looked at all of them
8	minus a certain number of them.
9	MR. FORD: Of the ones we could
20	identify, if we could tell that they barricaded, we
21	took those people that barricaded from that accident.
22	MR. ADDINGTON: Okay. I guess I
23	would like to see in the final rule, hopefully, that
24	more fully explained and reflected. Because it seems
25	to me. as you read this in a straight-forward manner.

- 1 it seems as though you have reviewed basically every
- 2 disaster that's occurred since 1900, and based on that
- 3 the assumption is a total of 221 lives could have been
- 4 saved and I think that's --
- 5 MS. SILVEY: I think we reviewed the
- ones where we had accident reports that we could
- 7 review. And some of them didn't have -- I think if you
- 8 Look in the Preliminary Regulatory Economic Analysis L
- 9 think that it goes into pretty much detail, doesn't it,
- 10 Ron?
- 11 MR. FORD: Yes, and the report that
- we drew it from is listed in the very end under
- 13 references.
- 14 MS. SILVEY: There's a specific
- report that discusses all of the accidents.
- MR. ADDINGTON: Okay. I guess I
- 17 still would like to see, or would hope to see in the
- final rule, in the summary at least, that more fully
- 19 explained. Because it just makes it appear as though
- 20 MSHA has reviewed, where they have good data, all of
- 21 the historical disasters.
- 22 MS. SILVEY: As Ron refreshed my
- 23 memory the report is in there, there's a reference in
- 24 the PREA or the Preliminary Regulatory Economic
- 25 Analysis. And that cites the report and when you read

1	the report the report goes into pretty much detail.
2	MR. ADDINGTON: Right, I understand
3	that.
4	MS. SILVEY: So you can look
5	MR. ADDINGTON: I guess I'm just
6	thinking in terms of what's actually in this proposed
7	rule that jumps out at me and is actually more easily
8	accessible. That just sort of reflects, you know, what
9	was reviewed.
10	The more important thing that I
11	wanted to raise that I saw in the evaluation of
12	accident and injury data is the estimate of a low of 25
13	percent and a high of 75 percent that is estimated of
14	lives that could be saved under this new rule.
15	Those are very hopeful numbers to me
16	even at the low end of 25 percent, a one in four
17	survivor rate is really wonderful. So I think it's
18	worth proceeding. And I don't think cost is a factor
19	when you are talking about these types of percentages
20	of survival going forward. If you take a recent
21	disaster, Sago, Darby if you apply those percentages to
22	those disasters, there's no amount of money that would
23	be worth having those miners back.
24	And like I said, I would hope to
25	provide additional written comments before the

1 deadl i ne. Thank you. 2 MS. SILVEY: Okay. Well, we look 3 forward to getting your written comments. Just a 4 couple of things I wanted to comment on, particularly 5 where you have the areas of concern. If you have --6 and I know you have heard me say this before, and you 7 have submitted your written comments. 8 So if you have alternative 9 suggestions, specific -- in the areas where you have 10 specific concerns if you would, please, get them to us 11 with your specific suggestions, we'd appreciate that. 12 When you talked about the location 13 between -- an inby location between a thousand and 14 2,000 feet, and just so everybody knows this, we know 15 that West Virginia is within a thousand feet. We heard 16 from West Virginia in Charleston so if anybody wants to 17 go on the website and look at the transcript, please 18 feel free to do that. 19 But, so in addition we have West 20 Virginia and, of course, as some of you may know 21 Illinois has a law and now Pennsylvania. Well, and we 22 also had, as you mentioned, Mr. Addington, we had the

And the

NIOSH report so, you know -- so as you know, when we

come forward with this final rule we have all of these

NIOSH report as some other people mentioned.

23

24

25

- 1 various locations that we're going to have to reconcile
- 2 and put in the final rule. Because in the proposed
- 3 rule we obviously had to take into consideration the
- 4 NIOSH report.
- 5 So for everybody I'm saying, if you
- 6 have suggestions on location and you have specifics,
- 7 please get those to us. But recognizing that where we
- 8 are on that we have some different -- sort of some
- 9 different things that we have to reconcile as we move
- 10 to the final rule.
- 11 On the issue of the 4,000 feet, you
- were saying you were concerned that the exception
- becomes the rule. I just want to iterate to people
- 14 that that was a suggested alternative that we raised in
- the preamble, but it was only in the event that a mine
- had a connection to a bore hole, that there was a
- 17 connection to a bore hole that could obviously
- immediately deliver fresh air to the underground area.
- 19 So that's -- that alternative was limited in that
- si tuati on.
- I don't have any more comments. Does
- anybody have any more comments?
- MR. ADDINGTON: Then briefly just to
- follow-up on the NIOSH report, and I was talking about
- timing and I neglected to mention this. I noticed in

- their testing, and I know this is ongoing and is 1 2 developing, that a few of their refuge chambers took 3 more than thirty minutes to become operational. 4 concern is that in terms of the sixty-minute window 5 that this rule seems to operate around that there be 6 enough time allotted to contingencies, to problems with 7 activation, you know, rather than assuming a best-case 8 scenario that it's going to operate as hoped. 9 MS. SI LVEY: Okay. Thank you. 10 MR. ADDI NGTON: Thanks. 11 SI LVEY: And last of this group 12 we have Tony Oppegard who is an attorney in Lexington, 13 Kentucky. Tony. 14 MR. OPPEGARD: Thanks, Pat. If it's 15 okay with you, I'm going to ask Paul Ledford to come 16 back up. And if it's okay with you at some point I 17 would like to ask him a couple of questions about the Darby accident in terms of this issue, would miners 18 19 have the wherewithal to be able to construct some type of refuge chamber. 20
- 21 MS. SILVEY: That's fine.
- MR. OPPEGARD: My name is Tony
- 23 Oppegard. I'm an attorney in Lexington representing
- miners and their families. It's O-P-P-E-G-A-R-D.
- There's a couple of widows of the

- 1 Kentucky Darby disaster who couldn't be here today who
- 2 intended on being here, Mary Middleton and Priscilla
- 3 Petra. Mary's husband, Roy, died of carbon monoxide
- 4 poisoning and Priscilla's husband, Bill, died of carbon
- 5 monoxide poisoning along with Paris Thomas after the
- 6 di saster.
- 7 And Kenny Johnson and I were both
- 8 representing the families. And I think one of the
- 9 important things today is to try to put a human face on
- this problem and the folks that you-all are trying to
- 11 help. And I do appreciate the efforts of MSHA and each
- of you individually in promulgating this rule. And I
- 13 know there's a lot of different considerations and
- 14 factors and agendas that people have, and you are
- 15 trying to do the best you can.
- So what I want to do is just go
- 17 through some of the parts of the rule and make some
- 18 comments. I'm not a scientist or an engineer either,
- and I must say a lot of this is very technical when you
- 20 read it. And it's things that I don't readily
- 21 understand but I appreciate the effort that has gone
- into it.
- 23 In terms of putting a human face on
- 24 it, right after the disaster Kenny and I were meeting
- with the families of the Kentucky Darby miners just

- 1 about every night when MSHA was going through the
- 2 interviews. And that's been now a little over two
- 3 years ago. And the -- you know, it's a very somber
- 4 experience. You know, you are meeting with people who
- 5 are just devastated with grief at having lost their
- 6 husbands or fathers, you know, brothers, whatever the
- 7 case may be, and trying to figure out how they're going
- 8 to go on.
- 9 And even now, two years later,
- something that Kenny referred to, you see how the
- 11 families have been affected, how it's really turned
- people's lives upside down, and the grief that they
- 13 still feel and the impact of losing not only the
- 14 breadwinner in the family but, you know, the father
- 15 figure, and particularly the impact it has had on
- 16 children. And it's really very difficult. And
- anything that you could do to prevent other families
- from going through this tragedy will be well worth your
- 19 effort.
- 20 I also went into the Kentucky Darby
- 21 mine as a representative of miners for a couple of days
- 22 during the -- after the rescue effort but during the
- investigation and saw the devastation underground and
- it's -- you know, I mean I know you-all have seen the
- 25 photos of it and you have read the report, but it's

1 really indescribable when you are underground and see 2 that devastation.

And I asked the person from the company who was assigned to be with me to take me around and show me where each of the miners -- where their bodies were found. And that's a -- again, it's a very somber experience. And you are trying to reconstruct in your mind how this certain miner reached this point and what he felt as he was trying to make his way out of that mine in the chaos where, as Paul would say, you couldn't see a foot in front of your face.

A couple of general comments I had about the rule before I go into some specific sections. In reading through your preamble, one of the real concerns I have is the part in 75, I guess it's 1506, where it says -- in your comments you say the proposed rule would not require refuge alternatives for miners who can reach a surface escape facility within thirty minutes. In talking with and representing Kentucky Darby families, and in representing Paul, I know that all of them believe that had there been a refuge chamber in the Darby mine that Paris and Roy and Bill all would have survived. They would have been able to get to that refuge chamber. They would have been

- 1 rescued probably sometime that night. And Paul, you
- 2 know, I think is very brave to come up and testify.
- 3 It's not an easy thing for him to do to speak about the
- 4 di saster.
- 5 MS. SILVEY: I agree.
- 6 MR. OPPEGARD: And I have greet
- 7 admiration for him.
- 8 MS. SILVEY: I agree.
- 9 MR. OPPEGARD: But I must tell you
- 10 also that Paul is suffering from post-traumatic stress
- 11 disorder from having gone through the trauma of this
- explosion and trying to make his way out of the mine
- and losing consciousness, ultimately regaining
- 14 consciousness and crawling a little further and then
- being rescued. But he also has a severe breathing
- impairment from the inhalation of carbon monoxide.
- 17 And the thing that strikes me about
- this, I can ask Paul, and I think I know the answer,
- 19 how long would it have taken you under, you know, not
- after an explosion, just under regular conditions to
- 21 walk out of the mine?
- MR. LEDFORD: Twenty minutes.
- MR. OPPEGARD: So the mine wasn't
- 24 that far underground. And I guess one question I had,
- when you say it wouldn't require a refuge chamber for

- 1 miners who can reach a surface escape facility, does
- 2 that mean within thirty minutes under emergency
- 3 conditions, or under your everyday travel conditions?
- 4 Because I'm not sure.
- 5 MR. SHERER: That's explained in the
- 6 emergency evacuation rule that we referenced, and
- 7 that's thirty minutes under normal conditions.
- 8 MR. OPPEGARD: See, that's my problem
- 9 then. Because in Kentucky Darby they probably would
- 10 not have been required to have a refuge chamber under
- 11 the rule as it is now written. And I really think you
- need to change that thirty minutes to make it a lot
- shorter than that. I was in the Darby mine, it was not
- 14 that far to get outside. I mean we could ride out
- in -- I'm assuming it was less than ten minutes to get
- outside and you probably could have walked out, as Paul
- was saying, in twenty or twenty-five minutes.
- But nonetheless, when you look at the
- 19 MSHA report, Paul referenced that one of the miners, I
- think it was Bill Petra, he only traveled 1,048 feet
- 21 before he died. Roy Middleton traveled 1,243 feet
- 22 before he died. And Paris Thomas traveled 1,468 feet
- and he died. And I guess to me there's an
- inconsistency if you say you don't have to have a
- 25 refuge chamber if you can walk out in thirty minutes

- 1 but then you realize that all three of these miners who
- 2 under normal conditions could have walked out in less
- 3 than thirty minutes did not survive.
- 4 So I really think that number needs
- 5 to be cut probably down to ten minutes or something
- 6 like that where you are going to require refuge
- 7 chambers in most cases. Paul traveled 1,595 feet. He
- 8 traveled farther than anybody else, and he would not
- 9 have made it out had it not been for the mine rescue
- teams coming in.
- 11 One other concern I have, again, is
- what other people have talked about, the refuge
- 13 chambers having to be located between a thousand and
- 14 2,000 feet from the face. And again, I understand some
- of the concerns about if you are too close to the face
- 16 a refuge chamber might be damaged by an explosion, I
- 17 understand that. Not all refuge chambers though are
- going to be used just after explosions. I mean you
- 19 might have a mine fire, you could have an inundation or
- something else where miners need to get to a refuge
- chamber.
- 22 So I don't think that the concern
- about explosions is going to apply to all refuge
- 24 chambers. And my gut reaction is it probably -- again,
- looking at the distances that the miners traveled, now,

- 1 they -- you know, they didn't -- they all made it
- 2 between a thousand and 2,000 feet and they all
- 3 peri shed.
- 4 MS. SILVEY: Right.
- 5 MR. OPPEGARD: But what if an
- 6 operator decides to make it 1,800 feet away, none of
- 7 those miners would have even made it to the refuge
- 8 chamber. And I tend to think that that distance needs
- 9 to be reduced. I've not read the West Virginia rule
- 10 but I've see where they require them within one
- 11 thousand feet and I tend to think that that's probably
- 12 a better i dea.
- Mr. Ledford, speaking from
- 14 experience, when he said he thinks they need to be
- 15 closer. But again, I don't think it would have helped
- 16 the Kentucky Darby miners had there been a refuge
- 17 chamber that met the requirement of this rule but was
- 18 say 1,500 or 2,000 feet away.
- My third general comment, before
- going to some specifics, and I think Kenny has
- 21 addressed this and Wes Addington has addressed it, is
- Section 75.1507, again, third time. With all due
- respect to your panel, and again, I know you have
- worked hard, I really think that that needs to be
- 25 scrapped, this thing about building a refuge chamber

- 1 underground or building -- again, I think it's
- 2 barricading too, whatever it is, it doesn't make any
- 3 sense to me. That you are going to expect miners in a
- 4 panic situation who can't even see, who are maybe
- 5 hyperventilating, disoriented -- how do you expect them
- 6 to take tools and build something.
- 7 What I think you are doing here, I
- 8 can almost guarantee you if that rule goes through,
- 9 that part of the rule, you are going to have a lot of
- 10 small operators in Eastern Kentucky who aren't even
- going to think about refuge chambers, that's what
- they're going to do. They're going to latch on to
- 13 that.
- And can you imagine how it's going to
- 15 Look if we have another Kentucky Darby disaster and
- 16 everybody dies because there's not a refuge chamber and
- 17 they have this alternative provision where they could
- build something and they weren't oriented enough to
- 19 build it.
- 20 I also don't understand, you say
- 21 build it in ten minutes. You may not have ten minutes'
- time to build something if you are being overcome by
- carbon monoxide. So again, this is not rehearsed, Paul
- 24 has been through this experience. I mean it would be
- 25 good for you to talk to him.

1	Paul, do you think that you could
2	have built some type of barricade or refuge chamber
3	underground the day of the accident?
4	MR. LEDFORD: No. You can't hardly
5	see your hand in front of your face. If you did build
6	it there, you have all of that smoke in there behind
7	that with you anyway you'd be in there with all
8	of that smoke breathing anyway after you did barricade
9	yoursel f.
10	You-all seen in the report that
11	people died going back to the explosion and
12	barricade and all of them died, that you-all was
13	talking about that was barricaded. So it would be the
14	same thing, they can be barricading theirself and they
15	are just going to lay there and die too because the
16	rescuers can't get to them in time.
17	MR. OPPEGARD: In Eastern Kentucky a
18	lot of families depend on mining for a living, I'll use
19	Paul's family as an example. His mom now has seen one
20	son killed in a mining accident, another permanently
21	disabled in a roof fall. This was before the Kentucky
22	Darby accident. And now Paul permanently disabled and,
23	you know, barely surviving an accident. And Paul has
24	worked for a bunch of different coal operators, small
25	onorators in Harlan County so again this is not

1	rehearsed.
2	But let me just ask you, Paul, do you
3	think that in the mines you worked at in Harlan County,
4	which are small operations, if an operator had a choice
5	between paying for a refuge chamber or having the
6	materials available to construct something in case of
7	an emergency, which do you think they're going to use?
8	MR. LEDFORD: Buy an \$80 roll-up
9	curtain and two timbers instead of a \$65,000 refuge
10	chamber. It's common sense. They claim they're broke
11	all the time, barely making it. They say they're not
12	making hardly any profit running the coal mines.
13	They're going to take the option of getting the curtain
14	and the two or three timbers set up, and there you go,
15	barricade yourself and be sitting there waiting to die
16	is what you would be doing.
17	MR. OPPEGARD: We have some good coal
18	operators and we have some outlaws and the outlaws are
19	going to do the cheapest thing they can. And maybe if
20	you have some good coal operators they're going to
21	invest in what's safest for the men, but I don't think
22	you can count on that. And that's why I think this
23	part of the rule just needs to be done away with. I
2/	don't think it should be an ontion

25

Let me ask Paul another question ${\sf I}$

- 1 guess before I turn to some specific regulations.
- Paul, just generally, there was you and Bill and Paris and Roy all trying to escape from the mine after the Darby explosion, can you talk about whether you were ever disoriented or whether you were able to keep your wits about you or just how you felt

7 when you were trying to escape.

MR. LEDFORD: First I kept my mind to me, I knew where I was going and what I was going to do. And then after we was separated I just kept going and going and I kept getting tireder and tireder. And then I realized, it just hit me that I was going to die in there that night. And I asked the Lord to help me so I could raise my family -- which is hard to -- it's hard to go on everyday, to try to keep going. And I obviously realized I was going to die that night. I tried to stand up -- before I laid down I asked him to help me so I could raise my family.

MR. OPPEGARD: And you know, I know you-all know this, but all of those miners had SCSRs too. So they already had some assistance to try to get out of the mine, and it still wasn't enough. Let me go through a few -- I don't want to just concentrate on the negative things or the problems we have with the rule but be supportive of some things that I think are

1 very good. 2 And I know you-all took a lot of 3 criticism in West Virginia for the rule. I was not 4 sure after reading it, and then I heard some reference 5 to it today about if you already have a refuge chamber 6 in your mine you can keep what you have now, is it 7 grandfathered in for a certain period of time? 8 MS. SI LVEY: It's grandfathered if 9 it's approved by the state, and the only state now that 10 has approved refuge chambers is West Virginia. 11 it's approved by the state or approved by MSHA in the 12 Emergency Response Plan. 13 And now, you might ask me why would 14 it be approved by MSHA, some of MSHA is allowing refuge 15 style plans, and I don't know how many have refuge 16 alternatives of refuge chambers to satisfy the 17 breathable air requirement. You-all know about the 18 breathable air requirement that's in place now. 19 MR. OPPEGARD: If a refuge chamber, for instance, in West Virginia is grandfathered in, how 20 21 long is that good for? 22 It will be until it's MS. SILVEY: 23 replaced, or for the refuge alternative -- now, mind

So

you, West Virginia only has the prefabricated type.

you don't have to -- in West Virginia, not the other

24

25

1 two alternatives that we included. 2 So they would be grandfathered until replaced, or for a maximum of ten years for the 3 4 self-contained refuge alternative, and then for the 5 components until replaced or a maximum of five years. 6 MR. OPPEGARD: I think you need to 7 consider cutting down that grandfathering time from ten 8 years to a lower amount because I sort of feel the same 9 way Kenny Johnson does when he is saying that a miner 10 in a small mine deserves the same protection as the 11 miner in a large mine. I think a miner in West 12 Virginia deserves the same protections as any miner in 13 the United States. If you finalize a rule that requires more space, for instance, or a longer supply 14 15 of food and water, I mean I support the 96 hour rule as 16 opposed to the 48 hour rule. 17 And I understand the whole theory behind grandfathering, and they've already invested the 18 19 money and all of that, I understand that. But I think 20 you ought to cut down that grandfather period. 21 I think it would be a big mistake if we have a disaster

and you can't get to them for six days and they have

in a West Virginia mine and they already have a

prefabbed refuge chamber and guys are in there and

there's 48 hours of breathable air and food and water

22

23

24

25

- 1 died. I mean that would look pretty bad. And I don't
- 2 see the point of saying just because we've built
- 3 something that we think is good enough that it is good
- 4 enough if the federal agency has a stronger
- 5 requirement.
- 6 And that's no different than any
- 7 other standard. If MSHA would pass a regulation
- 8 tomorrow that you have to have a bolting pattern every
- 9 three feet instead of every four feet, every state
- 10 would have to do that. And I don't see where it's any
- skin off the nose of the West Virginia inspectors to
- 12 have a more stringent requirement. If anything it
- should make their job easier. If you have to bolt
- 14 every three feet and in West Virginia you only have to
- do it every four feet, well, they don't have to worry
- 16 about someone violating the roof control plan because
- if you have to bolt every three feet it's going to
- 18 easily pass West Virginia.
- 19 So I think you need to err on the
- side of the coal miners and not worry about what West
- 21 Virginia officials feel which is really just, in my
- view they were carrying the water for the coal
- operators in West Virginia. I think the coal operators
- should have come and talked for themselves.
- 25 Going through some specific

1 requirements, the -- again, the 96 hour period, and I'm 2 speaking on behalf of the Kentucky Darby families now 3 that I'm representing. We support that requirement. 4 The requirement that a telephone or 5 an equivalent two-way facility that can be used from 6 inside, I think that absolutely should be in there. 7 That's an excellent requirement as well as the two-way 8 wireless system. This is in 7.504. 9 And 7.505, the requirement that the 10 airlock has to be configured to accommodate a stretcher 11 without compromising its function, I think that's 12 absolutely necessary. I think you realize, and most 13 people realize, that because you make it to a refuge 14 chamber doesn't mean that you have made it to a refuge 15 chamber without injury. You might have severely 16 injured miners who finally make their way there. 17 I think the requirement that there 18 has to be a measurement of outside gas concentrations 19 without exiting the structure or allowing entry of the 20 outside atmosphere, that's absolutely essential. 21 Again, these are things that I don't understand exactly 22 how you do it but I appreciate seeing it in the rule. 23 I'll mirror the same comments that 24 Wes made about trained persons can fully activate the 25 structure without the use of tools within ten minutes.

- 1 When I first read this I thought, well, this isn't as
- 2 bad as I thought it was. I thought they were saying
- 3 that you could just build something and that's not
- 4 really what it's saying. It's saying that you have to
- 5 be able to activate it in ten minutes. And then I saw,
- 6 oh, indeed, there is a process in there for building
- 7 something. I think they sort of conflict.
- 8 Again, under Section 7.505, the
- 9 requirement that the chamber, you be able to conduct a
- 10 pre-shift exam without entering the structure, I think
- is essential, again, that you have to pre-shift these.
- 7. 506, only uncontaminated breathable
- air is allowed to be supplied to the refuge
- 14 alternative. I think that's absolutely essential. And
- that the breathable air has to sustain each person for
- 16 96 hours is important. And we support those. I like
- 17 the part of your 7.506 where you are requiring fans or
- compressors to be equipped with carbon monoxide
- 19 detectors located at the surface, I think that's a good
- 20 provi si on.
- The -- in 7.507, Subsection A, each
- 22 refuge shall have an air monitoring component that
- provides persons inside with the ability to determine
- the concentrations of carbon dioxide, carbon monoxide,
- et cetera, inside and outside. I think that is very

- good. You need to keep that for sure. As well as the Section 7.508(a)(1) where you are talking about purging or other effective methods being provided for the airlock to dilute the carbon monoxide concentration.
- 5 think that certainly needs to be retained.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Going to Part 75, the mandatory safety standards, 75.360, the pre-shift exam at fixed intervals, Subsection D, the person conducting the pre-shift exam shall check the refuge alternative for damage, the integrity of the tamper-evident seal, and the mechanisms required to activate the refuge alternative, and the ready availability of compressed oxygen and air. I think that's essential to your rule and I would want to compare that to what all of you know has happened with SCSRs where when these checks are made, frequently we have found SCSRs that are no longer in working condition. And we certainly don't want to require refuge chambers to be built and then have something wrong with them when you go to use them. So I think that provision for the pre-shift at fixed intervals needs to be kept.

75.1505, Subsection B requiring that all maps shall be kept up-to-date and any changes, et cetera, et cetera, including the refuge alternatives must be shown on the map at the end of the shift in

- 1 which the change is made. I think that's a good
- 2 requirement and I think that's something that MSHA
- 3 inspectors need to be aware of. If I'm not mistaken in
- 4 Kentucky Darby the escapeways were not properly marked
- on the maps. And you know, one of the problems we
- 6 have, particularly in Eastern Kentucky is the failure
- 7 to really do quality training, for instance, on
- 8 escapeways.
- 9 I sat in on those Kentucky Darby
- 10 interviews and they were all over the board when they
- 11 asked the miners, tell us what a green symbol is in an
- 12 escapeway, or blue or red, or how were your primary
- 13 escapeways and secondary escapeways marked. And people
- 14 just didn't know. Some of them might have known but if
- 15 you took all of the answers, they were certainly not
- 16 consistent. They had not been adequately trained on
- 17 those escapeways. And the maps were not current. And
- 18 I think miners knowing where these refuge chambers are
- is very important.
- 20 In 75.1506 I've already talked about
- 21 that, where the refuge chambers have to be located.
- 22 And I really think you need to revisit this, that they
- could be located up to 2,000 feet away from the face.
- 24 And I guess one other point I want to make about that
- is I'm not sure if there's an assumption built in here

- 1 that most explosions occur at the face, but that's, for
- instance, Kentucky Darby that's not where the explosion
- 3 occurred. It was nowhere near the face. You know,
- 4 there's other instances too, for instance, if you have
- a fire it's more likely to occur on the belt line,
- 6 somewhere that could be -- you could be a long way away
- 7 from the face and you have a fresh air fire.
- 8 So I don't think that there should be
- 9 an assumption that most disasters originate at the face
- 10 because most of them do not. We support the part of
- 11 the rule in 75.1506 where you are requiring a sign or
- marker clearly indicating refuge posted conspicuously
- 13 at each chamber. I think that's a good idea. I would
- 14 like to see -- well, you say reflective material, l
- guess I would like to have you talk with Mr. Hendren
- and see how theirs are marked and just come up with the
- 17 best thing so that miners are able to see it in, again,
- 18 chaotic and dark and dusty conditions.
- 19 75. 1507 about the prepositioning of
- 20 materials to construct a secure space -- I'm getting a
- 21 little confused, is that the part where you can have
- the secure space or, again, is this for something you
- would build within the ten minutes.
- MS. SILVEY: Which one?
- 25 MR. OPPEGARD: 75.1507(a)(1), you are

- 1 saying Emergency Response Plan shall include the
- 2 following. I guess it is, again, for the
- 3 prepositioning and we've already said we don't support
- 4 that and think that needs to be withdrawn.
- 5 I also have reservations or we have
- 6 reservations about -- I'm trying to give you the right
- 7 number, it's 75.1507(d), Subsection D. If the refuge
- 8 alternative sustains persons for only 48 hours, the ERP
- 9 shall detail advanced arrangements that have been made
- to ensure that persons who cannot be rescued within 48
- 11 hours will receive additional supplies to sustain them.
- 12 And then you talk down in Paragraph 2 about an analysis
- to indicate about the surface terrain, the strata, the
- 14 capabilities of the drill rig and all other factors
- that could effect drilling.
- We're very dubious about that part of
- the rule, again, I would really prefer to see you have
- 18 to have a refuge chamber underground and not opt for --
- 19 give operators an option to opt for something that to
- 20 me is pretty speculative. I mean we've all seen roof
- 21 control plans and other plans get passed around and
- they've been Xeroxed a hundred times from mine to mine.
- 23 Some miners never even get to see them, even if they
- ask to see them, and operators don't even know what's
- in them sometimes. And I see the same thing happening

there, where you are going to say, well, we're going to take a cheaper alternative so we're going to say we can promptly drill into this secure location within 48 hours and, you know, you are going to borrow a plan that some guy in the next county told you about and you are not really on top of the situation.

And again, I don't think we need to

And again, I don't think we need to be in a situation where we have people in a quote, unquote, secure place, that's a permanent location with the capability to drill and they're in there and they're injured. And then when it comes to drilling you have all sorts of problems, you know, you haven't made arrangements with a drilling rig or the strata is -- the drill bits break. I'm just thinking about all of the problems they had at Quecreek drilling down.

And I've been to that site too, it's near my hometown, and it's right near the surface. And there was a road right next to it. I mean it was like the ideal situation to get a drill rig in there and still they had problems. I think it's risky having that in there and, again, I think too many people are going to rely on that and may not be able to follow through when an emergency actually takes place.

In conclusion, I think if we had had refuge chambers at Sago and at Kentucky Darby, we

- 1 probably would have fourteen miners alive today who are
- 2 not. And you know, their families would have been
- 3 spared untold grief. And that's what we're trying to
- 4 do and what you are trying to do.
- 5 And so we appreciate your work on the
- 6 rule and ask you to take our comments into
- 7 consideration and do what's best for coal miners.
- 8 Thanks.
- 9 MS. SILVEY: Thank you, Tony. One of
- 10 the things in my opening statement I said -- I
- 11 mentioned that the approval requirements for the
- 12 communication facility should have been the same as
- they were in Part 75. So I just want to bring that to
- 14 your attention because you commented on 7.504 which was
- 15 the communication one. You said the two-way wireless
- but I just want you to know that the communication,
- 17 that provision should have been the same as it was for
- 18 75.1600 on that. It was a two-way communication
- 19 facility but the wording was supposed to be the same as
- 20 in 75. 1600.
- 21 On the Location of the refuge
- 22 alternative, I want everybody to hear this, and we take
- into consideration what you said about, you know,
- 24 facilitating the location, these alternatives being
- 25 marked, and later we'll talk about that. But just so

you know, and I'm sure some of you do know this, that other proposal that we have out now which we're going to take comment on, have public hearings on in a couple of weeks from now, as a matter of fact, we'll have another hearing here in Lexington. That proposal does have a provision in there to help facilitate the things in the escapeway including the location of the refuge -- some marking for the refuge alternative. There are things in there to better facilitate escape in terms of standardized signals, in terms of the means of egress, how to get out of the escapeway. But also tactile indicators.

And somebody -- I had to ask somebody when we were writing the rule, what do you mean this tactile indicator. And you-all probably know, but I'll be honest, I have to confess, I really didn't. And somebody said, well, you can feel the difference. So anyway, the refuge alternative or the refuge chamber, I should have brought one with me but for the next hearing we'll take one. But it's a spiral-type indicator, wire spiral thing so you can feel and you know that you are approaching the refuge chamber. And there are other things in there that you feel for and you know what that means, you are getting to an impediment in an escapeway. I don't want to turn this

- 1 hearing into that one but that part of it does relate
- 2 to a refuge alternative and it is a provision in there.
- I want to ask you just one thing,
- 4 with respect to the -- with respect to the
- 5 prearrangements that you commented on, the
- 6 prearrangements, and I look forward to your comments
- 7 too, your specific -- hopefully before the record
- 8 closes. If the operator had the prearrangements
- 9 already made for connecting up to a bore hole, I mean
- 10 you know, everything prearranged, what's your feeling
- on that for the connection to a bore hole?
- 12 And now I mean everything arranged,
- not even having to go out and get the drill but have
- the arrangements for everything, the contract in place,
- 15 et cetera, et cetera.
- MR. OPPEGARD: This would be for the
- secure place that's permanent; right? You are talking
- about the bore hole that would be drilled?
- MS. SILVEY: The bore hole.
- 20 MR. OPPEGARD: So am I correct
- 21 that --
- 22 MS. SILVEY: The bore hole would be
- providing the breathable air. And supplies, it could
- 24 provide supplies too.
- MR. OPPEGARD: So they would only be

- 1 required to have the 48 hours.
- 2 MS. SILVEY: Right. Or you can let
- 3 me know what you feel about that before --
- 4 MR. OPPEGARD: I think I probably
- 5 need to think that over.
- 6 MS. SILVEY: Sure, think that over
- 7 though. I don't want to put you on the spot. That's
- 8 the only thing I had. Did anybody else have anything?
- 9 MR. SHERER: I've got a couple of
- thi ngs.
- MR. OPPEGARD: Kenny just wanted to
- make another comment if that's okay.
- MR. JOHNSON: I meant to say it
- 14 earlier and I neglected to do that. About the hearing
- 15 itself. I had to start about 5 a.m. this morning.
- 16 Paul the same. We drove from Harlan County back in the
- 17 coal fields. Just the physical location of the hearing
- 18 itself is a problem. I think there would probably be
- more actual coal miners attend this type of hearing if
- it was held in closer proximity to where they live.
- 21 And it would be less burdensome on them financially.
- 22 Speaking for myself as well. Thank you.
- MS. SI LVEY: Okay.
- MR. OPPEGARD: I think we had
- 25 mentioned that several times but it tends to fall on

- 1 deaf ears. And I know you-all have travel restrictions
- 2 too. But you never have many coal miners testify at
- 3 these things. I mean hardly ever. And we had two
- 4 widows who wanted to be here and they had car problems,
- 5 but they probably could have been there if it were in
- 6 Harlan. They could have found a way there but, you
- 7 know, traveling three hours or three and a half hours
- 8 is a whole different matter. And it would really, I
- 9 think, speak well for the agency if you made an effort
- to inconvenience, although, it would inconvenience
- 11 yourselves it would be more amenable or more convenient
- for coal miners and maybe would have some miners
- 13 testify. Because those are the people you need to hear
- 14 from more than anyone. Thank you.
- 15 MS. SILVEY: Thank you. Eric had
- something.
- MR. SHERER: If you don't mind.
- 18 First of all, I really appreciate your input and your
- 19 comments. Mr. Ledford, I especially appreciate your
- input, I think you are in a unique position to help the
- 21 agency protect miners in the future.
- 22 As you know, we've got a new
- regulation that we've put in place a couple of years
- ago as far as emergency evacuation with life lines and
- an additional SCSR. So if that would have been fully

- 1 implemented you would have hopefully had more
- 2 opportunities to get out.
- 3 Can you help us as far as addressing
- 4 where to put these emergency refuge alternatives,
- 5 particularly for outby people, I understand that you
- 6 were working outby, and how to get to them? Can you
- 7 help us out with some comments on that, please?
- 8 MR. LEDFORD: Can I get back with you
- 9 later and think about that a little bit?
- 10 MR. SHERER: Sure.
- MR. LEDFORD: I'm going to think
- 12 about that.
- 13 MS. SILVEY: Anybody else have
- 14 anything? Okay. Well, Tony then on behalf of MSHA I
- 15 want to say that we appreciate, for you and for your
- 16 entire panel -- and to, again, to Ms. Thomas and Ms.
- North, I didn't have to look down, I was trying to
- remember, we appreciate very much your testimony.
- 19 And to Mr. Johnson, your assistance.
- 20 And then finally, Mr. Ledford. So on
- behalf of MSHA, for you and your entire panel, we
- 22 appreciate it, again.
- 23 And we look forward to getting
- 24 comments from you, Mr. Addington, and also from you,
- Tony, before the record closes on August the 18th.

1	Thank you.
2	MR. OPPEGARD: Thanks.
3	MS. SILVEY: At this point I guess
4	people are sort of looking at me. And they are
5	probably saying that they would like to take a break.
6	So you know, we had planned you know what they say,
7	that we'd sort of go on here. But I think I probably
8	should take a ten-minute break.
9	So please, within ten minutes if we
10	could reconvene here. We're just going to take a
11	ten-minute break and come back. I'm asking everybody
12	now, please. Thank you.
13	(A brief break is taken.)
14	MS. SILVEY: We will now reconvene
15	the Mine Safety and Health Administration's Public
16	Hearing on the agency's Proposed Rule on Refuge
17	Alternatives for Underground Coal Mines. Our next
18	speaker will be Stuart McLean, Mine Site Technologies.
19	MR. McLEAN: I provided these records
20	last week but I'd like these ones to be the ones I
21	officially enter.
22	MS. SILVEY: So the record will show
23	that the graphics which Mr. McLean is giving us today
24	will be the ones that are officially a part of the
25	public hearing record on the agency's proposal on

- 1 refuge alternatives. And that's today's date, 5
- 2 August, 2008.
- 3 MR. McLEAN: Firstly, thank you for
- 4 the opportunity to address the panel and yourself, Ms.
- 5 Silvey. As MSHA was soliciting comments on the
- 6 proposed two-way communication facility, Mine Site
- 7 Technologies is attending MSHA's public hearings and
- 8 making comments to inform MSHA that MST are actually
- 9 working on a dedicated and truly wireless solution for
- 10 communications with refuge structures.
- 11 Mine Site Technologies has spent
- twenty years designing and developing mining-specific
- 13 communication systems dedicated for use in underground
- 14 coal environments, and always with an emphasis on
- 15 safety.
- 16 MST has been widely known for their
- 17 through-the-earth communications technology, and recent
- 18 collaboration with Australia's Commonwealth Scientific
- 19 and Industrial Research Organization have developed and
- 20 demonstrated a "Proof of Concept" two-way system highly
- suited to refuge environments.
- 22 MST proposes a communication system
- suited to a refuge and rescue environment consisting of
- 24 a near field bi-directional synchronous
- 25 through-the-earth communications link.

1	This link will provide the miner
2	retreating to a refuge with the ability to send and
3	receive text messages from the surface without any
4	dependence on extensive underground infrastructure such
5	as antennas, cables, or numerous underground nodes or
6	devices that would possibly be destroyed or severely
7	disabled in any major incident underground.
8	The communication link's proprietary
9	protocol and modulation scheme are noise-tolerant,
0	advantageous, self-adjusting, and specifically devised
1	to provide a robust transfer of data considerate of the
2	noise and geophysical strata typically associated with
3	underground coal mining environments.
4	The system consists of a permanently
15	fixed refuge based unit. We call this a slave, whilst
6	there will be a master on the surface. And it is
7	intended to be portable and will be deployed on the
8	surface above the refuge. The master could also be
9	deployed beside the refuge in case there was like a
20	rock fall or mine collapse or hazard.
21	Other than the different requirement
22	the components of the system are primarily what we call
23	a high sensitivity magnetic moment receiver, or a
24	receiving device; simple single turn transmit loop,

which is a coil of wire or just one turn of wire away

25

- 1 from the refuge bay, and within the actual refuge bay
- 2 would be the hardware and electronics and user
- 3 interface for the miner to use.
- 4 I have a few more points on this
- 5 piece of paper but they're probably a bit too technical
- 6 for this forum. And I'd like to invite everyone that
- 7 around lunch time we will set up a system to
- 8 demonstrate the principle operation of the system to
- 9 show you that we have proven concept system, that a
- 10 system exists, and we can explain to people how the
- 11 system is being used and employed.
- 12 And that's pretty much it for me.
- And we'll set up the system at lunch time for people to
- 14 view.
- MS. SILVEY: As we all know, Mr.
- 16 McLean, you testified at one of our prior hearings, I
- believe our hearing in Charleston.
- MR. McLEAN: Yes.
- 19 MS. SILVEY: West Virginia. And I
- just have one comment really, as you said you want this
- to be the graphic that was entered and part of the
- record, but we're talking about a wireless
- 23 communication system and this graphic that -- with your
- 24 key notes here, I would just like to -- I know
- 25 everybody in the room is not looking at it, but --

1	MR. McLEAN: If I can anticipate your
2	question
3	MS. SILVEY: You do, I know you can.
4	If this is marked, and I believe it's different from
5	the one you had the other day because I think it was
6	No. 8 that had this marking on the one the other day, I
7	might be wrong, and this one is Key No. 9 which shows
8	the permanent refuge loop, and you have here, usually
9	buried. So there is a part of it that is a wire loop
10	that's buried?
11	MR. McLEAN: The term wireless
12	communications simply infers there is no wires
13	connecting the transmit aspect of the system with the
14	receive aspect of the system. So I am talking to you
15	without wires as such but I need tools to talk to you.
16	Here we're using ears and a mouth. In these systems we
17	run a transmit antenna which would be the mouth, and a
18	receive antenna which would be the ears for each
19	system.
20	But in the current view of wireless
21	with a lot of underground systems that run
22	comprehensive backbone or infrastructure, the system
23	has no reliance on underground infrastructure that
24	would be a part of providing communications to a miner.
25	So this system is distinctly different but other than

- 1 what's there and around the refuge there is no reliance
- 2 on anything else.
- 3 MS. SILVEY: Except for this buried
- 4 loop, that's what I'm talking about.
- 5 MR. McLEAN: Yes. The loop is the
- 6 trick, the loop provides that magnetic moment to
- 7 transmit our signal up to the surface and vice versa,
- 8 from the surface back down. It's the type of antenna
- 9 that are used with those very special low frequency
- 10 systems.
- 11 MS. SI LVEY: Okay. Thank you.
- MR. McLEAN: Thank you. We'll see
- 13 you at lunch time then. Thank you.
- 14 MS. SILVEY: Our next speaker is Bill
- 15 Caylor with the Kentucky Coal Association. Mr. Caylor.
- MR. CAYLOR: Madam Chairman and
- 17 Member of the Committee, my name is Bill Caylor. It's
- spelled C-A-Y-L-O-R. I'm President of the Kentucky
- 19 Coal Association. The Kentucky Coal Association is the
- trade association comprised of surface and underground
- 21 coal operations in both the Eastern and the Western
- 22 Kentucky coal fields. Our members mine a major portion
- of Kentucky's coal.
- 24 The very first thing I would like to
- say today is express my deepest condolences to the

- 1 families here today who have recently lost loved ones
- and the many in the audience who have lost fathers,
- 3 grandfathers and relatives to accidents, mining
- 4 accidents over the many years. And let's also not
- 5 forget the other workers across America like
- 6 construction, manufacturing, farming, and a host of
- 7 other industries where many more lives have been lost
- 8 compared to coal mining. We need to strive today to
- 9 make all workplaces safer for workers, both coal and
- 10 non-coal.
- 11 Our industry is a very modern high
- tech industry today compared to what it was many years
- ago and we take great pride in workplace safety. We
- 14 have seen dramatic safety changes and improvements over
- the coal miners' workplace over the years. Our
- 16 fatalities have continued to decline and we believe we
- 17 will see a year when we have no fatalities at our
- 18 workplace. And that date cannot come too soon as far
- 19 as I'm concerned. Our workplace injuries are
- 20 comparable to the average Kentucky worker. We have
- fewer injuries than construction, manufacturing,
- agricultural, and a host of other occupations.
- 23 On the handouts, I did this at 4:30
- 24 yesterday, and my secretary put in the wrong chart on
- 25 the left. I had actually done two charts, one that had

- 1 changed statistics. I did a seven-year chart on the
- 2 left, and then I did about a four-year chart on the
- 3 right. And the reason I changed the charts was because
- 4 they added health care and social assistance, and as
- 5 they modified the transportation warehousing so that it
- 6 wasn't apples and oranges. So I did a seven-year
- 7 period comparing injuries in the coal industry to other
- 8 occupations, and then I had to start brand new with the
- 9 latest four-year period comparing coal mining injuries
- 10 to other occupational injuries.
- Now, this one on the left is a little
- bit inaccurate so I want to get the correct one to you
- at a later date. But both of them show that the
- 14 average coal miner in Kentucky, and these figures came
- 15 from US Department of Labor statistics, but the average
- 16 coal miner is as safe as the average worker when he
- goes to work from injuries everyday.
- 18 And that holds true in the last four
- 19 years of statistics, that the average coal miner is as
- safe as the average worker. Safer than construction,
- 21 manufacturing, transportation, agriculture, forestry,
- 22 fishing, and health care and social assistance. So
- 23 we've got to keep in mind that we are doing a good job
- on improving workplace safety in the coal mines. We
- don't want to lose sight of that.

1	But each fatality that we have is one
2	fatality too many and we strive for that day when we'll
3	see zero fatalities. On the next page you will see a
4	chart that we just graphed the number of fatalities
5	over the years. And you can see steady improvement. I
6	think that is due to a a lot of the credit of that
7	is due to the state and federal mine safety agencies as
8	well as the commitment to safety from coal companies.
9	We should never miss an opportunity
10	to inform the news press of our continuing improvement.
11	Last year we had two surface fatalities in Kentucky but
12	we had no underground fatalities. That was the first
13	year, I think it had been since November the 4th,
14	2006, and Johnny Green, you correct me if I'm wrong on
15	that date, but roughly that date, we went a full year
16	before we had an underground surface fatality. And
17	then we just had one a couple of weeks ago. So we went
18	at least one year, it was the first time since 1890, I
19	think 1890 when records were kept that we had zero
20	underground fatalities in Kentucky. And we were very
21	proud of that fact and, again, we are striving for no
22	fatalities because one fatality is one too many and
23	there's no excuse.
24	But when that was printed in the
25	pross in the Herald Leader we saw that not on the

front section, but in the second section of the paper, not on the front page but on the third page, and buried at the very bottom of the third page. And we were very frustrated that such improvements went unnoticed. And I think that's a compliment to the industry, to state safety agencies, and to MSHA for the hard work that

we've done over the years.

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

As an industry we are committed to making refuge alternatives a viable option. will note in our comments, we will express some frustrations over the process and over some of the specifications for the alternatives. Our intent is to improve the function and sustainability of refuge alternatives. Any quick solution to a problem brings inherent logistical problems. These chambers and alternatives are expensive and are a long way from perfection. What we strive for are pragmatic solutions that can improve and involve -- evolve overtime, without unnecessary major financial expenditures. These issues that we highlight do not argue against safety of our miners, rather our comments argue for building a better and sustainable refuge alternative. Please keep this in mind when considering our comments.

The following are some general concerns with the new proposed rule on refuge

alternatives: First I want like to speak to 1 2 grandfatheri ng. Shelters good enough for existing 3 mines really should suffice for future mines when 4 they're moved. The proposed rules in the preamble are 5 confusing and they are in contradiction to the PIB 6 07-03. This PIB was issued and used by operators to 7 comply with the breathable air provisions of the MINER 8 Act. A great deal of money has been expended by coal 9 operators and vendors to provide refuge alternatives 10 much earlier, much earlier than the effective date and 11 now these refuge chambers appear to be required to be 12 discarded after five or ten years. The PIB 07-03 had 13 no guidance or requirements as to the surface area of 14 the volume for miners.

15

16

17

18

19

20

21

22

23

24

25

We question whether the requirement for the ability to signal the surface from the refuge alternatives should be required since this method has not been deployed by MSHA in many years. The concern is having to potentially leave the chamber to make these signals. This could be unduly dangerous or hazardous to the coal miner himself. The proposed rules would require total redesign and reengineering of the current refuge chambers/alternatives. And it is unlikely these units that have been produced or are currently in production could be modified to meet

- proposed requirements. This requirement is viewed as unduly penalizing those operators who, in good faith, have ordered refuge chambers or constructed refuge alternatives in advance to promote safety for their
- 5 workers.

Many coal companies have tried to be proactive and be one of the first to comply with the breathable provisions of the MINER Act, but now they seem to be punished. These companies have dedicated a lot of time and money and effort to constructing safe havens and are confident they would provide a safe shelter for miners for a proper period. They feel that ten years should be a minimum length of time they should be allowed to use their safe havens which have currently been approved in their Emergency Response Plans.

Grandfathered refuge chambers should be allowed to be moved from mine to mine, if needed. MSHA requests comments on the apparent temperature and mitigation of heat stress and heat stroke. Comments should address the generation of heat and the methods for measuring heat stress on persons occupying the refuge alternative. Another miner issue is lighting. Lighting is an issue that was not initially addressed but now is and we require design, engineering, and

- 1 retrofitting. MSHA should consider flexibility on this
- issue. Glow sticks, as an example, are a very
- 3 effective source of lighting which should be considered
- 4 at least. We also believe this proposal requires
- 5 technology that may not be currently available. We
- 6 must be pragmatic in our approach to solving this
- 7 i ssue.
- 8 Now, until we have a history of how
- 9 refuge chambers hold up we question why don't we place
- 10 a ten year replacement. The proposed rules would
- 11 require total redesign and reengineering of the current
- 12 refuge chamber alternatives and it is unlikely that
- those units already produced or currently in production
- 14 could be modified to meet the proposed requirements.
- 15 The proposal requires technology that many believe are
- not currently available.
- 17 In terms of needing additional time
- for comments, MSHA acknowledged it had two years to
- 19 study this issue, and then to propose this rule and to
- 20 expect the industry to evaluate the comment within a
- 21 two-month period. We feel a little additional time is
- warranted for review and comment, and respectfully
- 23 request an extension on the comments period. And I
- 24 know we've got some restrictions from the MINER Act but
- the ability to submit some additional comments with a

1 little extra time, I think would be very helpful for2 everybody.

In addition, the proposed rule has no implementation schedule or effective dates but many provisions that are not currently available and would require extensive design, engineering, production and implementation work, this needs to be addressed.

Now, regarding pre-shifting multiple times daily. The proposed rule requires a pre-shift examination. When in most cases the manufacture itself requires only weekly examinations. The manufacturer's recommendations we feel should be followed. It serves no practical purpose to examine refuge chambers too many times, especially when there are three shifts working each day. This a pragmatic problem. And I want to give you an example of how it can be a pragmatic problem.

There's one system currently in use as a safe haven to provide breathable air that is not hooked up to pressure gauges. The company stores twelve compressed oxygen tanks in their safe haven, and if they had to hook the pressure gauge up to each tank every eight hours, which is every shift, which is the time interval which is required for a pre-shift everyday, it would leak valuable oxygen from the tank

1	that would be needed if an emergency did, in fact,
2	occur and they would have to eventually be replaced.
3	The company doesn't have time
4	doesn't have their tanks hooked up during storage to
5	help prevent leakage, and they truly believe if the
6	tanks were hooked up a leak is more likely to occur.
7	Tanks that are hooked up during the transportation of
8	the safe haven sleds would have a much greater chance
9	to start leaking and, therefore, they believe that it
10	would not be of benefit for their employee's safety to
11	leave them hooked up during storage or transportation.
12	The oxygen tanks that are stored in
13	their safe haven sleds are fully enclosed and protected
14	in metal compartments and, therefore, the company
15	believes that if the tamper-evident seal is in place at
16	a weekly examination of a safe haven it would be
17	sufficient. And an examination after the safe haven
18	sleds are moved would be sufficient to ensure the
19	mechanisms required to activate the refuge alternative
20	and the ready availability of compressed oxygen and air
21	are in good working order.
22	Regarding expectation training, no
23	time frame, no implementation schedule has been
24	expressed. The requirement for expectation training is
25	complex and complicated. It would be difficult to

- 1 subject miners to the heat and humidity that miners
- 2 would be exposed to in the refuge alternative. No
- 3 expectation training is currently required and
- 4 simulators are not developed or available. The
- 5 proposed rules do not address an implementation
- 6 schedule in this area.
- 7 And I would like to make one note at
- 8 this point, where it was mentioned that there was a
- 9 failure of qualified training in east Kentucky, I don't
- 10 think that statement has any basis in fact. The MINER
- 11 Act has improved dramatically the training in smoky
- 12 conditions all over the United States and it is simply
- 13 unfair to try to single out east Kentucky as reportedly
- showing having less training than any other area of the
- 15 United States.
- The need to move refuge chambers from
- 17 section to section, there should be a maximum distance
- 18 for the refuge chamber to be located from the face but
- 19 there should not be a minimum. There should not be a
- prohibition of placing the refuge alternative within
- the line of sight of the bases due to mining plans and
- conditions requiring such placement. There should not
- be a requirement that a refuge alternative cannot be
- 24 placed within 500 feet radially of a belt drive, et
- 25 cetera, because limits imposed by mining plans or

1 mining conditions.

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The provision requiring the Location
of a refuge alternative where mechanized mining
equipment is being installed or removed would require

5 duplication and may effect fewer people than on a

6 normal active section. There may be only four to six

7 or fewer miners in these areas.

And I'd like to make another note at this point, there is available rapidly inflatable seals that inflate in a matter of one or two minutes which seal off areas very, very tightly. They are safe and quick alternatives available. We try to conduct quarterly problem solving meetings down in Hazard, Kentucky where we involve MSHA, the State, and the mining industry. And many times we'll have vendors come in. And we did have a vendor come in, and it's almost like an inflatable life raft, that thing went up immediately and it's a very tight seal. So there is some very pragmatic solutions without having to actually construct, take and try to construct an So there is a lot of very valuable and al ternati ve. very effective alternatives in the marketplace today.

The need to tile refuge chamber

I ocation from section, there should be a -- excuse me,

I just went over that --

There should not be a requirement
that miners be evacuated if the refuge chamber is
removed from service for some reason. The operator
should be able to provide an alternative that would
provide the same level of protection and continue to
operate.

Now I'd like to touch on the capacity of the refuge chamber. The refuge alternative is an emergency life saving product that should not be required to be this spacious. The required 96 hours of oxygen seems to be excessive and we recommend that it be reduced to 48 hours. MSHA has not demonstrated the need for 96 hours in its preamble in the proposed regulation through example, incident, or research.

The use of 48 hours appears to be confirmed as a reasonable value based on Table 4 on Page 22 of the 2007 Foster Miller Phase II Chapter 3 study which was commissioned by NIOSH under the MINER Act. In this report, NIOSH examined a total of twelve past mining disasters where refuge stations would have had a positive impact on saving lives. Table 4 of the study indicates in all but one of the twelve cases rescuers would have made contact with trapped miners within 48 hours. We feel this indicates a substantial safety factor compared to the proposed present 96 hours

and that as time increases so does the complexity of sustaining trapped miners.

There have been many enhancements to mine emergency programs and rescue capabilities over the past two years. There has been a substantial increase in the number of mine rescue teams since 2006 and the response time has been cut in half. There has been a substantial increase in the number of SCSRs and distribution of the SCSRs along escapeways. Additional life lines, wireless communications, which are still proving to be somewhat problematic, and individual mine-tracking devices have been installed.

Substantial improvements in training allows miners to better understand their escape options, and there are many other improvements which collectively will reduce the miners' need to barricade as well as reduce rescue response time.

The proposed requirement of 15 square feet and a minimum of 60 cubic feet of usable volume per person is based more on comfort rather than providing life-sustaining atmosphere to trapped miners, and if implemented as currently written will unnecessarily de-rate the occupancy and in some cases preclude the use of these devices, especially in thinner seams.

1	The other issue, miner issue, is
2	lighting. This issue was not initially addressed but
3	is now and would require design, engineering, and
4	retrofitting of existing refuge chambers.
5	I'd like to touch briefly on issues
6	that may arise on tracking and communication devices.
7	Communication devices are required in the refuge
8	alternative and MSHA seeks comments on this proposal
9	but there has not been a resolution of the wireless
10	communication required in the open portions of the
11	mines. We need to keep that in mind at this point.
12	We were pleased to see that the
13	proposed rule purports to grandfather state-approved
14	units, and we feel it is imperative that the final rule
15	clearly and unconditionally accepts current
16	state-approved units as meeting all requirements of
17	MSHA's rule on refuge alternatives, especially the
18	square footage and the volume requirements found in the
19	proposed rule. And that such grandfathering extends
20	for the life of the units or for a ten-year maximum
21	period at the minimum. Many states do not approve
22	refuge chambers and I think that includes Kentucky.
23	The proposed rule is not clear on this point as it
24	needs to be, and consequently widespread confusion
25	reigns within the industry as to the agency's intent on

- 1 this issue.
- The question is very simple, will
- 3 breathable air solutions that have been approved in
- 4 mine-specific emergency action plans be acceptable?
- 5 Many of the chambers and alternatives have been
- 6 approved by MSHA in various states.
- 7 In closing I'd like to make three
- 8 points. Number one, the state mine rescue team concept
- 9 is very important. I feel like Kentucky has the best
- 10 state mine rescue teams or the best state rescue teams
- 11 in the nation. We're very proud of what Kentucky has
- done and we would ensure that these teams remain
- available. I think they're critical for mine rescue.
- 14 These are the guys that have the guts to go in, just
- 15 like firemen, into dangerous situations and rescue
- people and many, many times they do not show concern
- 17 for their own safety like firemen. But they go after
- people and try to rescue people and I'm very proud of
- 19 our state run rescue team.
- The second point I'd like to mention
- 21 today is the need to focus on behavior modification.
- truly believe in my heart if we're going to take safety
- to another level, we need to focus on the education of
- the individual miner; not just for the miner himself or
- 25 for the operator, but more importantly for his family.

- 1 We need to teach the miner safe work habits. MSHA has
- 2 an excellent program of the "Walk and Talk" where we
- 3 sit and observe the miner as he works and try to teach
- 4 the miner safe work habits. We need to be more
- 5 teachers and less policemen writing tickets. I think
- 6 that's the way that we're going to take safety to the
- 7 next level.
- 8 And we can do that and we can do that
- 9 through what I call behavior modification. That is
- 10 scientifically -- that was shown to me by Dr. Hank
- 11 Cole, a doctor from the University of Kentucky many
- 12 years ago. And he sold me on that concept. And I
- think that concept needs to be constantly reinforced,
- 14 like with MSHA's work on problems. I think we can do
- more to teach safety principles and keep people alive
- and teach them why it's important to work safely. And
- 17 the most important reason is for their families.
- The third point I'd like to make is
- 19 just a statement. I think that coal miners truly are
- 20 American heroes providing cheap, dependable energy for
- 21 our country. Thank you very much.
- MS. SI LVEY: Thank you, Mr. Cayl or.
- I have a couple of comments and, first of all, I want
- 24 to comment on MSHA's proposed -- what we said included
- in the proposed rule for the grandfathering and what we

said for the estimated -- in respect to that we talked about an estimated service life.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Now, first of all, I'm sure that for the manufacturers who are in the audience, and I know we have some manufacturers in here that when -- for those who either, one, have refuge alternatives approved, the prefabricated self-contained ones or even portions of refuge alternatives, either constructed in place ones -- if you have refuge alternatives or components approved I'm sure that in your -- or alternatively, no pun intended, if you have refuge alternatives in the process of being submitted, in the process of being approved, that when you -- when your material is all submitted at the end of the day you will have suggestions for what you consider to be an estimated service life for that alternative. the first thing I want to say. I'm sure manufacturers will have that in their many sets recommendations for a lot of things, how to use, you know, what people should be trained on, the significant elements of the refuge alternative, and that type of thing.

We asked in our opening statement for suggestions on the estimated service life, you know, when we talked about the grandfathering provision we included, and I'm going to reiterate here, for the

- 1 prefabricated unit we said we were grandfathering in
- 2 the state-approved units or the units that were
- approved by MSHA in the ERP for the prefabricated one
- 4 for the -- until replaced or a ten-year maximum. For
- 5 the components we said until replaced or a five-year
- 6 maxi mum.
- 7 If you have suggestions for -- and
- 8 suggested alternatives to that, if you would include in
- 9 your comments any suggestions that you have and
- specifically why, and I think Mr. Addington commented
- on that earlier. And so now you, Mr. Caylor, and if
- anybody has any suggestions, would you do that before
- the comment period closes on the 18th.
- 14 I want to now go to a second comment
- which is not in the order in which you raised them but
- because it's in the order that I'm thinking about them.
- 17 And that is -- so I take note of the fact that you
- 18 requested an extension of time, I think that my opening
- 19 statement I also said time was of the essence, and I
- 20 think everybody here understands that. I said time was
- of the essence because we have to develop a final rule
- 22 by December 31, that includes developing, going back --
- let's say hypothetically, and I'm going to say more
- than hypothetically, the record closes on the 18th of
- 25 August, then we've got to go back and develop a

- 1 final -- we've got to evaluate the comments and the
- 2 record and we've got to develop a final rule and we've
- got to develop the preamble, we've got to develop the
- 4 Regulatory Economic Analysis, we've got to send it
- 5 through the Labor Department, we've got to send it
- 6 through OMB, and then we have to send it to the Federal
- 7 Register.
- 8 So that may look like a lot of time
- 9 but for everybody who is being -- not that I'm sort of
- defending ourselves, or setting up in advance, but
- 11 that's really a real short period of time for doing
- 12 what we have to do. And I guess I say that with all
- due respect to your request here today, that's almost
- impossible to do but we're going to do it because we
- 15 have to do it. So that's one of the reasons I did put
- in my opening statement that time was of the essence
- and we probably were not going to be able to allow any
- 18 extensions of time.
- Now, to specific comments, one of the
- things you said, so for anybody who says this, that the
- 21 PIB 07-03, and for those of you who don't know that
- happens to have been the PIB on breathable air, had no
- guidance or requirements as to surface area or volume
- for miners. And it didn't have any guidance on surface
- area volume because it was the PIB on breathable air,

- 1 it was not the PIB on refuge alternatives. Just so
- 2 people will know that. And you know it's hard -- I've
- 3 been saying that and saying that and saying that. So I
- 4 say it one more time. It doesn't hurt to say it one
- 5 more time.
- 6 On the -- if you have any comments on
- 7 the apparent temperature and mitigation of heat stress
- 8 and heat stroke, we ask for comments on that so if you
- 9 have anything that you intend any additional to get to
- 10 us, please do that. And I mentioned this earlier at
- 11 some point, I think we all take notice of the fact that
- some of this -- some of the issues involved in refuge
- 13 alternatives do involve developing technology. So for
- 14 all of the people who are involved in this, we
- appreciate your efforts but yet we know that by
- December 31st we have to put something in place.
- 17 So for everybody here, and I say that
- for everybody, I think what that means is we do make
- 19 the best decisions we can and do the best job that we
- 20 can, and particularly with respect to training and
- 21 other elements, and then, you know, because -- and
- 22 somewhat because it's developing technology. As I
- said, we do the best we can and then if there comes the
- 24 time when we have to learn from that best, then we just
- 25 have to do whatever, you know, make whatever

- 1 improvements that we have to.
- 2 Mr. Caylor, when you said, and you
- 3 said this another time too, I'm going to get to it, the
- 4 proposal requires technology that many believe is not
- 5 currently available. And I believe over here somewhere
- 6 else you talked about the technology. If you would, in
- 7 anyplace where you think -- here it is, many provisions
- 8 that are not currently available. If there are any
- 9 specifics that you have where the proposal has
- 10 requirements that are not currently available, if you
- 11 would be as specific as possible with respect to those
- 12 provi si ons.
- MR. CAYLOR: We will get that to you.
- 14 MS. SILVEY: Okay. And then finally,
- on the -- I guess the last -- I have two more comments.
- 16 The last one is on the expectations training, and you
- 17 said there was no time frame. There was a -- we
- 18 proposed that that be annual expectations training for
- 19 the miners in the use, the activation, and there was
- one other -- we said construction, if applicable. And
- 21 yet we understand several people's comments about the
- ones to be constructed. But that was annual
- 23 expectations training.
- 24 And what we -- when we did our
- estimate of the impact of the rule we estimated that

- 1 most operators would chose to do this annual
- 2 expectations training, to schedule it along with their
- 3 annual expectations training for the emergency mine
- 4 evacuation rule. And that they had to, because we
- 5 didn't require that they do that, but that's -- we
- 6 thought that they might schedule it at that same time
- 7 since it would be annual expectations training.
- Now, while we're talking about annual
- 9 expectations training, because we do believe that that
- is a very important element in the proposal, I would
- also appeal to the manufacturer's again that as they
- 12 finish their units and with respect to their
- 13 recommendations, if they have any suggestions relative
- to training if they would -- in their material, if they
- would include that also.
- And then the final thing, you
- 17 commented on the capacity of the refuge chamber, and
- we've gotten comments on that. We got comments from
- 19 the state of West Virginia on that. And this goes for
- anybody in the room too, if you have a suggestion to
- 21 the space and volume requirements that we included in
- the proposal, would you be specific. I'm not asking
- you to do it right now, I could ask you, do you have an
- 24 alternative suggestion to the 15 square feet of space
- and the 60 cubic feet of volume that we included in the

- 1 proposal? But you know, I'm not putting anybody on the
- 2 spot. If you don't have a suggestion right now, if you
- 3 would provide that to us before the record closes on
- 4 the 18th I would be most appreciative of that.
- 5 MR. CAYLOR: Will do.
- 6 MS. SILVEY: Those are only comments
- 7 that I have. Do you-all have anything?
- 8 MR. SHERER: Mr. Caylor, at one point
- 9 in time you were talking about removing a refuge
- alternative from service and allowing the operator to
- 11 continue to operate if some -- let's see, alternative
- that would provide the same level of protection could
- be available. Could you expand on that or tell us what
- 14 you mean?
- MR. CAYLOR: Well, that could be like
- the inflatable. If they had a sled, a chamber and they
- took that out, they could put the inflatable unit in
- that would inflate within a minute. There's other
- 19 alternatives that could go in that would be pragmatic
- that may or may not be the best alternative but it
- 21 would be for a short-term alternative.
- MR. SHERER: Thank you.
- 23 MS. SILVEY: Okay. Well, then, I
- don't think we have any further comments or questions,
- 25 Mr. Caylor. But we would be, as I said earlier, we

- 1 would be most appreciative if on the things you
- 2 included in your comments and further comments I asked
- 3 you, if you would provide those specifics to us before
- 4 the record closes.
- 5 MR. CAYLOR: I will get this back to
- 6 the industry in general and we'll try collectively to
- 7 respond to those excellent questions.
- 8 MS. SI LVEY: Okay.
- 9 MR. CAYLOR: Thank you very much.
- 10 MS. SILVEY: Thank you very much for
- 11 your comments. At this point I sort of have two
- options here. And I'm looking at everybody and I sort
- of know what option I would take. So maybe I will just
- 14 do that. And Mr. Hendren, where is Mr. Hendren?
- MR. HENDREN: Right here, ma'am.
- MS. SILVEY: The option is that we
- would recess for a period of time, hopefully not too
- 18 long, and take a walk through the refuge chamber that's
- out on the parking lot and then reconvene and have Mr.
- Hendren come back, because I'm sure the panel will
- 21 probably have a few questions to ask you after the
- 22 wal k-through.
- 23 And the other option is to reconvene
- 24 for Lunch and then do this after Lunch. Okay. Well, I
- guess we could reconvene for Lunch. And we'll

1	reconvene for Lunch and come back after Lunch. So
2	would people please come back after lunch at it's
3	about 12:05. Could you please come back in one hour,
4	please, and we will reconvene at that time.
5	(A brief break is taken at
6	12:05 p.m.)
7	MS. SILVEY: We will now reconvene
8	the Mine Safety and Health Administration Public
9	Hearing on the Proposed Rule on Refuge Alternatives for
10	Underground Coal Mines.
11	At this time the panel will take a
12	walk-through through a refuge alternative. CD at
13	this time the panel will take a walk-through through
14	the refuge alternative that has been brought here by
15	Mr. Connie Hendren of CD Safe Shields, Inc. After the
16	walk-through we will come back and we will be Mr.
17	Hendren will be available to answer any and
18	representatives of his company, to answer any questions
19	which the panel might have. So at this time we will
20	take a walk-through of the refuge chamber.
21	(A brief break is taken
22	at 1:07 p.m.)
23	MS. SILVEY: At this time we will
24	continue with the Mine Safety and Health
25	Administration's Dublic Hoaring on the agency's

Proposal on Refuge Alternatives. 1 2 I think we may have -- I first want 3 to say that we appreciate CD Safe Shield and the 4 walk-through that we got of the refuge chamber and 5 maybe some of us may have a few comments, questions 6 that we might want to ask. And that's where we are. 7 You heard this morning, I know 8 you-all sat through the testimony we heard this 9 And I believe it was Mr. Caylor who made 10 comments on the examination and the pre-shift. 11 he did that I believe he was talking about one of the 12 chambers that was already in the mines. And he was 13 talking about the manufacturer had recommended weekly 14 examination of that particular chamber. And I was 15 looking at the one outside, do you-all make any 16 recommendations on examination of yours yet, or have 17 you? 18 MR. HENDREN: To date we're looking 19 more in the form of a monthly, rather than a weekly. You can do whatever you want to do. I'll tell you, 20 21 from what I understand the reason that that particular 22 unit is needing to be examined on a weekly basis is 23 because the possibility of problems that could occur with the system, the roof system itself, and them not 24

And I think that would be a smart move on

25

knowi ng.

- 1 their part with doing that. If there's a problem with
- 2 our unit I think it could be checked from the exterior
- and it could be seen from the exterior.
- 4 If there's a problem with the
- 5 inflatable unit, you can have a rip in it and not know
- 6 it until you go to inflate it. And NIOSH had a problem
- 7 with that when they started doing that. So I would
- 8 suggest for us on a monthly basis.
- 9 MS. SILVEY: Okay.
- 10 MR. GEVEDON: From a design
- 11 standpoint I don't think you could ever check a piece
- of safety equipment often enough, just due to the
- 13 nature of it. But it's similar to your smoke detector,
- 14 you trust the batteries are in. There's a situation
- where it's not, you are asking for logging and
- monitoring that could be set up very simply in
- 17 relationship to testing this.
- And actually, we've got it down to --
- there's four applicable things that would need to be
- viewed and inspected, you have got your voltage, your
- 21 air supply that guarantees you have got your pressures,
- 22 which is a pressure dial and your voltage unit, and
- then you have the two subsequent tests.
- Now, they are asking for a structural
- 25 test periodically so if you are testing fourteen times

- 1 a day you will have to replace your test air, but it
- 2 takes a very small amount of test air to actually test
- 3 the integrity of the two chambers. But that's not your
- 4 livable air, that's testing air.
- 5 So if periodically the unit needed to
- 6 be opened and the actual testing air replaced, that's
- 7 very doable and very simple in relationship to it.
- 8 MS. SILVEY: Well, you know the
- 9 saying, what is it, a picture is worth a thousand
- 10 words. So I will say that I was glad to walk through
- 11 that and see it. With respect to some of the things
- that you showed us, for example, the CO₂ absorption
- 13 system and you had -- obviously you had the food and
- 14 the water. And it got me to thinking that there are
- things that the miners have to do, it appears to me,
- things that they have to be familiar with.
- 17 And then you heard me say this
- 18 earlier, have you-all thought about, and I didn't look
- 19 through your book yet, have you-all done any training
- 20 materials or have you thought about doing that?
- 21 MR. GEVEDON: If you will look
- through, no need to thumb through that, it is fairly
- 23 healthy, but as you look through under those sections
- 24 we've outlined the type of pictorial training material
- 25 that we would prefer to use. It would all be charted

- 1 and hung. It was recommended that due to the
- 2 situation, basically the consultants we asked said
- 3 basically can you keep it completely pictorial? You
- 4 Look at the picture and you do whatever the picture
- 5 shows. You don't have to read anything or calculate or
- 6 tabulate or these types of things, which is one reason
- 7 we moved away from gauges basically to indicator
- 8 lights, if all of your lights are lit and green, you
- 9 are in good shape; if you have got some yellow ones,
- 10 uh-oh, you have got a problem; you have got red ones,
- 11 do something about it now.
- 12 You will find through, I won't take
- you to school on the book, but you will find some
- 14 examples of the type of cartoon we will use to
- demonstrate these. And I'll give you an example, you
- don't have to be able to speak English to pull the card
- 17 from the back of the seat on the airplane to look and
- see how to get out of the slide. We will keep it
- absolutely as simply as possible for the purposes of
- 20 making it as effective as possible, so there's very
- 21 little chance for someone to also -- most of the
- 22 systems are basically tamperproof. You can leave the
- 23 air but it will meter itself out and shut down, so
- there's really nothing you can do under duress like
- 25 pull the wrong lever and have any difficulties

- 1 accordingly. I hope I answered your question.
- 2 MS. SILVEY: I think you have. I was
- going to say, so we have this requirement in the
- 4 proposed rule, the proposal for annual expectations
- 5 training which said that miners will, you know, take
- 6 the training on actually -- sort of like simulated
- 7 process of what they will go through to get it started,
- 8 you know, if they were in an actual emergency
- 9 si tuati on.
- 10 You heard -- well, you may not have
- 11 heard because it might have been at the Charleston
- 12 hearing, one of the persons who testified said --
- 13 because we said -- one of the things we said that they
- should be exposed to actual heat and humidity
- 15 conditions. One of the commenters said that they
- 16 didn't think that miners should be exposed to the
- 17 actual heat and humidity conditions. Do you have a
- 18 comment on that? Or if you don't have a comment now if
- 19 you have a comment before the record closes, because
- 20 I'm not trying to put anybody on the spot.
- MR. HENDREN: Well, one thing I would
- 22 say, certainly, if they're exposed to this they would
- be more likely to understand how they would react to
- it. And when you get a controlled atmosphere, an
- 25 environment, you are going to make decisions that you

- 1 are not going to make when it's not controlled. And
- 2 that's really -- I'm not trying to talk on both sides
- of my mouth but that's how I would answer that
- 4 questi on.
- 5 MS. SILVEY: I don't have any more
- 6 comment. You have some comments. I might but I'll
- 7 think about it.
- 8 MR. EPPERLY: You made a comment
- 9 outside pertaining to the area and volume for that
- 10 particular unit, and from what I saw it looked like the
- space for where the miners would be would be eight feet
- 12 by eight feet by four feet for this particular unit,
- 13 which is 256 cubic feet.
- And you understand too, with our
- process that if you don't agree with what the proposed
- 16 rules were pertaining to 15 and 60 -- I kind of got you
- 17 thought maybe those numbers you don't agree with. So
- 18 we'd like to -- if you do have comments we would like
- 19 to get those as to what you feel is the proper or
- 20 correct amount of space.
- MS. SILVEY: Your recommended space
- 22 and volume.
- MR. HENDREN: You understand what
- 24 we've done is we've put four people in that space and
- 25 then we've put six people in that space and, you know,

1 it's just a general -- not necessarily a disagreement 2 but an assumption on how you feel this space is used. 3 We feel like because a stool can be 4 placed on that area that you can have a place for your 5 feet, for your backside, and for your back and head 6 that four panels at two feet wide gives you 16 square 7 feet. And we will certainly send our recommendation to 8 that. 9 I certainly believe that it's way too 10 much personally, you do not need two panels wide to sit 11 on this and to move around on it, you know, but that's 12 But we've tried it so many different our opi ni on. 13 ways, and the thing about it is, of course, mine 14 companies want to get the most they can for their money 15 and everybody that we've shown it to feel like that one 16 seat per one person. And it certainly, you know, four 17 days may make a difference in how you are in there. 18 How many people are going to be in there four days. I 19 heard this morning that 48 hours would be enough air, you know, it may be for them but if I'm in there I want 20 21 four days because I think it may take four days. So one seat, we think, is wide 22 23 enough, big enough for it. 24 MS. SILVEY: I think then to

follow-up on what Howard was saying, that's kind of

25

- 1 what we wanted your recommendation, what you recommend
- 2 for the space and volume.
- 3 MR. HENDREN: We'll do that.
- 4 MS. SILVEY: If you want to submit
- 5 that to us, you can do that.
- 6 MR. HENDREN: Thank you very much.
- 7 Thank you.
- 8 MR. SHERER: I've got a related
- 9 comment. I notice that your airlock takes up quite a
- 10 bit of space, is there some way you could possibly
- 11 consider using that for shelter purposes, moving people
- in and out of the different compartments as people need
- to use the airlock.
- MR. GEVEDON: Yes. This is -- and
- the discussion that was started out there was the
- 16 airlock on that particular unit had been designed to
- 17 cycle people in and out and was approximately four feet
- 18 wide. The need for an airlock is not disputed. The
- 19 need for the change out and the wash out of
- contaminants in the airlock are understood.
- There are a couple of applications
- that we're looking at that I am going to be submitting
- that might look at a landscape that looks for the fact
- 24 that if we can minimize contamination of that it does
- 25 become a living area.

1	The reason that antechamber is so
2	long, according to the landscape now, we have to be
3	able to enter and exit cleanly, which means
4	non-contaminated, with a stretcher. So it's six feet
5	long for the purposes of getting two rescue people
6	and to give you an example, when we started building
7	doors our rescue consultants came in and said listen,
8	make them this wide and I said why? He said so I can
9	get through there with all of my gear on and actually
10	assi st.
11	So the need for that stretched out in
12	relationship to getting a stretcher in and out. Now,
13	during our recommendation on some of that we're going
14	to show you some testing that we've been doing on
15	something that will allow me the ability to not wash
16	that out is important, but my ability to basically run
17	people into a safe environment as quickly and
18	effortlessly as possible.
19	And you will see during the white
20	paper our primary concern, the airlock itself currently
21	the way it sits is not technically living space due to
22	the fact that the redundancy of change outs in the air
23	would require you to keep it set up. Now, you open the

door between the living chamber and the airlock, you

immediately have warm air in there. So when you close

24

25

- 1 it you retain some. To give you an example though, we
- 2 at least did try to trap that. You noticed a venturian
- 3 air system back in. If you were exiting the living
- 4 chamber and there's good air in the airlock, we can
- 5 pull that back in. And we can try to save some of that
- 6 by one way pulling it back in and then entering into
- 7 the airlock and moving out.
- 8 So I believe we have a couple of
- 9 recommendations that hopefully might make a little
- 10 better unit in relationship to getting people in and
- out of it and conserving breathable air. So that's one
- suggestion that we would very much appreciate the
- opportunity to make because it might thin out a little
- 14 bi t.
- 15 But if you notice however, our unit
- 16 currently meets specs. We can take a stretcher, we
- 17 have enough air to change it out three times, and it
- does have doors that close on both sides. So we've
- maintained some flexibility as this continues so that
- we can try to meet whatever needs are required.
- MR. HENDREN: When the unit went from
- four to sixteen in order to carry the stretcher, not
- only did you make the antechamber longer, you have got,
- of course, more air to change out, so the calculations
- 25 moved all of the way around. So it was a trickle-down

- 1 effect.
- 2 MR. GEVEDON: Somebody had asked, if
- 3 you would like to look at Page 162, I won't monopolize
- 4 this, but when a question is asked and it can be
- 5 answered -- I'll save you the time and trouble. You
- 6 can see it here.
- 7 We're looking basically at using as
- 8 much graphic illustration as we can to show the
- 9 systems. So if I can minimize the language almost to
- 10 nill I will. So if you were a German visiting, a
- 11 Japanese person visiting or something it would be that
- simple.
- 13 My end goal would be to have all
- 14 systems in operation on this, and we got talked to
- about this pretty good by most of our consultants,
- simple enough in an emergency situation for anyone to
- 17 try to understand. So like I said, we will be making
- these systems as inherently simple as possible. If you
- 19 have to change a regulator or do this or do that,
- 20 hanging next to it will be the card that shows you how
- 21 to do this. And if we have to put in some verbiage
- that's one thing, but like I said, I would like to see
- these systems simple enough that these people don't
- 24 have to Learn anything.
- Now, that type of simplicity

- 1 hopefully would fall back under your training program
- 2 where most people understand you pull the pin, point
- 3 the fire extinguisher at the fire, and squeeze on the
- 4 handle. And you may not have done it but you have seen
- 5 it done and it would function. I would like to have
- 6 the system that simple for purpose of doing it so you
- 7 can't mess anything up.
- 8 MR. HENDREN: And an example of this
- 9 diagram versus being typed up. I can take my glasses
- and read it typed up. If I'm in an incident in the
- 11 mine and break my glasses or lose my glasses, I can't
- read this. But I can see the diagram on it. So we're
- 13 looking at all aspects of this.
- MS. SILVEY: Okay. We appreciate
- 15 very much the demonstration as well as, you know, your
- 16 staying to answer any questions that we have. A couple
- of questions, I think, we asked you if you would
- 18 provide them to us before the record closes. And if
- 19 you think about anything else that you think will be
- 20 useful in terms of some of the issues that were raised
- 21 this morning and the things that we talked about. And
- 22 particularly, training or any of the ways the chamber
- was designed or anything like that, we would be very
- interested and appreciative of whatever information you
- 25 might want to send.

- 1 MR. HENDREN: Thank you all so much
- 2 for your time and for listening to us.
- 3 MR. GEVEDON: Mr. Sherer, as we send
- 4 this information, the format, the person, the
- 5 website --
- 6 MS. SILVEY: Just follow the
- 7 directions in the proposed rule, please.
- 8 MR. GEVEDON: All right.
- 9 MS. SILVEY: Any one of the four
- formats listed in the proposed rule because that will
- 11 efficiently get it to us and make it a part of the
- 12 record. And as I said earlier, all of the material
- then will be eventually put on -- will soon be put on
- 14 our website.
- MR. GEVEDON: We've also, if you
- noticed, I don't want you to turn, but in the front of
- 17 the book we used the approval application listing an as
- index. As we send you those for clarity we'll try to
- 19 refine it. If you did have a question about something
- you were asking I believe this book was built as a
- 21 communications document.
- We can say, listen, on Page 132 we
- showed this but this is better or that's better. So
- 24 we'll try to be as specific as possible. And in
- 25 reviewing that you should be able to locate that

- 1 information very quickly for the purposes of
- 2 understanding the specifics of what we're asking or
- 3 what we're proposing.
- 4 MS. SILVEY: Then let's get one thing
- 5 very clear, so the document you gave us today you are
- 6 submitting that to us today then?
- 7 MR. HENDREN: We're submitting that
- 8 document for information purposes.
- 9 MR. GEVEDON: Only as a draft.
- 10 MR. HENDREN: You will see draft on
- 11 the front.
- 12 MS. SILVEY: So you are not
- officially submitting that in the record?
- MR. GEVEDON: It's a communications
- document.
- MR. HENDREN: If there's a question a
- 17 week from now you had about something that was said,
- 18 you can turn and get our answers to those questions.
- MR. GEVEDON: And we were fortunate
- 20 enough to go to the MSHA people, and we used this
- 21 basically as a communications document so if we had a
- 22 question or they had a question we could refer to the
- same information and be quote, unquote, on the same
- 24 page.
- 25 So this is merely an information

1 document, but when we submit we'll try to refer it back 2 to this section and this heading and keep it as concise as possible for clarity. 3 4 MR. HENDREN: Thank you very much. 5 MS. SLLVEY: Okay. Thank you. 6 MR. HENDREN: Are we excused? 7 MS. SILVEY: Yes. Thank you. Αt 8 this time is there anybody else in the audience who 9 wishes to make a comment, additional comment? Anybody 10 el se? 11 If nobody else wishes to make a 12 comment, then I want to say on behalf of MSHA that we 13 appreciate your comment today. For those who came and did not testify, we appreciate your attendance today 14 15 because that showed that you had an interest in this 16 rule making. 17 As I stated earlier we will take the comments and testimony and we will go back and try to 18 19 develop the best and most appropriate final rule that For those of you who did state that you would 20 21 send us additional comments, please try to do so before 22 the record closes on August 18th. 23 Again, we appreciate everybody's 24 attendance and this hearing is now concluded.

(Whereupon, the hearing was concluded at 2:10 p.m.)

25

1	STATE OF KENTUCKY) COUNTY OF FAYETTE)
2	COUNTY OF TATELLE)
3	I, SUSAN R. ELSENSOHN, Certified Court
4	Reporter and Notary Public, State of Kentucky at Large,
5	certify that said testimony was taken down in stenotype
6	by me and later reduced to typewriting, by computer,
7	under my direction.
8	My commission expires: September 5,
9	2010.
10	In testimony whereof, I have hereunto set
11	my hand and seal of office on this the day
12	of, 2008.
13	
14	SUSAN R. ELSENSOHN
15	Certi fi ed Court Reporter Certi fi cati on No. 95010
16	Notary Public, State-at-Large
17	
18	
19	
20	
21	
22	
23	
24	
25	