

P A R T I C I P A N T S

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Noah Connell
Charles Jeffress
Lee Smith
Bruce Swanson

SPEAKERS:

Adele Abrams
Thomas Broderick
Richard Hackney

I N D E X

DEPARTMENT OF LABOR

PUBLIC STAKEHOLDER MEETING
ON CONFINED SPACES IN CONSTRUCTION

October 4, 2000

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Keynote: "----" indicates inaudible.

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M O R N I N G S E S S I O N

(8:17 a.m.)

MR. SWANSON: Can you hear me in the back?

Apparently, industry trusts us more with confined space than with some of the other standards we've discussed here in the past year or two. The turnout is somewhat less than what we expected this morning.

Good morning gentlemen. We'll make the introductions quick. My main task at this moment is to introduce my boss, Charles Jeffress and give him a moment or two to tell us all why this is something we do wish to hurry forward with. Charles?

COMMENTSby Charles Jeffress

MR. JEFFRESS: And I see hurry forward is being used in the sense of hurrying, is that right?

(Laughter)

We're committed to a series of these stakeholder meetings on confined spaces in construction. Today here in D.C. and next week in, is it Boston, next week or Houston? Houston next week. And then the end of the month up in Boston.

The idea of being this isn't a new subject for any of us in terms of the hazards of confined space in construction. But since OSHA's aiming to put out a notice in

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1 July of next year, we want to assure that folks who have a
2 particular perspective that you want to make sure we know and
3 understand and consider before -- put a notice out to have a
4 chance to tell us your views on this. We are going to be open
5 today in terms of the issues that we're interested, things
6 we're concerned about, what we'd like to hear from folks on.
7 We'll do this also in Houston and in Boston.

8 Those of you who got a notice of the hearing should
9 have also got a listing of the issues that we want to hear
10 from people on, the things that we're considering and
11 concerned about as we develop our proposal. We're looking for
12 the kinds of confined spaces people are encountering in
13 construction, what kind of hazards are there.

14 We know that, obviously, the asphyxiation is the
15 single cause of death in confined spaces. So we know
16 something about what that means, about oxygen depletion. We
17 know that the physical agents inside the spaces, the
18 electricity of mechanical hazards, engulfment hazards are the
19 second leading cause of deaths in confined spaces.

20 So we know something about what the hazards are that
21 are killing people, but we're interested in hearing from folks
22 as to what your observations are of what the characteristics
23 are of these confined spaces, what the hazards that you see
24 are, what kind of obstructions you see in these spaces that
25 need to be controlled. Essentially, what are the kinds of

1 things that we need to deal with in our proposal.

2 A couple of specific comments that -- specific areas
3 that I would urge people to talk about. If you have a thought
4 on it. Things that may be different from what we have dealt
5 with in the general industry confined space, for the
6 engulfment hazards, do we need an early warning system for
7 things like sewers? How do we deal with engulfment hazards?
8 Something that we haven't dealt with in general industry and
9 something that would be, perhaps, differently handled in
10 construction.

11 Continuous monitoring, in general industry we have
12 periodic monitoring of the atmospheres, monitoring equipment
13 that's developed significantly since the general industry
14 standard was adopted. So there are ways now, relatively
15 inexpensive ways to do continuous monitoring of atmosphere in
16 confined spaces, is something we should move to in
17 construction. Would be particularly interested in that.

18 Also, in general industry we don't allow anybody to
19 monitor any more than one confined space. Be interested in
20 people's views here in construction, can one person monitor
21 more than one space at a time? Or more than one permit of
22 required space? How many different confined spaces can
23 someone adequately monitor and be available to assist if they
24 are needed?

25 So those are some particular areas that we're

1 interested in comments on. I'm sure other folks will flush
2 them out here today. And I want to encourage those of you who
3 are here to take the opportunity to talk to OSHA about what it
4 is you see, or what advice you have. If you didn't come
5 prepared to speak, particularly since it's such a small
6 turnout, we can keep it relatively informal and be interested
7 in comments that you have.

8 But again, thank you for coming to the OSHA folks
9 who are working on it. This is a very important standard. I
10 was reminded by Del as I got up here that MSHA put out a
11 notice in 1989 that they wanted to do something on confined
12 spaces in mines. And are still working on it. I'd like this
13 not to go that long. I'd like us to act expeditiously and we
14 have a July 2001 date for a proposal. I appreciate what
15 you've done so far. Let's act with all deliberate speed, or
16 in a hurry, as Bruce says and get this one out too.

17 Thank you very much.

18 MR. SWANSON: Thank you.

19 (Applause)

20 Yes, we have the room until noon, so the five minute
21 limitation on comments will be waived, I believe. Brenda will
22 be open minded about that. But let me turn this over to
23 Brenda McLahan from our Philadelphia office, who will be the
24 facilitator for the remainder of the morning. Or as long as
25 events call for anyhow.

1 And let me echo Charles' request that those of you
2 in the room that didn't intend to speak, will have an
3 opportunity. We also waived the sign-in rule. So if you'd
4 like to comment, join us please, this morning. Thank you.
5 Brenda?

6 FACILITATOR McLAHAN: Okay. First can you hear me?
7 (Nodding of heads)

8 Okay. Go over a few housekeeping issues. The
9 restrooms are out -- well, probably that door is better. And
10 if you see the sign for the daycare center, it's in that
11 general area. The cafeteria is on the sixth floor, the coffee
12 shop is on the fourth floor. I expect that we'll break about
13 10:00 for 15 minutes or so. And, let's see, I think those are
14 the only housekeeping issues that I have.

15 Today we have Lisa Burns, is sitting back in the
16 sound room. She will be taken verbatim notes. But we're not
17 assigning the notes to any particular -- we're not identifying
18 the source. So we will have a record of this meeting.

19 There will be a summary prepared and a copy of that
20 summary will be mailed to each speaker. And anyone else who's
21 interested in receiving a copy should contact Lee Smith. And
22 he will see that that's sent to you.

23 As Bruce told you, I'm going to facilitate the
24 meeting today, so my mission here is to help you get the
25 information and the issues and concerns that you have, get

1 them out and share that information with OSHA.

2 We have a few ground rules and they're pretty basic
3 that are in all meetings. Everybody's to respect everybody's
4 ideas. We'll have one person speak at a time and we're
5 setting aside about 15 minutes for each speaker. Given the
6 number of people that we have, if you need more than 15
7 minutes, I'll be open to that.

8 And we are going to do our best to stick to the
9 schedule. Okay, I'll introduce our speakers. We'll get
10 started right away.

11 The first speaker is Adele Abrams. She's with the
12 law firm of Patton and Boggs, but she's here representing the
13 American Society of Safety Engineers. Okay, Adele?

14 **PRESENTATION**

15 **by Adele Abrams**

16 MS. ABRAMS: Okay, thank you. This is a different
17 approach to a stakeholder meeting than I was expecting, but
18 I'll give it a shot here. I am, as Brenda said, representing
19 the American Society of Safety Engineers, which is one of this
20 country's largest safety organizations. There are currently
21 about 33,000 members of ASSE nationwide and internationally.
22 And they include a construction division. So ASSE has a
23 direct interest in the development of a confined space
24 standard.

25 ASSE commends OSHA for having this stakeholder

1 meeting to obtain input from the regulated community and from
2 safety professionals in particular before it develops its
3 proposed rule. And we will be having a representative at one
4 of the other stakeholder meetings as well. Who was, actually,
5 directly employed in the construction industry. Although, I
6 do come from a construction background as well.

7 ASSE does support development of a confined space
8 standard for the constructions industry. And we encourage
9 uniformity between the construction and general industry
10 sectors.

11 Generally, I guess, I would like to make the
12 recommendation that OSHA looks strongly at the voluntary
13 consensus standard that's out there, which is the ANSI-Z117
14 Standard. I happened to have brought a copy with me here and
15 I believe we've already given a copy of this to Lee Smith.
16 It's entitled, Safety Requirements For Confined Spaces. And
17 it was promulgated in 1995, so it's relatively up-to-date.

18 I've gone through and reviewed this. I note that
19 OSHA had several people who were part of the group that
20 developed this standard. And ASSE, in fat, served as the
21 Secretariat for this ANSI Standard.

22 As you probably know, several years ago, the
23 Technology Transfer Act of 1995, which is Public Law 104-113,
24 included what's known as the Morella Amendment, which
25 encouraged agencies to employ voluntary consensus standards

1 whenever possible and appropriate rather than, more or less,
2 reinventing the wheel. And that ties in nicely with OMB's
3 circular A-119, which is federal participation in the
4 development and use of voluntary standards.

5 What this does is if there's a consensus standard
6 out there, the agency should look at it. OSHA is not required
7 to adopt the consensus standard as is, but they should at
8 least give some serious consideration to it and articulate why
9 it's not appropriate if they choose to go off in a divergent
10 manner.

11 But the consensus standards do represent, as I say,
12 a consensus. It's not necessarily 100 percent agreement on
13 the part of the industry or the affected labor groups. But
14 these things are developed with a great deal of work and
15 thought and, I think, can provide a good template for OSHA to
16 use as it goes into its rulemaking activities here.

17 With respect to the general questions that were
18 asked, first of all, the view of the society is that the
19 confined space rule does need to be revisited because
20 currently the approach that construction uses is not
21 consistent with 29 C.F.R. 1910. We also want to stress that
22 qualified safety professionals should be doing confined space
23 work, as Mr. Jeffress indicated earlier. Confined spaces are
24 a significant cause of death in the construction industry.
25 And I might add, also, in the mining industry. And you need

1 to have people who know what they're doing, in charge of doing
2 the testing, the monitoring, deciding which spaces should be
3 permitted spaces and the like.

4 Not necessarily that you need to be a certified
5 safety professional or have a PE in safety, but there should
6 be at least adequate training and qualification of the
7 individuals who are charged with these important tasks.

8 OSHA has put forth five questions, or issues, to be
9 addressed here. And I'll go through these very briefly.
10 First of all, they've asked what examples of confined spaces.
11 And I would point to what A-117 says and its examples of
12 confined spaces are tanks, silos, vessels, pits, sewers,
13 pipelines, tank cars, boilers, septic tanks and utility vaults.
14 And this is not a totally inclusive list, but these are the
15 primary types of confined spaces that would be encountered.

16 The defining characteristics of confined spaces, of
17 course, would be restricted entry and exit, which the ANSI
18 standard defines as physical impediment of the body, where you
19 would have to use the hands or be a contortionist of sorts to
20 enter or exist from a confined space.

21 You also would look at what the potential or the
22 known hazards are the space. And these, of course, include
23 engulfment, which is one of the primary hazards, as well as
24 hazardous atmospheres and the toxic environments as well. And
25 examples of obstructions, you know, again, I think that's

1 pretty much self explanatory. That would be pipes, it would
2 be design, and that is one thing that I guess bears mention
3 here.

4 And I'm parroting from ANSI once again, but in the
5 forward, which is not actually part of the standard, it notes
6 that the critical role of design can influence the safe entry
7 of confined spaces and that designed efficiencies can often
8 increase the risk for entrance.

9 And this, I think, goes to the obstruction as well.
10 Because if things are poorly designed, or a design with built
11 in obstructions, you are necessarily going to be increasing
12 the hazard to employees who are going to have to enter those
13 spaces.

14 And some of the designed efficiencies identified by
15 the ANSI Committee are the means of entry to spaces which are
16 too small, improperly located, or that complicate or inhibit
17 escape. Spaces which are convoluted, unnecessarily obstructed
18 or hazardously configured. Internal clearances which are too
19 tight for safe passage, space penetration distances that are
20 excessive without alternative means of access or escape.

21 The absence of appropriate devices to isolate all
22 energy sources from the space, know provision for vessel
23 mechanisms or devices to prevent loose materials from bridging
24 or compacting, and lack of considerations for features that
25 could enhance space ventilation effectiveness. And then

1 finally, general structural weaknesses in the walls, floors,
2 ceilings, or pipes that could contain gases, liquids or steam.
3 All of these are things that can increase hazards and risks
4 associated with work and confined spaces.

5 With respect to the second question about engulfment
6 hazards in sewers that often cannot be effectively isolated
7 and whether an early warning system is needed, ASSE has not
8 really developed a position on this. You know, ideally, full
9 use should be made where it's technologically and economically
10 feasible of all of the advanced technology. And early warning
11 is definitely better than late warning. I think that's a no
12 brainer. But we know that some of the people involved in
13 sewer construction are going to be participating in these
14 hearings. And we would like to defer to them on that issue.

15 We do believe, however, the technology is currently
16 available to address early warning issues. And, I guess, the
17 question is whether it would be feasible in application to the
18 types of confined spaces that are present in the sewer
19 industry.

20 The third issue was for atmospheric hazards. The
21 general industry standard allows period, rather than
22 continuous monitoring and OSHA has asked whether continuous
23 monitoring would better protect employees than periodic
24 monitoring and whether there are labor costs associated with
25 the use of continuous monitors. And, finally, what the cost

1 would be of continuous monitoring.

2 ASSE believes that there is no question that
3 continuous monitoring would provide better protection for
4 employees and the cost of such monitoring systems has
5 continued to decrease. Although, there are significant
6 variations in such systems. We looked through best safety and
7 security directory and the estimates that we saw in terms of
8 cost really range from \$1,500.00 to \$3,500.00 per unit. And
9 this would be dependent upon the accessories and the
10 instrumentation needed to detect hazards and to provide
11 adequate warning.

12 You know, again, larger companies are going to be
13 able to benefit by the economies of scale, purchase and use of
14 such systems would likely work a greater hardship on smaller
15 employees. But ASSE, frankly, has always taken the position
16 that you need to have uniform safety rules and you can't
17 provide greater levels of protection to an employee simply
18 because they work for a larger company.

19 So the agency has to factor in what percentage of
20 the affected employers would be small businesses as, indeed,
21 it would need to do under SBREFA anyway and make the
22 determination based on the universe of covered employers
23 whether or not something is technically and economically
24 feasible.

25 But the continuous monitoring systems are out there

1 and if they are not technically or economically feasible now,
2 they might be in five years. And, perhaps, that issue would
3 need to be revisited down the road.

4 With respect to whether there would be a labor cost
5 savings, possibly. If there could be electronic communication
6 to those working in a confined space. But we don't really
7 have any hard numbers to give you on that and that's
8 something, I think, probably the unions could provide input
9 on.

10 The fourth issue is are there ways to make it easier
11 for small businesses to protect their employees from confined
12 space hazards without compromising safety. Unfortunately,
13 probably not. As I said previously, ASSE's view is that
14 safety laws should be equally enforceable for any business,
15 regardless of size and, certainly, confined space hazards are
16 the same regardless of the employer's size.

17 You know, but you do need -- if there is an easier
18 way to do this, than large employers should be able to afford
19 themselves of that approach as well. You know, if you adopt
20 something that is heavily technology focused, it is going to
21 work to the disadvantage of smaller employers, you know, and
22 some might be put out of business as a result.

23 So, as with anything, this is an issue that the
24 agency is going to have to evaluate in terms of cost and
25 benefit within the confines of the OSHA Act.

1 The last issue was whether OSHA should permit and
2 attend and to monitor more than one permit required confined
3 space at a time and allow an attendance or entry supervisor to
4 serve simultaneously in both roles. The first subquestion
5 that was posed was what was the maximum number of permit
6 required confined spaces an attendant can effectively monitor.
7 This is a tough issue because you have to -- it's going to be
8 very site specific. How close in location are these permit
9 required confined spaces? What are the hazards involved? You
10 really can't predict an exact number that would be appropriate
11 across the board.

12 What we would suggest is that the employer would
13 need to do a credible hazard assessment analysis, have a
14 knowledgeable person, preferably a safety professional, look
15 at the sites and then make a decision based both on the text
16 of the standard and on their professional expertise, erring on
17 the side of caution.

18 You know, listen to what the other stakeholders have
19 to say on this. I don't know if it's possible for OSHA to do
20 a survey and find out typically how many confined spaces exist
21 contemporaneously at a single worksite and what their
22 proximity is to each other. But these are all issues that
23 should be evaluated.

24 The next subquestion was whether any emergencies
25 have occurred in which an attendant's ability to perform

1 rescue related tasks was compromised because they were
2 monitoring another site. ASSE does not have any anecdotal
3 experience or data on this. We do suggest that you ask NIOSH
4 whether they have ever studied this issue because I believe
5 they have done some research in the confined space area. And
6 put this out there for more general comment, perhaps, on the
7 website. I'm sure if there have been situations like this,
8 the workers involved would be more than happy to share that
9 information with OSHA and simply getting the word out there
10 that you're seeking this type of information.

11 The next is what experience does the construction
12 industry have with attendants or authorized entrance serving
13 as entry supervisors. And, again, you know, we defer to the
14 experience of those out there in the field. I think somebody
15 who is qualified, a competent person, could under normal
16 circumstances serve in both capacities. The key issue is what
17 constitutes a competent person.

18 You know, it's very important that any of the
19 procedures that are set up be reviewed by competent
20 professionals and in the standard 1910.146 Appendix B, titled
21 Procedures for Atmospheric Testing, Permit Required for
22 Confined Spaces, OSHA specifically notes that development of
23 entry procedures should be done by, or reviewed by, a
24 technically qualified professional, e.g., OSHA consultation
25 service or certified industrial hygienist registered as safety

1 engineer, certified safety professional or certified marine
2 chemist, based on evaluation of all serious hazards.

3 And what we want to do is agree with that and make
4 the point on the need for professionalism for those persons
5 performing such duties. An attendant has to know what they're
6 doing. An entry supervisor better have some substantial
7 credentials behind them to ensure that they are able to
8 monitor and guarantee the safety and health of those employees
9 for whom they are responsible. Competency is really the key
10 here.

11 And that really concludes our prepared statement
12 such as it is. I'd be happy to answer any questions. And we
13 look forward to working with OSHA on this important rule. And
14 if we can be of any assistance, please let us know.

15 FACILITATOR McLAHAN: Thank you very much Adele.
16 And I neglected to mention that we have Nilgun sitting here,
17 who is giving the speakers little high signs of how much time
18 is remaining. But she did an excellent job. You used the 15
19 minutes. Thank you very much.

20 Does anyone have any questions for Adele? Yes?

21 MS. : When you said mining regulation ---?

22 MS. ABRAMS: This is an OSHA rulemaking so it would
23 not have any direct impact on the mining industry. But
24 because surface mining and heavy construction or quite
25 analogous in terms of the hazards, I would think that an OSHA

1 construction standard could be reviewed by MSHA and, perhaps,
2 service a template for their rulemaking which, as Mr. Jeffress
3 noted, has been on the back burner throughout the 1990s.

4 FACILITATOR McLAHAN: Okay. Excuse me, would you
5 stand, please, and maybe use the mic so that our recorder can
6 hear. Thank you.

7 MR. : Adele, you had mentioned that for an
8 attendant or an entry supervisor ASSE felt that a certified
9 safety professional, certified industrial hygienist, someone
10 like that, should be required for that duty. Do you not feel
11 someone who has gone through, let's say an OSHA training class
12 on entry supervision, something like that, would not fill the
13 same capacity?

14 FACILITATOR McLAHAN: Well, a certified safety
15 professional, you know, has by through examination and
16 training, received the credentials. What we referenced there
17 was the Appendix B of the OSHA standard and that does, of
18 course, provide for alternative methods of qualification,
19 including OSHA consultation service.

20 I think a person who has had specialized courses in
21 confined spaces through the OSHA training programs or
22 analogous state programs, perhaps, somebody who holds an ASP
23 certification rather than a CSP would be able to do it. The
24 issue is competency. And the problem is that too often you
25 have companies that will just select the most senior person on

1 their crew to be the attendant or to be the entry supervisor
2 without having exposed them to any in-depth or specialized
3 training on this issue.

4 Not every member of ASSE is a CSP or a safety
5 engineer, even though the title is safety engineers. And we
6 are not trying to exclude people from participating or being
7 able to hold these positions. But what we are stressing is
8 the need for competency for these people to be qualified so
9 they can appreciate the hazards so that they know how to
10 operate the equipment to do the monitoring that's necessary.

11 You know, too often when you have multiple
12 fatalities occurring in confined spaces, it's because the very
13 people who were supposed to be standing guard just dive right
14 in there and they end up being asphyxiated or subject to the
15 same hazard. And instead of having one fatality, you have
16 multiple fatalities. And I would suggest if those people had
17 had better qualifications up to, or including, a CSP, but at a
18 minimum, some specialized training in confined spaces, we
19 wouldn't be seeing these rescuers perishing at the rates that
20 we are.

21 FACILITATOR McLAHAN: Okay. Yes?

22 MS. : So is OSHA offering certification
23 programs? So that what you're requiring for these people to
24 have?

25 MS. ABRAMS: Well, I'm not with OSHA and I'm sure

1 Lee would be able to speak more to that. I know, generally,
2 there are classes in confined space offered by OSHA. I
3 believe even ASSE may have some courses of that nature. The
4 National Safety Council I know has materials. The American
5 Industrial Hygiene Association has materials. I was at a
6 meeting of their's earlier this year and the gentleman who
7 wrote the textbook on confined space was the speaker. And I
8 know he does training.

9 So there are available sources, both governmental
10 and private sector where you can obtain confined space
11 training. And if there's a new rule that comes out, I'm sure
12 that will generate more training sources.

13 MS. : But my question was that yes, we, on
14 our job sites, we require to have the contractor to have
15 safety superintendent which has to be familiar and have to
16 have certain training, but it's not the same as requiring for
17 him as a competent person to have -- what I'm trying to see is
18 if a type of certification in confined space? Or if I decide
19 that he knows enough confined space is that good enough?

20 FACILITATOR McLAHAN: Lee, would you be able to
21 answer her question?

22 MR. SMITH: Yes, we're interested in hearing from
23 the construction community on precisely this type of question.
24 If you feel that they should be specifically required to have
25 some kind of a certificate, you know, we want to hear that and

1 why you feel that way. And if you feel that they should not
2 have to have a particular certificate, you know, we'd like to
3 know the reasons for that. We're hear today to hear what you
4 all have to say and we're interested in your opinion and why
5 you have it.

6 MS. : I'm with Washington Metro, the
7 owner, and we hired a contractor. So whatever OSHA requires
8 we put in our contract. And that's where I was coming, if
9 that's what you're going to have to put in there, I will add
10 into my contracts. That as a new requirement, because we go
11 through the formal interview process of the contractor
12 personnel. Specifically, as a safety superintendent. But I
13 do not have that as a criteria for accept or rejecting him.

14 MS. ABRAMS: I guess one thing I would note, at the
15 start of my comments, ASSE urged OSHA to consider adoption of
16 the ANSI Z-117. And the definition of qualified person that
17 appears in that consensus standard is a person, who by reason
18 of training, education and experience is knowledgeable in the
19 operation to be performed and is competent to judge the
20 hazards involved and specify controls and/or protective
21 measures. So as you can see, the ANSI standard does not limit
22 qualified persons to those individuals who have earned the CSP
23 or a PE degree.

24 If you have a combination of on-the-job experience,
25 coupled with some specific training in this area, you as the

1 employer would have to make the judgement call as to whether
2 that person is sufficiently knowledgeable in the operation and
3 prepared and competent to judge the hazards and to carry-out
4 those functions.

5 MS. : I'm sorry. In our experience,
6 having the certification in some instances was not good
7 enough. I had a lot of more knowledgeable people that did not
8 went and got the CSP or ASP. And we felt they were more
9 qualified.

10 FACILITATOR McLAHAN: In that instance, you know, my
11 recommendation would be you go with the most qualified and
12 knowledgeable person.

13 MS. : But my question was are we going to
14 be limited or forced to go that way? That was the concern?
15 To have somebody that have to have certification?

16 FACILITATOR McLAHAN: Well, I think the point that
17 Mr. Connell made was that at this point, we are gathering
18 information from the community. Decisions have not been made.
19 So, we'd like to hear what your recommendation is, if you have
20 one, or from the other people here and than the agency will
21 have to make a determination.

22 MS. : The one point I could make would be
23 that if you feel that this individual have to have specific
24 type of confined space training, because everybody reads the
25 regulation and, you know, understand them somewhat, and in go

1 in the field and from the experience of talking with the
2 other, gain some more. But if it's strongly recommended than
3 I would suppose that it be best served for everybody if those
4 certification program could be in place so we make a
5 requirement for an individual to go and obtain them.

6 FACILITATOR McLAHAN: Okay. Thank you. Are there
7 any other questions or comments?

8 (No response)

9 Okay. All right, our next speaker is Tom Broderick
10 of the Construction Safety Council. It came quick, huh?

11 MR. BRODERICK: Yes.

12 PRESENTATION

13 by Thomas Broderick

14 MR. BRODERICK: Well, I requested to speak last.

15 (Laughter)

16 I had no idea that would come quite so soon. I'm
17 with an organization called the Construction Safety Council.
18 And we work with predominantly union contractors and trade
19 unions to try to make the workplace a little bit safer and a
20 little bit healthier for the men and women that build the
21 roads and bridges and buildings in this country.

22 I was also a construction worker for a long time and
23 I, in doing that, created confined spaces. And I was an
24 entrant into confined spaces. And then I got into safety and
25 health and became the author of a number of programs for the

1 employers for whom I worked to address the hazards of confined
2 spaces.

3 And it was difficult to really find a good
4 boilerplate to create a confined space program for
5 construction. And I think that that really speaks to the
6 urgency that I feel for getting this standard out. There are
7 not readily available good resources to help contractors put
8 together a good quality confined space program.

9 Now, I look around the room and I see some of my
10 colleagues that represent contractors who are members of trade
11 associations. And those contractors are very lucky to have
12 the level of expertise that they have available from their
13 respective trade associations. However, a lot of the people
14 that I represent are small mom and pop shops who do not have a
15 safety professional on staff that are not members of trade
16 associations. So the most common document that those people
17 turn to are the 1926 construction standards. And bereft of a
18 confined space standard, I think that a number of those small
19 shops run into problems. Not to say that all the people who
20 run into problems in confined spaces are small shops.

21 And I want to set an example of a confined space
22 accident that happened in Chicago. November 9th of 1995.
23 It's a fairly typical confined space scenario in construction.
24 It involves not the general industry type of people crawling
25 into tanks or process lines or systems, it involves an

1 excavation. And this happened at an aluminum processing
2 plant. An excavation was 15 or 16 feet deep. The workers had
3 been in and out of this excavation a number of times. It had
4 been treated, initially, as a confined space with initial
5 monitoring. And there had been a couple of other rechecks of
6 the monitoring of this excavation. But at the stage of work
7 where these folks were, there was an assumption because they
8 had already put in some foundations and were building a wall
9 out of this excavation that continued monitoring wasn't
10 required.

11 Well, it rained and there was some water in the
12 excavation so the workers were directed to get a pump, hook up
13 the pump and dewater the excavation. And so they did that.
14 They got a pump, they put it in the excavation and ran the
15 line to a sewer where the water that was being pumped out was
16 directed. And they in hooking up this pump needed to have a
17 source of compressed air. So they went to the host employer
18 and said, gee, guys, you know, we could bring a compressor on
19 to the site, but we'll have to charge you for it. Do you have
20 compressed air that we could use. And the host employer then
21 directed them to a compressed air outlet that was a part of
22 the permanent plant piping.

23 The pump is hooked up, the pump is operating, the
24 workers go back to work. The OSHA investigation is not sure
25 exactly how the first person went down. They speculate, and

1 the contractor speculated that the worker may have fallen from
2 a rebar wire mesh structure that was being built. Anyway, the
3 person ended up on the bottom of the excavation.

4 Another worker went to his help and soon that person
5 was also lying in the bottom of the excavation. Right behind
6 that person, a couple of others followed. And how often have
7 we heard this scenario, you know, the well-meaning co-workers
8 are trying to rescue their friend.

9 Well, not bad enough, the assistant fire chief for
10 the plant fire rescue brigade shows up and he goes into the
11 excavation and now he's down. Finally, the outside rescue
12 people show up and fortunately the rescue squad is one that
13 was trained, because they were in the jurisdiction of the deep
14 tunnel in Chicago, and they had had lots of confined space and
15 rescue training. And they immediately recognized what the
16 problem was. You know, if you have one person down and it
17 looks like the person fell, that's a -- you know, that's a
18 scenario that would require more analysis. But when they saw
19 the number of people that had succumbed, they recognized that
20 there was an atmospheric problem. And so they donned their
21 air packs and went in and performed the rescue.

22 Well, as it turned out, two of the workers were
23 killed and the assistance plant fire brigade chief was killed.
24 In doing the investigation, what happened in that excavation?
25 they had been in and out of it, they had monitored it

1 initially, they had monitored it a few times. There just
2 didn't appear to be anything that could screw up.

3 Well what, in fact, had happened is the pump, which
4 was worked just fine, was being propelled not by compressed
5 air but by argon. The host employer had directed them to hook
6 up to a pipe that was not labeled, nor were any of the pipes
7 in this facility. And it happened to be argon, a heavier than
8 air inert gas. So they succumbed to asphyxiation.

9 I use this example because it points to a lot of
10 things that were touched on earlier that need to be fixed and
11 that need, in my estimation, to be fixed fairly quickly.

12 The need for continuous monitoring, I look at the
13 cost of equipment to do it now. And when I look at other
14 equipment that even small contractors are using to do their
15 work, the cost of it, in my estimation, is not terribly
16 prohibitive.

17 Continuous monitoring in this scenario would have
18 saved lives. It would have indicated very quickly that the
19 oxygen content had fallen below an acceptable level.

20 I guess another message, and I want to say loud and
21 clear here, and this excavation incident helps me to that, is
22 to presume that a host employer has a good effective confined
23 space program to which we can marry an effective confined
24 space program for contractors, I think, is taking us down a
25 treacherous path.

1 In fact, I think there are many, many host employers
2 out there who have a weak or, perhaps, a non-existent confined
3 space program. And that could easily carry over to a lock-
4 out/tag-out program which, of course, can effect entry into
5 confined spaces as well.

6 So that in building this standard, I hope that we
7 really do not presume that the host employer is going to have
8 a lot of responsibility in protecting the construction workers
9 who are going to be entering into confined spaces. Whether
10 they're confined spaces that have been created by the
11 contractor or whether in industrial construction they're
12 confined spaces that were created by the host employer.

13 Having been a safety person, a field safety person,
14 I have been in plants where I've been given misinformation, as
15 in the example that I've used. In the example that I used,
16 the contractor was directed to use argon rather than
17 compressed air. An unfortunate mistake. But I have in the
18 past been given bad information and have been very thankful
19 that in my own procedures, I went back and retraced all of the
20 steps that would provide a good level of protection for the
21 people that I was charged with protecting.

22 I think that we, again, have to take a close look
23 when we're building this standard to make sure that the host
24 employers' responsibilities are not given too much weight.

25 The use of multiple attendants in a permit required

1 confined space standard, I have a great deal of concern with.
2 As my co-presenter pointed out, it really does go to the issue
3 of how many spaces and where are they. But I feel that if we
4 have an attendant that is responsible for lives and multiple
5 confined spaces, should there be a problem in one confined
6 space, all of a sudden, all of that person's attention is
7 directed to that space and the lives in that space and the
8 other space or spaces that that person is responsible for
9 become secondary. And I don't think that the persons in those
10 other spaces deserve to be treated any less meticulously than
11 those in the space where the problem is occurring.

12 You know, it might sound reasonable on paper that we
13 can have a person that is near the entrance points to multiple
14 confined spaces and may be in contact with those people, but
15 if as they say it hits the fan and one of them all of a
16 sudden, we're doing a number of things. That person who's
17 responsible for them is summoning help is trying best he or
18 she can to provide what assistance can be provided and to take
19 the time to go to the others, or communicate with the other
20 spaces, and wait to give attention to the space that has a
21 problem, well, the others are safely evacuated and then begin
22 to work on the problem, I think is unrealistic. So I think
23 OSHA needs to take a hard look at the assignment of one
24 attendant to multiple spaces.

25 To rescue. Too many contractors rely on municipal

1 rescue squads. I see it all the time. And we've done a good
2 deal of training with municipal fire departments and the
3 impression seems to be out there in the construction community
4 that every fire rescue squad is trained to do, and equipped to
5 do, confined space rescue, or tunnel rescue. And that
6 certainly is not the case.

7 The scenario often times plays out where the
8 employer writes into a program that the response will be from
9 the local rescue squad, but the rescue squad is not even aware
10 of the work that the contractor is doing, is not aware of the
11 hazards specific to the sites where the contractor is. So in
12 responding, may or may not come equipped and trained to do a
13 proper rescue. And then we get into the scenario where you
14 have well-meaning people, even though they are dressed in
15 fireman suits, end up becoming victims as well.

16 So I think that we need to make sure that in the
17 rescue provisions that if the local rescue squad or paramedic
18 unit is to be designated as the rescue team, that the
19 contractor is required to communicate with that entity and to
20 make certain that that entity is aware of the hazards that
21 they may be facing in responding to a confined space rescue at
22 that site. I think in general it's just good practice at a
23 construction site to keep the local fire department, the local
24 rescue people aware of what's going on at the job site so that
25 they can most effectively respond if a worker is in trouble.

1 The next point that I would like to address was
2 touched on by my co-presenter, and that's the engulfment or
3 work in sewers. Living in Chicago, I experienced an amazing
4 thing a few years ago called the Great Chicago Flood. We had
5 had the Great Chicago Fire and then we had the Great Chicago
6 Flood. And I'm sure some of you heard about that. And,
7 basically, a tunnel system exists under the City of Chicago
8 that was built in the late 1800's, early 1900's to facilitate
9 moving coal around below the city so that it could be
10 delivered to the basements of all of those buildings in the
11 area we called the Loop. The inter-city of Chicago, or the
12 downtown Chicago.

13 And a contractor had, at some point, driven a pile
14 into, or near, one of the parts of this tunnel system. And
15 the concrete on the tunnel gave way and all of a sudden the
16 Chicago River was sharing space with the tunnel system. And I
17 remember waking up one morning and watching the news and the
18 merchandise mart in Chicago was reporting that there were fish
19 swimming around in its basement.

20 (Laughter)

21 And within a day or so, the entire downtown Chicago
22 area was evacuated because all of the basements in the loop
23 were under water.

24 Well, they called in the construction community to
25 try to rectify this situation and now we had, you know, what

1 is a situation analogous to a sewer system that's flooded with
2 water. So how do we repair it and pump it out? And I learned
3 quite a bit about some of the technologies that are out there.
4 I learned that using mattresses to plug the leak didn't work
5 well. And, in fact, a number of the technologies that were
6 used didn't work well. And, unfortunately, finally it was,
7 however, taken care of. And there were no injuries in the
8 repairing of the Great Chicago Flood.

9 But we did see some technologies that emerged that
10 might be useful for OSHA to look at. And those involve
11 inflatable, heavy duty rubber plugs that can be used to plug
12 some fairly large diameter spaces that would provide a measure
13 of safety for people in areas that could be isolated by them
14 to do work.

15 And I'm not suggesting that every sewer job would
16 require this, but I think that we might find that there are
17 certain sewer jobs where there might be a higher likelihood of
18 engulfment of water or sewage ending up in the same space
19 where the workers are. So that's a technology that we should
20 look at.

21 And I would be happy to assist OSHA, get in touch
22 with the people who, in fact, were responsible for trying to
23 fix the Great Chicago Flood, because I'm sure they have some
24 wonderful anecdotal evidence of what works and what doesn't
25 work.

1 Another point I would like to address is employee
2 participation. I would hope that employees would have an
3 active role in the development of permits, the observation of
4 testing and other requirements similar to some of the things
5 that we find in 1910.146 in the General Industry Confined
6 Space Program.

7 We talked about small businesses. That's one of the
8 concerns that we have. Of course, in developing any standard
9 nowadays, I said before, many of the business that are out
10 there working in the construction industry are small, they
11 have no safety professional, and actually, the number of CSPs
12 that work in the construction industry I think is relatively
13 small.

14 I know that there are a number of CSPs that are
15 colleagues that are in the construction division of both the
16 National Safety Council and ASSE. A number of those people
17 are actually interested in construction, but no necessarily
18 working for contractors. They may be working for insurance
19 companies that ensure contractors, insurance brokers and a
20 number of other ancillary occupations, but no necessarily
21 primarily responsible for employees of a particular
22 construction company.

23 Having said that, the Board of Certified Safety
24 Professionals has a couple of other designations that I see as
25 being much more practical and applicable to the discussion at

1 hand. And those would be the CHST, I think it's the
2 Construction Health and Safety Technician, and the STS, or the
3 Safety Trained Supervisor. Those designations are much more
4 achievable by the folks that would actually be out working
5 directly with confined space work.

6 I think we need to help small businesses with every
7 new OSHA standard or interim standard by creating materials
8 that are very user friendly. I don't think there are many
9 employers who would send an employee to a three-day or a four
10 or five-day confined space course at the OSHA training
11 institute.

12 I think that even the number of contractors on the
13 large contractors side that would do that may be fairly small.
14 So I think we need to be able to package critical information
15 and procedures in a way that it can be delivered concisely.
16 It should be delivered with a lot of printed material that can
17 help the employer put together a confined space program.

18 I think we should have sample permits and anything
19 else that we can create that would help the small employer to
20 deal with the new standard. I don't think that we should
21 weaken the standard though because small employers are
22 concerned about the cost of compliance.

23 FACILITATOR McLAHAN: Mr. Broderick, excuse me.

24 MR. BRODERICK: Yes.

25 FACILITATOR McLAHAN: How much more time do you

1 think you need?

2 MR. BRODERICK: Maybe five minutes.

3 FACILITATOR McLAHAN: Okay. All right.

4 MR. BRODERICK: Moving right along, we need to
5 clearly state the training requirements so that we understand
6 the qualification for all participants in the process,
7 especially with regard to doing the analysis of the space and
8 doing the testing.

9 Another point, and a final point, is let's get on
10 with this standard. It's been a long time in coming. I think
11 that we're going to have a good amount of consensus from both
12 the employer's side and the labor side in developing this
13 standard.

14 I don't think it's going to be anywhere near as
15 contentious as some of the other standards that we have seen,
16 especially in recent history. And I know that speaking for my
17 constituents, we will do whatever we can to assist the Agency
18 get on with it. Thank you.

19 FACILITATOR McLAHAN: Thank you. Are there any
20 questions or comments for Mr. Broderick?

21 (No response)

22 Okay. All right, we have our third speaker, Richard
23 Hackney. Would you come up to the stage, please, Mr. Hackney.
24 And Mr. Hackney is from the International Union of Painters
25 and Allied Trades.

1 consider, and what many others would look at, as a confined
2 space. That meets every definition of a confined space and
3 the atmospheres in them can change just as dramatically and
4 quickly as any tank or other type of vessel, which a man may
5 be working. These containments, like I say,, are of real
6 concern for the membership.

7 They are a real concern for me because, like I say,
8 I personally have been out there and I can tell you that
9 there's one way in and one way out most of the time. The
10 lighting sometimes can be zero to none. Once a man starts
11 blasting inside a containment with all this abrasive and spent
12 debris that is being cut loose, it takes a matter of minutes
13 and you can go from clear visibility to zero visibility.

14 This is kind of leading down to the next section,
15 basically, where it's talking about continuous air monitoring
16 and things. I'm going to try to get through this because,
17 like I say, I know everybody here has got a lot to do and I
18 really want to make sure these points are heard.

19 Very simply, when we go out there and we have men
20 working in a containment or in any situation like that, the
21 atmospheres can change so drastically and so quickly,
22 depending upon the abrasive that's being used, to the pressure
23 that's being used, to what is being removed. All these
24 factors come into play and determine what happens with the
25 atmosphere and how hazardous it can become and how quickly.

1 Not only can it be hazardous at that point, that's
2 one of the reasons continuous monitoring, I feel and most of
3 the members that I know would also feel, would be necessary.
4 But when we turn around and then we start applying coatings,
5 most of the coatings today are new. Some of them they say
6 have been totally revised. And what happens is the vapors
7 from many of these coatings become very explosive. You have a
8 lot of static. Without grounding this equipment, you can have
9 a lot of quick explosions.

10 I can tell you personally, I have lost two personal
11 friends to confined space. One was an explosion and the other
12 one was suffocation. And if continuous air monitoring had
13 been taking place, these two incidents would not have
14 happened. The first one had two 13-year-old kids. One was 13
15 and one was 14. And the other one had a boy in high school.

16 Now, to me that hits pretty serious business because
17 these kids' lives have been changed forever. And whereas
18 continuous air monitoring would have eliminated these hazards.
19 Other things would have as well. But by having continuous air
20 monitoring in these particular situations, where atmospheric
21 conditions can drastically change from minute to minute, than
22 these things have to be done. A person's life is worth more
23 than that.

24 I've seen in here also it's talking about cost
25 factors. Like I say, is it cost effective or does it save

1 labor. I'm not sure about how much labor it's going to save
2 by having continuous air monitoring, but I'm going to tell
3 you, it's going to save some lives. And to me that means more
4 than any of the labor cost factors that we can figure up.

5 The other things, like I say, you have on here
6 atmospheric conditions, which I was just basically talking
7 about. We have so many various types of hazards that are in
8 these different vessels we work in. You get into some of
9 these containments and you may have vapors and gases that come
10 from certain residues, lead paints, different type of coatings
11 that are on there, asbestos.

12 And, like I say, most of the time, unfortunately,
13 when we get into a job site, even though the jobs have been
14 predetermined what is on the inside of a tank or on a bridge,
15 once this work actually starts taking place, it's amazing how
16 things change.

17 It's amazing how they find different hazards that
18 were there that they didn't find. Different parts of a bridge
19 may have different types of coatings. All these things occur.
20 And then again, it goes back to what I was saying about the
21 confined space with the containment, we're containing these
22 things today and that is creating a lot of hazards.

23 Some of the other little things, like I say, if I
24 had my glasses, I could probably read. But I left -- I was in
25 a big hurry.

1 (Laughter)

2 But, I'm going to be in business now, you all might
3 be in big trouble. There, we can see all kinds of words now.

4 Early warning systems, okay. Early warning systems,
5 when it comes to engulfment, most of the time in plants we
6 have a lot of individuals, particularly, back where I'm from -
7 - and if you haven't figured out, that's not New York --
8 that's West Virginia. In that state, we have Carbide, DuPont,
9 FMC. At one time, it was considered the chemical center of
10 the world.

11 There are so many plants with situations where
12 engulfment can be a very quick and serious problem. Most of
13 our guys are good, particularly in those facilities. Getting
14 things blanked out, locked out and tagged out. Like I say, I
15 don't think that our craft particularly has had a lot of
16 problem with that because of that particular situation I was
17 just talking about. We watch it real close on that one.

18 Employers, most generally, in those facilities don't
19 have a lot of option because of the plant facility itself have
20 particular requirements that have to be met. And it's
21 unfortunate the rest of the world doesn't do the same thing.
22 And so if we can enforce this and making sure that if there
23 was a chance of engulfment, that these things are blanks are
24 put in, locked out, tagged out. Make sure that these things
25 are in affect. I don't thing we'll have near the problem on

1 outside facilities as we do have in some situations.

2 All right and the other little things, attendance.

3 Now this is another one I read and had to shake my head on
4 this one folks when I read this one. You go talking about
5 having a man monitor in more than one confined space at a
6 time, you're asking for trouble. You're asking for trouble
7 very quickly. Because it's like I told you, most of the
8 situations that happen, they don't happen over a period of
9 hours or even 10, 15 minutes. When it happens it happens now.

10 A man can be overcome by different types of vapors,
11 different type of hazards so quick and it's not more than a
12 minute or two. A man can be totally unconscious and be dead
13 within a matter of minutes. There's no way that there should
14 ever be a situation which we turn loose any kind of reg. that
15 states that an attendant can watch more than one confined
16 space at a time. Because I'm going to tell you,
17 unfortunately, God bless them, the employers will do just
18 that.

19 Instead of having two men watching two different
20 confined spaces, they will use that one because it saves \$5.00
21 or whatever. And, again, it goes right back to what I'm
22 talking about. You're going to lose lives and it shouldn't
23 happen that way.

24 But like I say, I think that's most of the little
25 topics we had there. I could go on for a long time about this

1 subject, but I told the young lady I'd go 10 or 15 minutes and
2 I figure I'll give you all a shot at asking questions if you
3 want to for the last few.

4 FACILITATOR McLAHAN: Okay, are there any questions
5 for Mr. Hackney?

6 (No response)

7 Okay, any questions for anyone else on the panel?
8 Or our group of speakers?

9 (No response)

10 All right, let's open this up. And thank you very
11 much. And you all are free to stay there if you're
12 comfortable or you can go down into the audience, whichever
13 you prefer. Let's open this up and see if there are anything
14 that any of you out in the audience would like to add,
15 particularly given attention to the issues that OSHA has
16 raised. We have the poster here to kind of give you memory
17 joggers of what our concerns are. Yes, yes sir?

18 MR. HERZOG: Hi, I'm John Herzog with Air
19 Conditioning Contractors of America. And we kind of cross
20 over from construction to maintenance to general industry.
21 And so it's interesting, the work that goes involved and the
22 construction, and putting in of air conditioning, which is
23 heating as well as cooling units, it generally done in
24 confined spaces, with the exception of heat pumps, which are
25 on the exterior. Most of our people work in confined spaces

1 all the time. And this is really a challenge. And our safety
2 programs, generally, are aimed at trying to make them aware of
3 the difficulties that they're going to be running into and how
4 to watch out for such things as heat prostration and heat
5 exhaustion. Which is really the -- probably the primary
6 concern that we would have in addition to working with various
7 refrigerants.

8 The heat exhaustion situation is that you are
9 generally in crawl spaces and, obviously, the summer for air
10 conditioning units. Whether there's lighting or not is not
11 really a factor. This is just generally servicing the
12 equipment, but also when you're installing it which is part of
13 the subcontracting aspect of construction, they have to work
14 in these spaces where it could be during the summer and it's
15 going to be very hot. So, best practices are things that we
16 look at and try and share with them as much as possible.

17 Our members range from the very small mom and pop
18 type operations to the very large commercial. We represent
19 union and non-union contractors. We have approximately 9,000
20 around the country through 68 chapters. So that we have a
21 good network. And my hope would be that OSHA wants the
22 standard development -- would be working with us and others to
23 help get the information out. What new practices, best
24 practices, can be involved in making it a safer situation.

25 For example, for working in the heat area they have

1 air cool vests so that you put those on. We teach them about
2 the signs to look for. Because, generally, they're working on
3 their own. We don't have the ability to have somebody else
4 coming in and monitoring them if it's in somebody's home or if
5 it's a builder, maybe there are other construction workers
6 around. But, generally, especially in servicing, the
7 technician is on his own.

8 So you've got to recognize those conditions and, you
9 know, drink obviously plenty of water, you know, to take
10 breaks, but when it's 117 degrees like it is in Arizona, these
11 guys working on rooftops or in crawl spaces, that's pretty
12 hard work. That might be a reason why we have a shortage of
13 workers in our industry.

14 The other thing that you should be aware of is that
15 we do work with refrigerants. And some of these that could be
16 vented in confined spaces are obviously hazardous. We work
17 with ammonia as well as CFCs and HCFCs. And those vary as far
18 as one of their hazards. We, obviously, encourage them to use
19 breathing apparatuses in that case.

20 One of the things that -- I don't know if you can
21 get involved with it, but you should be aware of it, EPA is
22 once again declared that Houston does not meet their clean air
23 quality standards. So the local state EPA and their
24 equivalent of it is requiring some steps taken to try and
25 bring them into compliance. One of which affects us.

1 Because they're talking about putting a catalyst on
2 all air conditioning units. Well, this is going to drive the
3 cost up considerably. This is for new as well as, eventually,
4 they'll get to existing units. But the concern is that there
5 is a slurry that you put on which is the catalyst on the
6 coils. There's only one manufacturer. Nobody knows what the
7 hazards of that slurry could be. It could be poisonous and
8 yet they're mushing ahead with this.

9 And they had a hearing a couple weeks ago. And this
10 is one of the worrrys that we and others are trying to bring up
11 that this is something that should be looked at. So maybe
12 OSHA will say, yes, we better get involved with this and work
13 with our fellow agency and make sure that they realize that
14 they could be harming residents of those buildings, not just
15 the construction people that are servicing or putting them in.

16 Now, other examples of confined spaces. We work in
17 walk-in coolers and freezers. That's something that you
18 should be aware of. And installing as well as servicing.
19 Obviously, you see those a lot in grocery stores.

20 Generally, not an issue for multiple sites for us
21 for spaces because we're generally just working on on
22 servicing one or installing one. So that wouldn't be an
23 issue.

24 I think that's about all I wanted to bring up. Oh,
25 yes. One other thing that we're working which, again, is

1 perhaps best practices type of thing. Because the builders
2 and the architects do not want to intrude upon living space,
3 they usually put all the air handling units in out of the way
4 spaces.

5 So this means that most of them are in the attics.
6 One of the things that we're trying to work with especially in
7 Florida with the building codes is to get them out of the
8 attics so that they're in an area that is easier to get at and
9 service. Which would not put people at as much hazard as they
10 are now. So working with the building codes is another area
11 that you may want to investigate.

12 FACILITATOR McLAHAN: Okay. Thank you Mr. Herzog.
13 Is there anyone else in the group who would like to speak or
14 has a question, comment?

15 (No response)

16 All right, let's walk through the issues and make
17 sure that everyone has said everything that's on his or her
18 mind.

19 We were looking for examples of confined space in
20 construction. Can any of you think of any that may be unique
21 or something that you want to make sure that OSHA remembers?
22 Yes, sir?

23 MR. : Forms.

24 FACILITATOR McLAHAN: I beg your pardon?

25 MR. : Concrete forms.

1 FACILITATOR McLAHAN: Concrete forms. Okay. Are
2 there any other confined spaces that we might not think of and
3 that you think we need to be aware of? Yes.

4 MS. : Tunnels.

5 FACILITATOR McLAHAN: Excuse me, I can't hear you.
6 Maybe if you stand.

7 MS. : Tunnels.

8 FACILITATOR McLAHAN: Tunnels, okay. Any others?

9 (No response)

10 Okay, let's move on to engulfment hazards. All of
11 you received the description of our issues and know the
12 questions that we asked. Just ask you to run those over in
13 your mind and is there anything that you think we need to add
14 to that?

15 (No response)

16 And just because we're walking through this doesn't
17 mean we can't go back to something else. Because we're
18 interested in gathering all the information that you have to
19 share with us. So if you, as we move down the list, if you
20 think of something that's back in number one, just raise your
21 hand and we can add that.

22 Atmospheric hazards? Anything to add there? Yes.

23 MS. ABRAMS: I would just note that OSHA, perhaps,
24 should talk to some of the folks over at MSHA, although they
25 do not have a confined space standard, there have been some

1 improvements made in the area of continuous monitoring. For
2 example, to monitor methane in underground coal mines and some
3 of the gassy and metal and non-metal mines.

4 There have also been some improved technology put
5 into use in terms of extended probes that can be as long as 40
6 feet and can keep the individual out of harms way while
7 measuring for oxygen depletion or enrichment. And some of
8 those technologies I would think would be easily transferrable
9 to the construction industry.

10 FACILITATOR McLAHAN: Okay, thank you. Anything
11 else in the area of atmospheric hazards?

12 (No response)

13 Okay, let's move on to the next one. How-to for
14 small business. Is there anyone here that would like to add
15 something that we should consider, special concerns of small
16 business?

17 (No response)

18 All right. Yes, sir?

19 MR. CASTELL: I have --- through my experience --
20 speak in here?

21 FACILITATOR McLAHAN: Please.

22 MR. CASTELL: My name is Richard Castell and I'm a
23 self-employed trainer. And I also do safety consulting on
24 construction sites. Right now, I'm working at a
25 remanufactured drinking water facility. Probably known as a

1 waste water treatment plant. And I noticed that a lot of
2 small businesses get small contracts. And they have
3 everything but a clue.

4 And they have almost no voice because most of the
5 people that work there don't speak English. And so if OSHA's
6 in the process of putting a standard together, it could at
7 least make some of the extra material or training material bi-
8 lingual. That would be an enormous help in plain language.

9 FACILITATOR McLAHAN: Okay. Thank you. Anything
10 else to add in the area of small business concerns?

11 MR. HACKNEY: Well, I'd like to say one thing. And
12 that's basically one of the biggest problems because we do
13 have a large number of our employers that are classified as
14 small employers. A large percentage of painting contractors
15 generally work six or less employees. So what happens is most
16 of your small employers you find out they have very limited or
17 little or down to none when it comes to training of their
18 workers, at all.

19 When the gentleman brung up that point back there,
20 you've got the --- that you're of the hispanic situation, but
21 you've also got to realize that most of these small employers
22 don't do any training to start with. Because there are line
23 items can't afford it because of the way they're bidding the
24 work.

25 FACILITATOR McLAHAN: Okay, thank you. Yes, sir.

1 MR. : I represent the sheet metal and air
2 conditioning contractors. We represent about 4,500 union
3 contractors. And as Mr. Broderick stated earlier, members of
4 our association have the ability to come to me and our various
5 chapters to request information on new standards and things
6 like that. However, there are thousands of contractors out
7 there who are not represented by an association and their
8 workers aren't represented by a union.

9 I would suggest that OSHA spend a lot of time in the
10 development of their compliance materials and once this
11 standard is complete, to assure that the small employers
12 particularly have a good understanding of what's required by
13 the standard and that they also do provide the information to
14 their compliance assistance people. And get these people
15 motivated and activated out there into the business community
16 to help the employers to understand just exactly what they
17 need to do and how to better protect their employees.

18 FACILITATOR McLAHAN: Okay. Thank you.

19 MR. POTTS: I'm David Potts, I'm the Safety Director
20 of the National Electrical Contractors Association. I echo
21 Tom's and other people's feelings that we need to move forward
22 with this standard. It's a problem there that we've neglected
23 since the development of the original standards. We need
24 something in place for all to be able to identify with and
25 utilize on the job sites.

1 In regards to training, we need to look at it from
2 two perspectives. It's going to be the small contractor, or
3 the contractor, that rarely moves into a compliance space
4 environment. In that case, he needs all the information now
5 because he may not have been aware in the specifications that
6 he was going to move in this type of environment. It's going
7 to be a high cost item and he needs to be able to address it
8 as quickly as possible.

9 The other side is the affordability of training.
10 For those people that do a lot of this type of work. And that
11 may be the certification side of the coin. OSHA in developing
12 their training materials need to look at both sides. That
13 which the contractor needs initially in order to perform his
14 work quickly, but to the standard. And then what system could
15 be put in place where if an employee, especially in the union
16 environment, or we have mentioned in the hispanic environment,
17 which tends to be very transient too, can receive that
18 training and take it elsewhere int heir career, performance of
19 their career and their duties.

20 FACILITATOR McLAHAN: Okay, thank you. Any other
21 questions or comments in the area of small business? Well,
22 we're down to attended monitoring. Okay, let's move to
23 attendant monitoring. Anything else? Yes, sir?

24 MR. : Day-to-day experience, I find that
25 monitoring now at best is weak. And frequently people who are

1 the monitor really don't have a good sense of what's going on
2 down below within the tanks in the tunnels. And to further
3 dilute that by having them watch more than one would just -- I
4 think we need to know how to do it right before we start
5 trying to make it less. But we're not doing it right now on a
6 day-to-day basis.

7 FACILITATOR McLAHAN: Okay. Thank you. Anyone
8 else? Yes?

9 MR. BRODERICK: If we're running out of comments, I
10 don't know about everyone else in here, but I would kind of
11 like to see where OSHA is right now with the confined space
12 standard. I know that there is an ACOSH, or there was an
13 ACOSH, Confined Space Workgroup, that worked on a draft a
14 couple of years ago. And I'm just wondering where the agency
15 is in terms of promulgation of the standard?

16 MR. CONNELL: Right, ACOSH did, in fact, recommend a
17 draft. They commented on. We were working pretty closely
18 with ACOSH and we looked at their draft, they looked at
19 revisions that we had made. There are actually several drafts
20 that went back and forth. At this point, we, as Mr. Jeffress
21 indicated earlier, we are scheduled to issue a proposed rule
22 in July of 2001. Whatever we issue is going to have to be
23 written in plain language or under that mandate and we take
24 that very seriously.

25 We have looked closely at the general industry

1 standard when we were working with ACOSH. So the point of the
2 process that we're in is, you know, we are trying to get a
3 better feel at this point. Which is why we're having the
4 stakeholder meetings, a better feel for the particular needs
5 of the construction industry. So then in next year we'll
6 publish a proposal. At that point, we will have hearings,
7 public hearings, so there will be another opportunity for the
8 public to comment.

9 And, of course, at that point, there will be a
10 document, a specific document for the public to be focused on
11 and give us particular comments on that. We will then analyze
12 the public record and issue a final rule subsequent to that.

13 FACILITATOR McLAHAN: Okay. Any other questions,
14 comments?

15 (No response)

16 Well, I think we're coming down to the end. When we
17 have our coffee break, we'll break for sure. For good.

18 (Laughter)

19 Okay. Well, thank you all very much. OSHA is
20 grateful for you, grateful to you, for taking the time to come
21 out and share with us your interests and your concerns. And
22 we really appreciate your attendance. Thank you.

23 (Whereupon, the meeting was adjourned at 9:50 a.m.)
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25