

NFPA Standards Council Meeting
Preliminary Hearings/Appeals Schedule

DOUBLETREE SURFCOMBER HOTEL
1717 Collins Avenue
Miami, Florida 33139

Tuesday, March 3, 2009 ORIGINAL

ITEM ONE:

1:00 - Agenda Item Number: 09-3-6-d

Appellant: J. Buss, Sure Signal Products

Appeal: TIA No. 946, NFPA, 72-2007 Edition

Document (& Section): NFPA 72, 11.3.5.3

ITEM TWO:

1:30 - Agenda Item Number: 09-3-5-d

Appellant: W. Robinson, Prince George's County Govt.

Appeal: Issue TIA No. 936, NFPA 70-2008 Edition

Document (& Section): NFPA 70, 680.25

PROCEEDINGS HELD BEFORE THE STANDARDS COUNCIL MEMBERS

1 arrive at a decision today. That has to be
2 finished up, written up and then ultimately issued.
3 So it could range anywhere from a week to -- we've
4 had decisions that have taken months.

5 So, you know, I'm not going to try to pin it
6 down to tell you a week from now, you'll have a
7 decision. If I do, I'll be wrong out of it. So
8 you just kind of have to bear with us. I know both
9 Council and staff work as rapidly as we can to get
10 those out.

11 MR. BUSS: Thank you very much.

12 MR. PAULEY: With that, we are going to stay
13 on the record and we're going to move directly into
14 the second hearing. So gentlemen on TIA 936, if
15 you'd like to move to the end of the table. I am
16 going to take the opportunity to have anyone that
17 was not in the room at the time when we did the
18 introductions, if you would please introduce
19 yourself at this point.

20 MR. OKLEY: George Okley, Senior Consultant,
21 Bustman Division Cooper Industries.

22 MS. FULLER: Linda Fuller, NFPA staff.

23 MR. PAULEY: So we are now moving to agenda
24 item 09-3-5d. This is an appeal on the, or for the
25 issuance of TIA number 936, that is on NFPA 70.

1 Gentleman if you would just very quickly for the
2 record reintroduce yourselves for this particular
3 hearing.

4 MR. CLARK: Absolutely. I'm Rubin Clark.

5 MR. ROBINSON: I'm Wayne Robinson.

6 MR. PAULEY: And are there any statements from
7 Council members? Mr. Carpenter?

8 MR. CARPENTER: James Carpenter, member of
9 Council. I'd like to note too for the record that
10 I am a member of the National Code Technical
11 Correlating Committee. And as a National
12 Correlating Committee member I participated in
13 consideration and voting on the issues. I have,
14 therefore, reviewed my obligation under the Guide
15 for Conduct of Participants in the NFPA process,
16 particularly section 3.5(d) of the Guide, to
17 consider whether there is any reason for me to
18 recuse myself from consideration of this appeal.

19 I have concluded that I do not have any views
20 that are, or would appear to be, fixed concerning
21 the issues, and I am fully able to give open and
22 fair consideration to this appeal. For the record,
23 therefore, I have considered the matter, and
24 believe that I can fully, fairly and impartially
25 fulfill my role as a Council member on this appeal.

1 MR. PAULEY: Thank you. Gentlemen we will do
2 the same essentially as the previous hearing.
3 You'll have about ten minutes to make your
4 presentation and statements to the Council. I'll
5 then open it up to question from Council members
6 and then give you an opportunity for any closing
7 remarks. So the floor is yours.

8 MR. CLARK: Good afternoon. May I first
9 commend you on selecting Miami as a place to meet
10 versus Boston, this week. Smart move and I hope
11 you will make another smart move by issuing TIA
12 936. I am NFPA member 2556455 and owner of
13 Consolidating Manufacturing International. I'm one
14 of three manufacturers of ground mats and bonding
15 grids. Erico (phonetic) and Harter Lightning
16 Protection also make these products.

17 There's a huge misconception that these copper
18 binding grids add costs to the construction of a
19 swimming pool. Actually to the contrary, they
20 reduce costs. Because the installed cost of a
21 copper binding grid is less than the installed cost
22 of rebar, yet some pool builders are using this
23 alternate means with a single wire now, as a
24 loophole to further reduce their costs and
25 eliminate any equi-potential protection they have

1 in the pool decks.

2 Old timers will come up to me at the trade
3 show booth and say, I've been building pools for
4 thirty years, never had a problem. But if you're
5 still building pools the way you did thirty years
6 ago with rebar reinforcement in the deck, you're
7 not going to have any problem. What's changing
8 today is people are pouring decks with fibercrete,
9 no rebar reinforcement. A lot of people think it's
10 stronger. No metal in the deck to make an
11 equi-potential plane. People utilize the pavers.
12 So that's the reason for the equi-potential binding
13 grid in the national electrical code.

14 Now working further to reduce the costs of
15 these binding grids -- because when you make ground
16 mats the variations are too many. You can't
17 automate the production. But the copper binding
18 grids for pools are already made in 2-foot wide and
19 3-foot wide configurations, number eight wire,
20 twelve by twelve. So I invested in automation and
21 I've brought the cost down to one third and one
22 half of what it was when the code was originally
23 adopted.

24 Now having said that, and this is a very
25 important point to consider today, that we're not

1 talking about the means to obtain equi-potential
2 binding in pool decks, but an alternate means.
3 That brings me to the next point I'm here to speak
4 on, the test that Neetrack (phonetic) conducted.
5 The licensed PE, who designed the tests and
6 conducted the test, Mr. Sashee Patel (phonetic).
7 He's not able to be here today due to health
8 reasons. He's having surgery tomorrow. So I told
9 him I would try to answer any questions that you
10 might have about the test.

11 When I was first notified that we were going
12 with the 2008 version versus the 2005 version of an
13 alternate means of binding the pool decks, I wanted
14 to find out, well what's causing the change? So I
15 called UL, spoke with Gary Siggins (phonetic). He
16 said, well there's no tests. I said, can you do a
17 test? No, we don't have the methods for doing the
18 test. I called your office, said, there was a
19 test, there has to be a test to substantiate the
20 code change.

21 So I was sent the test but it was another test
22 from Neetrack on a completely different subject
23 matter. It was bonding the water in a pool with a
24 none conductive shell. Completely irrelevant
25 topic, completely irrelevant subject matter that

1 didn't apply. Somebody took one fine point in a
2 statement in that test and extrapolated it. And we
3 find now erroneously so, that they concluded a
4 single wire will provide adequate protection for
5 people if you bond the deck.

6 This test was a Neetrack test. The same
7 person who conducted the water bonding test,
8 conducted the test in a pool environment. Mr.
9 Patel said, what do you want to do? I said, I want
10 to compare the two different methods that the NEC
11 has said is an alternate means to accomplish
12 equi-potential binding of a pool deck. He said,
13 okay.

14 He designed the test, conducted the test,
15 there were licensed PEs there and he wrote the
16 conclusion. The conclusion was that a binding grid
17 by copper, like rebar, provides adequate protection
18 of a person standing on the pool deck, but the
19 single wire does not. Some comments were made and
20 there was no baseline to test versus nothing, or
21 versus rebar. Other comments were made that the
22 way some of the percentages were calculated was
23 intended to show a greater improvement of a copper
24 grid over a single wire.

25 Now while those comments may be factually

1 true, they're completely irrelevant because again,
2 we were testing one method per the NEC, or the
3 other method per the NEC. So in fact the
4 difference between the two if you read and I'll
5 just summarize quickly, the worst performance of
6 the binding grid performed better than the best
7 performance of a single wire. In fact forty-eight
8 out of fifty-four readings of the binding grid were
9 under three volts of straight voltage on the pool
10 deck.

11 All fifty-four points had five volts or over
12 with a single wire. Half of them were in double
13 digits and one was over twenty-four volts. Now all
14 of this was with household current, attached to an
15 iron pin, 160 feet away from the pool. So everyone
16 thought the single wire would perform, but that was
17 based on again, a misconception.

18 Now a few years ago a Senator's daughter was
19 killed because a pool drain sucked her close. The
20 Federal government comes out with the Virginia
21 Graham Baker Act because the pool plumbers couldn't
22 regulate themselves when building pools. Most pool
23 builders do a fantastic job, but the pool industry
24 is a big industry. And we can't have any problems,
25 negative publicity and we certainly don't want

1 people getting hurt.

2 So I'm asking you today to let's not have the
3 federal law come in when an elderly person with a
4 pace maker is walking on a deck or a youngster
5 rehabilitating, swimming in the pool, experiences
6 stray current, and there's an accident, somebody
7 dies or gets badly injured.

8 The final point I want to make is on
9 procedures. The submitted -- the TIA has submitted
10 virtually the same verbiage as the 2011 code cycle
11 and it has great support for that. In fact the
12 technical committee voted overwhelmingly to support
13 the technical merits and with the agreement of the
14 emergency nature. In fact the code making chair
15 agreed with both of these. So I can't speak for
16 the code making panel but it certainly -- or one
17 can conclude that the 2011 cycle, the single wire
18 alternate means is going away.

19 So I ask you, let's stay consistent. Why
20 allow states, large pool states like California who
21 are on the '05 code cycle now requiring a grid. If
22 we don't issue the TIA, 2008 comes around, they
23 don't require the grid for three years. 2011 comes
24 around, it's put back in and they're going to
25 require the grid. It's mass confusion. There's

1 already too much confusion on here. That's what
2 the TIA is designed to do is to stay consistent to
3 eliminate that.

4 The further procedural fact is that, the
5 negative votes, I think we should allow the voters
6 to re-decide or possibly eliminate theirs because
7 an example, Mr. West's negative substantiation was
8 based that he erroneously stated the test was
9 commissioned by the sole manufacturer and implied
10 impropriety. Well that's false because I just told
11 you that two other large corporations also
12 manufacturer this product. His reason for
13 disagreeing with the emergency nature was that he
14 said he didn't want to rush into the possibility
15 that I implied an improper agenda and there was no
16 danger. I think in Mr. Robinson's written appeal
17 to you, he's also proven that to be false.

18 Another disagreement with the emergency
19 nature, who also agreed with the technical merits,
20 Mr. Krible (phonetic), said there was no increase
21 costs or danger to the public and that wasn't
22 demonstrated. But again Mr. Robinson has proven
23 that false. Another negative vote was by
24 Mr. Maldonado, contained five points. Mr.
25 Robinson had refuted them all and I want to say one

1 here today and I quote, the grid under the deck was
2 a large source of complaint because of the costs.
3 The contractors were very pleased to be able to use
4 a ground ring. Well sure they'd be pleased to
5 use -- not have to use GFCI protection, not have to
6 install fencing, a single main drain, et cetera, et
7 cetera.

8 They're trying to use alternate means as a
9 loophole to reduce the cost and not provide any
10 adequate equi-potential binding. And the final
11 negative vote was by Mr. Roth, three pages but in
12 his first paragraph of technical substance, he
13 actually agrees with the purpose of this TIA by
14 stating that a conductive pool deck requires a grid
15 but other perimeter surfaces do not. Again, this
16 exemplifies the emergency nature because the rest
17 of the three pages are fine points, more so on
18 style versus substance, but people don't understand
19 the code like he does.

20 The State of New Jersey right now is allowing
21 a single wire in any pool on any deck regardless of
22 pool shell construction. Now we can use a single
23 wire so we don't have to use equi-potential
24 binding.

25 MR. PAULEY: You've got about a minute left.

1 MR. CLARK: Okay. That's basically my points
2 there. I'd just like to say again, let's stay
3 consistent. Let's close the loophole and again
4 it's the alternative means, it's not the means,
5 it's the alternative means that we're asking to
6 change here.

7 MR. PAULEY: Mr. Robinson, did you have
8 anything you wanted to add in that last minute or
9 are you here to answer questions?

10 MR. ROBINSON: Well I would give him my last
11 minute if that's what's left because he's doing
12 such a good job. I just want to let you know I'm
13 just an electrician, I'm an inspector. And my
14 whole issue is that when the 2008 application came
15 out, I went to Boston and submitted a knitman
16 trying to say, look let's hang on to 68026C, which
17 had all the requirements for equi-potential binding
18 until we get all this clarified because there's so
19 much issues with utilities and actually hopefully,
20 you received these two letters from both Georgia
21 Power of people being shocked on pool decks. One
22 of Mr. Roths comments was, there's no record of
23 anybody getting hurt.

24 Well I'm going to tell you there's people
25 getting injured all over the country. But the

1 utilities are the ones being contacted to mitigate
2 these issues and it may not even be their issue.
3 But since Harmonics, we're got multiple granite
4 neutral systems that we didn't have fifty years
5 ago. Just look how many pad-mouth transformers
6 there are in the community now. Just take a look
7 at that, a lot of neutral current circulating.

8 So without this equi-potential binding grids,
9 until we can get to the bottom of where the stray
10 burns -- where are they going go? You've got pool
11 decks -- and again, the University of Michigan, the
12 University of Wisconsin, the University of
13 Minnesota, those did studies on agricultural areas
14 under 547. It proves that equi-potential planes
15 worked in agricultural areas and yet, we're
16 thinking -- and even in my TIA, we give more
17 protection for agricultural animals than we do for
18 humans on a pool deck.

19 Now I don't know what else to say other than I
20 hope that you have copies -- I have also an e-mail
21 from Martin Page from Georgia Power. Georgia Power
22 is coming out with their own set of requirements
23 now because they're having problems with people
24 being injured on pool decks. They going through
25 driving ground rods every ten feet, and bonding

1 these wires together to establish equi-potential
2 plane. So there's so much misconception of when
3 you can use a single wire versus a grid and I'm
4 trying to eliminate that until we get these issues
5 resolved.

6 But that's what my knitman was about and
7 that's what my TIA is about. It's about safety. I
8 have no agenda. I came down here to support this
9 TIA because I think it's important for safety
10 issues. In my area, where I work in Maryland,
11 we're not going to allow the single conductors.
12 There's no proof with -- exactly with the Neetrack
13 test, I mean the step potential, there's eighteen
14 volts between a three-foot step. This is on a dry
15 pool deck gentlemen and ladies. So I mean, this
16 test is a legitimate test. There's data that a
17 single conductor is going to the safety that we
18 need for the public.

19 MR. PAULEY: Thank you, Mr. Robinson. Let me
20 open it up now to questions from members of
21 Council. Mr. Clary?

22 MR. CLARY: Probably to Mr. Robinson or
23 Mr. Clark, on the test and I did read the report, I
24 notice though they only did it at one pool site.
25 I'm just wondering, do you think that's still a

1 valid test as opposed to doing it at a couple of
2 sites to see if the results are similar?

3 MR. CLARK: I feel soil conditions may have an
4 impact and I'm not certain what they were but and I
5 do remember there being a requirement that
6 everybody on site had insulated sole shoes. And
7 Mr. Patel who also conducted the test for binding
8 the pool water was surprised that so much of the
9 current showed up with a single wire. And again
10 this was 160 feet away on iron pin, he dialed down
11 the household current to I think ninety-five volts
12 if I remember correctly. So I don't know exactly
13 the answer to your question.

14 MR. ROBINSON: At \$45,000 a test, I don't --
15 this man is the only man I know who took it upon
16 himself to get a test down and there's been no
17 substantiation for any technical change to the
18 code. There was no test and they changed the code
19 without substantiation.

20 MR. CLARY: A follow up question. You
21 indicated at the beginning of your presentation
22 that there's you and two other manufacturers that
23 make this particular --

24 MR. CLARK: Correct.

25 MR. CLARY: Are they as concerned as you are

1 with what's going on in the NEC, that it appears
2 their product cannot -- also is it your contention
3 that if this TIA is not accepted that your
4 particular product is basically sort of out in the
5 cold and can't be used?

6 MR. CLARK: The answer to the last question is
7 partially true. There are several inspectors
8 across the country that said we don't care what the
9 '08 is, we're going to require a bonding grid of
10 some sort, rebar or copper. So out in the cold,
11 not totally, but, yes it would be for sure.

12 The answer to your first question is, I don't
13 think they're concerned at all because they don't
14 service the pool industry. It's a very small niche
15 to them, I'm sure you're all familiar with Erico.
16 Ground rods, they're the world's largest producer
17 of ground rods. In fact I do private labeling
18 products, some of my ground binding products. I
19 made some products that they slide the ground rods
20 on and the coding process to make the rods.

21 Harter Lightning protection, it's a very small
22 portion for them because their sales are so much
23 larger than mine. It's probably not worth they're
24 time, where it is worth my time.

25 THE WITNESS: Okay. Thank you.

1 MR. PAULEY: Additional questions. Jim Pauly
2 chair of Council. I guess I want to make sure for
3 the record. I think Mr. Clark, pretty clearly
4 understanding that you make the product that we're
5 talking about being involved in the ground mat and
6 I want to make sure for the record, I guess, Mr.
7 Robinson had indicated you're an inspector. You
8 have no commercial affiliation whatsoever with any
9 of the products involved in this or any of the
10 materials involved?

11 MR. ROBINSON: No, I've been an inspector for
12 twenty-four years. That's what I do for a living.

13 MR. PAULEY: Thank you.

14 MS. SPENCER: Can I have a follow up to that?

15 MR. PAULEY: Sure.

16 MS. SPENCER: Amy Spencer, Council secretary.
17 Do you have any affiliation of any kind of a
18 manufacturer of devices, safety devices involved
19 with the NEC.

20 MR. ROBINSON: I do in India, yes.

21 MS. SPENCER: Could you elaborate on that?

22 MR. ROBINSON: I manufacturer a product that I
23 invented, a ground electro connection. And I have
24 a manufacturer that manufacturers that product.

25 MS. SPENCER: And that's completely unrelated

1 to this here?

2 MR. ROBINSON: It has no bearing on this
3 whatsoever.

4 MR. PAULEY: Mr. Gerdes, go ahead.

5 MR. GERDES: Ralph Gerdes, Council member.
6 You indicated in the current cycle the technical
7 committee has voted on this issue and accepted
8 this.

9 MR. CLARK: No, what I was saying was in the
10 TIA, I looked at the reasons for the negative votes
11 and I looked at the votes from the code making
12 panel and they voted six to three to approve it.
13 And my comment was it looked like there were a
14 couple of these people either didn't have access to
15 the specific incidents that Mr. Robinson had issues
16 or maybe misunderstood something. That's why I was
17 saying if you just eliminate one or change their
18 vote, like I was saying one person gave two
19 reasons, and both of those reasons actually the
20 opposite is true. So logically speaking his vote
21 would have to turn to be true. And would give even
22 more than seventy-five percent vote.

23 MR. GERDES: To follow up, then. Have either
24 one of you gentlemen submitted a public proposal to
25 the committee for consideration?

1 MR. ROBINSON: I've submit -- but I did submit
2 this, that's exactly what I did, the TIA.

3 MR. CLARK: For 2011 code cycle.

4 MR. ROBINSON: It's going to be a major issue
5 if we go from using a single wire and go back to
6 the grid system. If that happens because you're
7 going to have areas -- inspectors are already
8 confused over this alternate means. We didn't have
9 these alternate means until 2008, actually 2005.

10 It incorporated the binding grid, where the
11 2008 incorporates a single method. And the
12 language says if structural steel is available.
13 Now what does that mean? If I do a pool that has
14 structural steel in it, it's a conductive pool,
15 then I have available structural. Now are they
16 talking about perimeter services structural steel?
17 Or are we talking about structural steel? When is
18 structural steel not available, when they pour
19 fibercrete decks. But I could pour fibercrete deck
20 with a structural pool, structure reinforced steel
21 pool.

22 So I have available, but since I have
23 fibercrete and now what's going to happen is I
24 don't have grid, I have a single wire in the
25 fibercrete, but I'm going to have different sub

1 potentials between a structural steel pool and a
2 fibercrete pool. So I'm even going to have more
3 potential of injury in that application, because
4 it's such a difference.

5 MR. CLARK: And that was one of my points I
6 made was that Mr. Roth had elaborated extensively
7 on this and again, the state of New Jersey said you
8 can use a single wire on the deck regardless of
9 pool shell construction. And Mr. Roth was saying
10 several times, quite elaborately, that's not the
11 intention, et cetera, et cetera. And again, my
12 point was let's make it consistent and easy because
13 they're not understanding what he understands.

14 MR. PAULEY: Jim Pauley, chair of Council.
15 Just a follow up on Mr. Gerdes question.
16 Mr. Robinson you indicated you made this exact
17 proposal to the 2011 NEC.

18 MR. ROBINSON: Yes, sir.

19 MR. PAULEY: Did you also make a presentation
20 to the committee on this at all or anything?

21 MR. ROBINSON: No.

22 MR. PAULEY: Just the proposal was submitted?

23 MR. ROBINSON: Travel was coming out of my
24 pocket and I'm just a civil servant, it's tough to
25 come to Miami.

1 MR. PAULEY: I guess the other question, again
2 Jim Pauly, chair of Council. The other question I
3 had and I think Mr. Robinson you had the
4 information in your hands about the documentation
5 that that was there, or claims of folks being --
6 electrical shock occurring on pool decks.

7 MR. ROBINSON: I submitted it to the chair,
8 you're welcome to have this.

9 MR. PAULEY: I guess my question was just from
10 those, do you know in those particular items, were
11 those pool decks that had no bonding grid installed
12 at all.

13 MR. ROBINSON: There's a couple of different
14 scenarios. There's three or four issues with the
15 one in Mississippi. Mississippi is tearing up pool
16 decks because a single conductor does not provide
17 adequate protection. They're using mesh and if the
18 mesh is not tied to the number eight bond wire
19 around the pool they get a difference of potential.

20 Actually I'm kind of concerned that code
21 making panel 17 doesn't know about these issues in
22 this country. Where just as an individual I can go
23 out and start contacting people that I've met over
24 years of going to II sessions that people are
25 getting injured.

1 The power companies are having a terrible time
2 with this. Because of litigation, they can't
3 really come forward but yet they're having their
4 own rules and regulations written to protect the
5 public over the national electric code. We're
6 going to have another set of standards and it's bad
7 enough when you go to one place and you've got
8 multiple codes. The municipality I work, we have a
9 separate code. So now as an inspector, you're
10 going to need to know additional codes with the
11 utilities in order to do these inspections.

12 So if we can just fine tune whether or not the
13 grid system the -- I mean the system we're going to
14 use. Because the single conductor, we have no
15 substantiation that a single conductor works for
16 that and also there was no substantiation for the
17 change. No technical substantiation for the change
18 for 2008. How did it get into the code?

19 MR. PAULEY: Mr. Gerdes?

20 MR. GERDES: Talk to this issue that you
21 submitted a proposal to the committee, you see, you
22 think there's an emergency nature. Could you maybe
23 hit on that again. What is the emergency?

24 MR. ROBINSON: The emergency nature is I've
25 got people being shocked on pool decks that no one

1 else seems to know about but me. Code making panel
2 17 is not aware o it. The rural electric agencies
3 are aware of the problems. Like I say Georgia
4 Power, they've got a stray current division that
5 deals strictly with pool decks.

6 MR. CLARK: And I received a call from Senior
7 River Power (phonetic) myself. They looked us up
8 on the internet and the engineer called me and
9 said, I'm glad I found you because we're having
10 these problems and we talked about how to rectify
11 it.

12 And the other issue I was making that if the
13 2011 does go back as it seems, again, I can't speak
14 for the code making panel, but as it seems that it
15 will because of the support, then you have states,
16 like California is a large pool state they're in
17 '05 right now, they require bonding grids. But if
18 we don't issue the TIA now and catch a lot of these
19 states, the '08 comes out with a single wire, then
20 2011 is going to go back to requiring grid and it's
21 already confusing enough.

22 MR. PAULEY: Dr. Clary?

23 MR. CLARY: I forget the name of the
24 association, has the International Association of
25 Electrical Inspectors, even the national, have they

1 put out a circular to the members about this issue?

2 MR. ROBINSON: The only thing I know -- you've
3 got the president sitting there, he can probably
4 speak to that better than I can. But the only
5 thing I've seen is the changes in the -- that
6 they've had articles in their magazines. It hasn't
7 talked about the single wire versus the
8 equi-potential binding grid.

9 MR. CLARY: So there may be some discussion on
10 that but probably just amongst -- or maybe at a
11 chapter level, or maybe on the blog or stuff like
12 it, there's that no national --

13 MR. ROBINSON: Right. I think I'm going to
14 generate one because I can't imagine I'm the only
15 one that knows about stray current on decks. Just
16 can't -- you know. If you look at Mississippi and
17 you look at Georgia, two probably big pool states,
18 okay, they're having major problems. So I don't
19 understand why this hasn't filtered down to the
20 rest of us.

21 MR. CLARK: Again a lot of it is because
22 people are changing the way they're constructing
23 decks. Pavers are becoming more popular, the costs
24 are coming down. If they move a little when the
25 earth shakes or changes, it's inherent in the

1 nature of the deck to have cracks. And they're
2 going with fibercrete because they can save money.
3 I had a driveway extension poured with fibercrete,
4 it looks great, and it doesn't crack. But again
5 you would use bonding grid underneath it or steel
6 rebar, or anything else, any other mat. So that's
7 one of the changes in the past in probably the last
8 ten years that's brought on these problems now.

9 MR. PAULEY: Additional questions, members of
10 the Council?

11 (No response from members of the Council)

12 MR. PAULEY: Gentlemen, five minutes for any
13 closing remarks that you might have, anything that
14 you want to finish up with you're welcome to do
15 that at this point.

16 MR. ROBINSON: One quick comment, before I
17 give the floor to Mr. Clark here is that I was in a
18 pool show in New Jersey and I did a little seminar
19 up there and ICC person up there, the code official
20 for the state of New Jersey, they've gone to single
21 wire. The interpretation for alternate means is
22 now a single wire. And that's happening across the
23 country. Vegas is the same way -- they can't wait
24 to get to single wire. It was the chief of Vegas
25 who told me that in the 2005 Boston seminar up

1 there. Let's just hold on until we get the
2 information we need to make sure we're protecting
3 the public. Let's don't jump to conclusion to go
4 to a single wire because the state of Florida
5 passed a law to go to a single wire, that's how
6 we're here. They passed a law saying, we're going
7 to a single wire, and guess what, we went to a
8 single wire for the whole country.

9 MR. PAULEY: Mr. Clark.

10 MR. CLARK: The only other thing I'd like to
11 add is we're not talking about changing the method.
12 It's an alternative means and the builders are
13 trying to use -- they're trying to use it as a
14 loophole regardless of what the pool shell
15 construction is and now just using a single wire,
16 because they've always had to bond the metal within
17 five feet of the water around the pool, because I
18 make some bonding clamps specifically designed for
19 the pool industry, that allow people to do that a
20 lot easier. We've always had to do it and a lot of
21 people are saying we already have a loop and it's
22 four to six inches out any way. It's always been
23 there. Thank you very much. I appreciate the work
24 are guys are doing.

25 MR. PAULEY: Thank you. With that we will

1 bring the hearing to a close. I do want to remind
2 you that the Council will deliberate and decide
3 this issue and ultimately a decision will be issued
4 by Ms. Spencer. No member of the Council, or any
5 member of the NFPA staff is permitted to convey any
6 information on this issue. It will come from the
7 secretary of the Council only. We do appreciate
8 both of you being here and we do appreciate the
9 time you spend with the NFPA standards process and
10 we appreciate your support of that process. And
11 with that we will go off the record.

12 (Thereupon, the foregoing proceedings were
13 concluded.)
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