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HUNTERS POINT SHIPYARD  
RESTORATION ADVISORY BOARD

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REPORTER'S TRANSCRIPT OF MEETING

June 24, 2004

Dago Mary's Restaurant  
Hunters Point Shipyard, Building 916  
Donahue Street at Hudson Avenue  
San Francisco, California

Reported by Christine M. Niccoli, RPR, C.S.R. No. 4569

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NICCOLI REPORTING

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

FACILITATOR: MARSHA PENDERGRASS - Pendergrass &  
Associates  
CO-CHAIRS: KEITH FORMAN - United States Navy SWDIV  
LYNNE BROWN - Communities for a Better  
Environment (CBE), Community  
First Coalition (CFC)

RAB MEMBERS & REGULATORS

LANI ASHER - Communities for a Better Environment (CBE),  
Community First Coalition (CFC)  
AMY BROWNELL - San Francisco Department of Public Health  
MAURICE CAMPBELL - Business Development, Inc. (BDI);  
Citizens Advisory Committee, Community First Coalition  
(CFC); New California Media; NEW BAYVIEW NEWSPAPER  
CHARLES L. DACUS, SR. - Hunters Point resident,  
Residents of the Southeast Sector (R.O.S.E.S.)  
MITSUYO HASEGAWA - JRM Associates  
JACQUELINE ANN LANE - U.S. Environmental Protection  
Agency (EPA)  
LEA LOIZOS - Arc Ecology  
J. R. MANUEL - JRM Associates, India Basin resident  
JESSE MASON - Community First Coalition (CFC)

1 RAB MEMBERS & REGULATORS [Cont.]:  
2  
3 JAMES MORRISON - Environmental Technology, R.O.S.E.S.  
4 KAREN G. PIERCE - Bayview Advocates, Bayview-Hunters  
5 Point Democratic Club, Bayview-Hunters Point Health &  
6 Environmental Assessment Program (HEAP)  
7 JAMES D. PONTON - San Francisco Bay Regional Water  
8 Quality Control Board  
9 MELITA RINES - India Basin Neighborhood Association  
10 SEALI'IMALIETOA SAM RIPLEY - Samoan American Media  
11 Services  
12 AHIMSA PORTER SUMCHAI - Bayview-Hunters Point Health &  
13 Environmental Resource Center (HERC)  
14 KEITH TISDELL - Hunters Point resident  
15 RAYMOND TOMPKINS - Bayview-Hunters Point Coalition on  
16 the Environment  
17 MICHAEL WORK - U.S. Environmental Protection Agency (EPA)  
18 LEHUANANIKEALAKAUILANIALOHILANILEILANI WRIGHT - JRM  
19 Associates  
20  
21 AUDIENCE  
22  
23 ARVIND ACHARYA - Innovative Technical Solutions, Inc.  
24 (I.T.S.I.)  
25 JOHN ADAMS - Tetra Tech EM Inc.

1                                    AUDIENCE [Cont.]:  
2  
3 RYAN AHLERSMEYER - United States Navy  
4 A. ANDRAYCHAK - San Francisco Police Department, Bayview  
5 JAMES ARLINGTON ANSBRO - Resident  
6 PAUL BOUCHARD - Industrial Metals Corporation  
7 MICHAEL E. BOYD - CARE/EMU  
8 PATRICK BROOKS - United States Navy  
9 BARBARA BUSHNELL - Residents of the Southeast Sector  
10    (R.O.S.E.S.), Silverview Terrace Homeowners  
11    Association, resident  
12 A. DON CAPOBRES - San Francisco Redevelopment Agency  
13 STEVE CHEN - ARS Technologies  
14 CRAIG COOPER - Presidio Trust  
15 TOMMIE JEAN DAMREL - Tetra Tech EM Inc.  
16 BENJAMIN FEICK - Waste Solutions Group (WSG)  
17 FRANK FILICE - San Francisco Department of Public Works  
18 MIGUEL GALARZA - Yerba Buena Engineering & Construction,  
19    Inc.  
20 RENE GONZALVEZ - Alpha & Omega Evangelistic Ministries  
21 RODNEY HAMPTON - Young Community Developers (YCD)  
22 RODNEY HAMPTON JR. - Young Community Developers (YCD)  
23 CAROLYN HUNTER - Tetra Tech EM Inc./SulTech  
24 ESPANOLA JACKSON - Muwekma Ohlone, BVHP  
25 NYEMAH JONES - Young Community Developers (YCD)



1 SAN FRANCISCO, CALIFORNIA, THURSDAY, JUNE 24, 2004

2 6:00 P.M.

3 ---oOo---

4 MS. PENDERGRASS: All right. The Thursday,  
5 June 24th, 2004, Hunters Point Shipyard Restoration  
6 Advisory Board meeting is now called to order. Let's  
7 see. We're missing a few people this afternoon. Do we  
8 have a quorum? Can we get started, or shall we wait a  
9 few minutes? Who do we have sitting out there? Let's  
10 see. We've got one, two, three, four --

11 MS. RINES: There's three over there.

12 MS. PENDERGRASS: -- five --

13 MS. BROWNELL: You got it.

14 MS. PENDERGRASS: -- six.

15 MR. TOMPKINS: Yeah.

16 MS. PENDERGRASS: All right. Seven. We got  
17 it. Okay.

18 All right. Let's start with introductions  
19 today. And what we are going to do is start with the  
20 RAB members around the table, and then we'll start with  
21 the audience so we'd like to recognize who's here.

22 Please speak your name loudly, clearly; and in  
23 fact, we'll pass the microphone when it starts with the  
24 audience so that we can get your name.

25 And if this is your first time, please remember

1 to sign in; and even if it's not your first time, sign  
2 in, put your address so that we'll make sure we have you  
3 on the mailing list and we'll have your names spelled  
4 correctly.  
5           Okay. So we can just start to my left.  
6           MS. BROWNELL: Amy Brownell, San Francisco  
7 Health Department.  
8           MR. HAMPTON: Rodney Hampton Jr., Young  
9 Community Developers.  
10          MS. LOIZOS: Lea Loizos --  
11          MS. PENDERGRASS: Mr. Hampton, are you sitting  
12 in --  
13          MR. HAMPTON: Yes.  
14          MS. PENDERGRASS: -- for someone?  
15          MR. HAMPTON: I'm sitting for Christopher  
16 Hanif, representative of YCD, Young Community  
17 Developers.  
18          MS. PENDERGRASS: Okay. Very fine. Thank you.  
19          MS. LOIZOS: Lea Loizos, Arc Ecology.  
20          MR. CAMPBELL: Maurice Campbell, Community  
21 First Coalition.  
22          MS. MOORE: Debra Moore, I.T.S.I.  
23          MR. MALOOF: Quijuan Maloof, Pendergrass &  
24 Associates.  
25          MR. RIPLEY: Seali'imalietao Sam Ripley, Samoan

1 Community.  
2 DR. SUMCHAI: Ahimsa Sumchai, RAB.  
3 MR. TISDELL: Keith Tisdell, RAB, resident.  
4 MR. MORRISON: James Morrison, resident.  
5 MR. DACUS: Charles L. Dacus, Sr., RAB and  
6 ROSES.  
7 MS. RINES: Melita Rines, India Basin  
8 Neighborhood Association.  
9 MR. PONTON: Jim Ponton, California Regional  
10 Water Quality Control Board.  
11 MR. WORK: Michael Work, U.S. EPA.  
12 MS. WRIGHT:  
13 Lehuananikealakauilanihilanileilani Wright, RAB  
14 member.  
15 MR. KEICHLINE: Ronald Keichline, I.T.S.I.  
16 MR. BROOKS: Pat Brooks, Navy lead Remedial  
17 Project Manager.  
18 MR. FORMAN: Keith Forman, BRAC Environmental  
19 Coordinator and Navy co-chair.  
20 MR. BROWN: Lynne Brown, co-chair. This is my  
21 last meeting. Thank you.  
22 MR. TISDELL: Boo.  
23 MS. ATTENDEE: Oh.  
24 MS. WRIGHT: Boo.  
25 MS. PENDERGRASS: All right.

1 MR. BROWN: A lot of people would say.  
2 MR. FILICE: Frank -- Frank Filice with the San  
3 Francisco Department of Public Works.  
4 MS. LANE: Jackie Lane, community involvement,  
5 EPA.  
6 MS. BUSHNELL: Barbara Bushnell, illegally  
7 removed RAB member, 20-year resident of Bayview-Hunters  
8 Point, and president of a homeowners association and  
9 ROSES.  
10 MS. PENDERGRASS: Thank you.  
11 MR. ANSBRO: Jim Ansbro, resident, Realtor  
12 reactionary.  
13 MS. JONES: Nyemah Jones. I'm here --  
14 THE REPORTER: I can't hear you.  
15 MS. JONES: -- with YCD.  
16 THE REPORTER: I can't hear you.  
17 MS. PENDERGRASS: Nyemah Jones?  
18 MS. JONES: Yes.  
19 MS. PENDERGRASS: Nyemah Jones with YCD.  
20 MR. HAMPTON: Rodney Hampton, YCD.  
21 MS. PENDERGRASS: Rodney, what was your last  
22 name?  
23 MR. HAMPTON: Hampton.  
24 MS. PENDERGRASS: Hampton. Okay.  
25 All right. We have a RAB member over here that

1 wasn't . . . Sorry.  
2 MR. MASON: Jesse Mason, Community First,  
3 resident of Hunters Point.  
4 MS. PENDERGRASS: Thank you, sir.  
5 MS. WRIGHT: Did you get Mr. Dacus?  
6 MS. PENDERGRASS: Let's say it again louder.  
7 We didn't hear you.  
8 MR. TISDELL: We didn't hear you.  
9 MR. ACHARYA: Arvind Acharya, I.T.S.I.  
10 MR. CHEN: Steven Chen, ARS Technologies.  
11 MS. PENDERGRASS: Steve Chen.  
12 MS. PENIAMINA: Tupu Peniamina, resident of  
13 Bayview.  
14 MS. PENDERGRASS: Okay. Can you please speak  
15 slower and spell it for us?  
16 MS. PENIAMINA: Tupu, T-u-p-u, Peniamina,  
17 P-e-n-i-a-m-i-n-a.  
18 MS. PENDERGRASS: Thank you.  
19 MR. PEARCE: Ralph Pearce, Navy Remedial  
20 Project Manager.  
21 MS. PENDERGRASS: Ralph Pearce. Okay.  
22 MS. NAGEER: Sherlina Nageer, LEJ.  
23 MR. BOUCHARD: Paul Bouchard, Industrial Metals  
24 Corporation.  
25 MR. ADAMS: John Adams, Tetra Tech EMI.

1 MS. HUNTER: Carolyn Hunter, Tetra Tech EMI.  
2 MS. DAMREL: Tommie Jean Damrel, Tetra Tech  
3 EMI.  
4 MR. AHLERSMEYER: Ryan Ahlersmeyer, RPM with  
5 the Navy.  
6 MR. TISDELL: Boo.  
7 MR. BOYD: Mike Boyd, CARE and EMU.  
8 MR. SMITH: Clifton Smith, environmental  
9 consultant.  
10 MR. MARKHAM: Gwendolyn Markham, citizen.  
11 MS. PENDERGRASS: All right. Very good.  
12 Anybody else join us that we didn't -- we didn't reach?  
13 MR. TISDELL: Get her.  
14 MS. PENDERGRASS: I'm sorry. Thank you.  
15 MS. VETROMILE: Julia Vetromile, Tetra Tech  
16 EMI.  
17 MS. PENDERGRASS: All right.  
18 Ma'am? Go ahead.  
19 MS. PACIFICO-COGAN: Danielle Pacifico-Cogan,  
20 Office of Congresswoman Nancy Pelosi.  
21 MS. PENDERGRASS: Can you spell your last name  
22 again for us?  
23 MS. PACIFICO-COGAN: All right.  
24 P-a-c-i-f-i-c-o, Pacifico, Cogan, C-o-g-a-n.  
25 MS. PENDERGRASS: Thank you.

1 MS. PACIFICO-COGAN: Thank you.  
2 MS. PENDERGRASS: All right. Very fine. All  
3 right. Let's get this party started today.  
4 Has everybody had a chance to look at the  
5 agenda? We have got a packed agenda tonight. We are  
6 going to have fun today.  
7 MR. TISDELL: Yes.  
8 MS. PENDERGRASS: Okay. The agenda, unless  
9 there's any changes this time? Seeing no changes, we  
10 are going to go ahead and accept the agenda as it is.  
11 Has everyone had a chance to look over the  
12 minutes or go to the Web site and listen -- or look at  
13 the verbatim transcript of what's transpired last month?  
14 MS. WRIGHT: Verbatim.  
15 MS. PENDERGRASS: Anybody have any suggestions  
16 or changes to any such minutes or verbatim transcripts?  
17 MS. WRIGHT: Verbatim?  
18 MS. PENDERGRASS: Verbatim.  
19 All right, then. I would request a motion that  
20 we accept these minutes.  
21 MS. PIERCE: So move.  
22 MS. RINES: Second that motion.  
23 MS. PENDERGRASS: Well, let's have the motion.  
24 MS. RINES: Make a motion and accept the  
25 meeting minutes as they are written.

1 MR. TISDELL: I second.  
2 MS. PENDERGRASS: Thank you so much. And we  
3 have a second. All right.  
4 All in favor of accepting the minutes as they  
5 are written, say, "Aye."  
6 THE BOARD: Aye.  
7 MS. PENDERGRASS: Any opposed? Any  
8 abstentions?  
9 (No verbal response elicited.)  
10 MS. PENDERGRASS: All right. We have minutes  
11 approved.  
12 Let's just double-check our action item list.  
13 We have a couple of carry-over items. The first one is:  
14 The Navy is to notify David Terzian and Navy Caretaker  
15 Site Office prior to removal of AMC's cranes at Dry  
16 Dock 4.  
17 Mr. Forman, do you have an update on that item?  
18 MR. FORMAN: That's a standing action item, and  
19 we haven't had any removal of AMC's cranes or anything  
20 yet. But we will keep that on there; and when that  
21 happens, I will notify him, and I'll make sure that a  
22 copy of the work plan goes to the artists.  
23 MS. PENDERGRASS: Very fine.  
24 Any discussion or comment on that?  
25 Okay. That will continue, then.

1           Carry-over Item 2: Mr. Work to report to the  
2 RAB Health Subcommittee about which studies went into  
3 establishing the R- -- PRGs for manganese.  
4           MR. WORK: Yes. I've been kind of keeping an  
5 eye out to see when the Health Committee's going to  
6 meet, but I haven't seen any meetings announced  
7 recently.  
8           So if there is going -- if there is a meeting  
9 scheduled, I request that I get notified as soon as  
10 possible.  
11          MS. PENDERGRASS: Okay.  
12          Miss Pierce, do you know when your next meeting  
13 will be, or are you prepared with that tonight?  
14          MS. PIERCE: No, because I believe that on our  
15 agenda is going to be a discussion of maybe collapsing  
16 some of the committees.  
17          MS. PENDERGRASS: All right.  
18          MS. PIERCE: And after that then we will be  
19 able to set some dates.  
20          MS. PENDERGRASS: Okay. Barring that activity,  
21 though, and to satisfy this particular carry-over item,  
22 I hate to ask this, but can it be in writing to the  
23 committee so it can be added to their agenda at some  
24 point so we get this off the carry-over list?  
25          MR. WORK: Sure, yeah. I'm fine with that if

1 the RAB is.  
2 MS. PENDERGRASS: If we can -- if we can  
3 provide it into writing to them, then whatever -- if  
4 they want more clarity on that, then they can invite you  
5 to the meeting --  
6 MR. WORK: Okay.  
7 MS. PENDERGRASS: -- instead of waiting to --  
8 MR. WORK: Okay. All right.  
9 MS. PENDERGRASS: All right.  
10 Will that work for everybody?  
11 MR. BROWN: I don't know, because that's  
12 when -- that's --  
13 MS. PENDERGRASS: Yes, sir.  
14 MR. BROWN: The -- the manganese is one of the  
15 elements that we are really fighting about out here, you  
16 know. One is manganese. The other one is chert. So --  
17 MS. PENDERGRASS: So --  
18 MR. BROWN: -- I think you -- This is my  
19 opinion: I think we should wait until have a meeting to  
20 bring Michael to the meeting --  
21 MS. PIERCE: I agree.  
22 MR. BROWN: -- you know.  
23 MS. PENDERGRASS: Okay. Very good. We will  
24 just delete that on, then, to be determined until the  
25 next meeting date, okay?

1 All right. The new item was: The RAB would  
2 like the Navy to consider arranging a field trip to view  
3 the former ammunition storage bunker located under the  
4 hill.

5 Mr. Forman, are you --

6 MR. FORMAN: Yes.

7 MS. PENDERGRASS: -- can you respond to that?

8 MR. FORMAN: Yes.

9 What I'd like to do during Navy business, I  
10 brought four photos of the ammo storage bunker in there.  
11 It's a pretty unimpressive little bunker. I'm going to  
12 show it to you, and then I would like to ask for input  
13 as to whether you really want a field trip there.

14 I have no problem with that. I just -- I'm  
15 not sure that you would really be interested in that  
16 after you see the photos. It's kind of underwhelming,  
17 and I'll do that during the Navy business.

18 MS. PENDERGRASS: Okay. Very fine.

19 Does that satisfy the new item?

20 MS. PIERCE: For now.

21 MS. PENDERGRASS: For now? Does that satisfy  
22 that? We can remove that?

23 MS. PIERCE: Not until we see the picture.

24 MS. PENDERGRASS: All right. That will be  
25 removed pending your report. Otherwise, we will have

1 another action item. Very good.  
2 All right. Moving right along.  
3 Time for your announcement.  
4 MR. FORMAN: I see. Thank you.  
5 Okay. Got a number of things to do tonight, so  
6 I'll try and be efficient with this.  
7 Julia? Thank you.  
8 All right. This is what I'd like everyone's  
9 attention to. We talked last RAB about there's an  
10 ammunition locker on Hunters Point, and I'd like . . .  
11 When we load up, what I want to do is show you --  
12 photograph is worth a thousand words. I want to show  
13 you some perspectives of it. It's very small.  
14 The only ammunition locker we have at Hunters  
15 Point is one that carried small arms bullets and little  
16 magazines for essentially small weapons. Small arms  
17 weapons is what they are called, things like  
18 9-millimeter pistols, .45s, things like that.  
19 Hunters Point was not a weapons station or a  
20 weapons storage facility. And this really is the limit  
21 to what we have here is a structure that stored this  
22 kind of ammo.  
23 Okay. This is a look -- This is looking down  
24 from the hillside from Parcel A.  
25 Ron, if you could go to Parcel A there and just

1 show the point where there's a cliff on Parcel A; and  
2 then we come down to the lowlands in, I believe, the  
3 green area.

4 MR. KEICHLINE: Right here?

5 MR. BROOKS: It's about right where your finger  
6 was there.

7 MR. FORMAN: Right there? Okay.

8 And looking down from the hillside down on --  
9 Can you see the bunker? Whenever you have a little  
10 storage, you have on one end of it -- thank you very  
11 much, Barbara -- you have built in a little mound, an  
12 earthen mound.

13 And there's rules and regulations about that.  
14 That's used to protect the bunker and is built -- well,  
15 essentially it's a protective device in case anything  
16 goes wrong. It's a standard type of setup for any sort  
17 of ammunition that's stored.

18 Next photo. Okay, you can see here, here's a  
19 photo of the bunker, and you can see for perspective --  
20 can you see to the right a tire? Okay. That kind of  
21 gives you a perspective of what we're looking at.

22 So we're looking at a little hill, a little  
23 hillock of earth. It's like a little earthen dam on one  
24 side of the locker.

25 Now, when we flip to the next side, you co- --

1 the bunker is right there on this side of the hill, and  
2 it has -- that's with its doors closed, okay.  
3           Okay. And again, with its doors open. It's  
4 tough to see here, but in the next photos, you'll see  
5 the dimensions of it. There was not very much room in  
6 this locker when they built it because when they --  
7 apparently, when they determined the storage capacity,  
8 it was pretty darn small.  
9           And you can see there -- you see there's a  
10 bucket there? So it's about -- I'd say the bunker is  
11 about my height or a little less and not too wide -- a  
12 little wider than it is high and then goes back just a  
13 couple of feet there, you see? And those are ci- --  
14 those are cinder-block walls behind the heavy metal  
15 doors.  
16           Next photo.  
17           Okay. That's tough to see from here, but --  
18 shoot. There's a little tire in there. Can you see  
19 that?  
20           MR. TISDELL: Yeah.  
21           MR. FORMAN: See that tire? Okay. That gives  
22 you -- I wanted something -- and they did a great --  
23 I -- The guys at the Caretaker did a great job trying.  
24 They found something near the tire; and that kind of  
25 gives you, since you know the size of a tire, about what

1 the perspective is there.

2           So given that -- thank you very much, Julia. I  
3 believe that's it.

4           Given that, I would just throw it up into the  
5 RAB, if you want -- in the future, if you want us to  
6 conduct a field trip to go there, not a problem. I just  
7 didn't want to waste your time with -- with that site.

8           And we have had field trips in the past, and  
9 I'm all for them. I'm thinking, though, if we did want  
10 to have a field trip with this great weather, it -- it  
11 might be to some other place other than the -- the ammo  
12 storage locker. But if you want to go there, I think we  
13 should vote on it.

14           MS. PENDERGRASS: Okay. Mr. Mason?

15           MR. MASON: My concern is this, Keith.

16           MR. FORMAN: Yes.

17           MR. MASON: I know there was a newspaper  
18 article in the paper about the United States going deep  
19 inside. You know, I don't know where it is.

20           But I also -- from my brother, my brother's  
21 perspective, when we were kids, he -- he went inside the  
22 bunker, and he was talking about, you know, how -- who  
23 deep and how far it was inside, you know, and that it  
24 was under the hill.

25           And I -- and I got this from him verbatim,

1 because this is my oldest brother; and, you know, I was  
2 wondering if I was alone there. I wasn't. But he said,  
3 yeah, there's a bunker underneath, and it goes deep  
4 inside the hill.

5           So -- and from the newspaper accounts that --  
6 that came out, it was talking about the same thing, how  
7 these young guys got inside this bunker, and there was  
8 some white powder and there was some other stuff, you  
9 know, and how deep it was inside.

10           So I'm just wondering -- I've always seen that  
11 ammunitions barn. So that's right below Parcel A --

12           MR. FORMAN: Correct. Right off the hill.

13           MR. MASON: -- you know.

14           So, you know, we have always known about  
15 that --

16           MR. FORMAN: Okay.

17           MR. MASON: -- you know.

18           But we were talking about in terms of -- you  
19 know, of a larger area going underneath the hill. I  
20 think that's what Mr. Tompkins was talking about.

21           MR. FORMAN: Yeah. This -- I did the research  
22 on that, Jesse, and it just -- to my knowledge, it  
23 doesn't exist. It isn't in any records. We can't find  
24 anyplace or anybody that knows where it's at or that  
25 there ever existed a place like that.

1           So I'm at a loss as to what to do.  
2           MR. BROWN: Mr. Ansbro knows.  
3           MR. CAMPBELL: Yeah, I was going to say, Jim  
4 Ansbro is here, and he's spoken to people and they've  
5 seen large iron doors, so I'd like to be able to  
6 introduce Jim just for a brief --  
7           MR. FORMAN: Sure.  
8           MR. CAMPBELL: -- description.  
9           Jim?  
10          MR. ANSBRO: Well, he overstated what I know.  
11 But you could drive right behind Building 813, and  
12 there's these big doors imbedded in the hill. I think  
13 that's what they are querying.  
14          MR. FORMAN: The ones behind the wall?  
15          No. Jim, I --  
16          MR. BROOKS: I don't know about those.  
17          MR. FORMAN: -- recently -- pretty recently  
18 I've been behind there, and there's the very, very  
19 tall -- maybe even 30 feet tall -- retaining wall of  
20 cinder block right behind that building.  
21          You're not talking about the big steel doors in  
22 back of the building, are you? Because that's a loading  
23 dock.  
24          MR. ANSBRO: Into the building into the hill.  
25          MR. FORMAN: Into the hill? Yeah.

1           MR. BROOKS:  There's a big concrete retaining  
2 wall that's -- it's actually a buttress for a landslide  
3 there.  
4           MR. CAMPBELL:  How about if we -- we leave that  
5 open until after you gentlemen got a chance to look for  
6 a specific site?  Maybe Jim could arrange to --  
7           MR. BROOKS:  Yeah, Jim --  
8           MR. FORMAN:  Sure.  
9           MR. CAMPBELL:  -- you know, wrap this up.  
10          MR. FORMAN:  What I rec- -- Jim, are you --  
11 not to overstate it, as you said, not to overstate the  
12 case, but are -- would you like to come with us in a car  
13 and show me actually where you think it is?  
14          MR. ANSBRO:  At break.  
15          MR. FORMAN:  Okay.  
16          MR. TISDELL:  I want to.  
17          MS. PIERCE:  I was going to say that I would  
18 like to go on and have a field trip --  
19          MR. TISDELL:  Yes.  
20          MS. PIERCE:  -- so we can see the bunker that  
21 has been identified, and we can see for ourselves this  
22 other area that people think is a bunker.  
23          MR. BROWN:  May I say something?  
24          MS. PENDERGRASS:  Go ahead.  
25          MR. BROWN:  Also, Jesse Blout knows where the

1 bunker is. And also, the lady whose children was in the  
2 EXAMINER, I have a number to get in touch with the kids  
3 too that went back there and played.  
4 MS. PENDERGRASS: Okay. So it sounds like  
5 consensus around going to see where we're talking about  
6 right now and then still arranging for a field trip  
7 after -- once you've seen it, we can add that to it.  
8 MR. FORMAN: Okay. Why don't I get if we  
9 actually can do this during the break.  
10 MR. ANSBRO: I think we can pull it off.  
11 MR. FORMAN: Okay. Good. Then I'll report  
12 back to you after that.  
13 MS. PENDERGRASS: Okay. Sure.  
14 MR. ANSBRO: There's no guard.  
15 MR. FORMAN: Pardon?  
16 MR. ANSBRO: A guard won't stop us.  
17 MS. PENDERGRASS: Okay. Real good.  
18 That's the end of your report?  
19 MR. FORMAN: For now.  
20 MS. PENDERGRASS: Mr. Brown?  
21 MR. BROWN: No, I don't have anything.  
22 MS. PENDERGRASS: Okay.  
23 All right, then. At this point, we are going  
24 to have a presentation on the progress -- the Navy  
25 progress in cleaning up groundwater beneath

1 Buildings 123 and 272.  
2 MR. FORMAN: Okay.  
3 MS. PENDERGRASS: H'm. And at the end of that  
4 presentation, we should be ready for a break; but prior  
5 to the break, we're going to do the elections so that we  
6 can have a break at the end.  
7 Do that?  
8 MR. FORMAN: (Nods.)  
9 MS. PENDERGRASS: Okay.  
10 MR. FORMAN: Great.  
11 MS. PENDERGRASS: All right. So who's doing  
12 the presentation?  
13 MR. AHLERSMEYER: That would be me.  
14 MS. PENDERGRASS: All rightie, then.  
15 MR. AHLERSMEYER: Ryan Ahlersmeyer.  
16 MR. TISDELL: Who?  
17 MS. ATTENDEE: Thank you.  
18 MR. AHLERSMEYER: Ryan Ahlersmeyer. I can try  
19 to talk very loud.  
20 MR. FORMAN: I would use a microphone.  
21 MR. AHLERSMEYER: Okay. Can I get the pointer?  
22 MR. TISDELL: Turn it on.  
23 MS. PENDERGRASS: You know, Ryan?  
24 MR. AHLERSMEYER: Yes?  
25 MS. PENDERGRASS: If it would be more

1 comfortable for you, please stand in the center there --  
2 MR. AHLERSMEYER: I can do that.  
3 MS. PENDERGRASS: -- and you can move around  
4 more freely, touch, feel. All right. There you are.  
5 MR. AHLERSMEYER: All right. Here I am in the  
6 center.  
7 I am here tonight to update everybody on the  
8 efforts the Navy have made -- has made of cleaning up  
9 groundwater across the Shipyard, in particular, and we  
10 have been performing some treatability studies using  
11 zero-valent iron.  
12 Next slide.  
13 The overview of what we are going to see here  
14 in this presentation, first of all, are I'm going to  
15 define what treatability studies are. Some people might  
16 not know, so we'll go through and talk about their use  
17 in the entire cleanup process.  
18 Following on, we will go through and we will  
19 define what zero-valent iron is and how it's used across  
20 the Shipyard and in other sites.  
21 Then I'm going into specifics of in the  
22 different cleanup projects that we are doing out here.  
23 In particular, there was a 2002 study on Parcel C.  
24 There's also one that happened in 2003 over on Parcel B.  
25 Then we'll follow on to the work that is currently

1 taking place just getting started out on Parcel C at the  
2 same site that happened in 2002.

3           Then at the end, we will talk about how all  
4 this data and how all this cleanup feeds the entire  
5 cleanup process and path forward and where we're going  
6 with this stuff. So . . .

7           Next slide.

8           Treatability studies. Treatability studies are  
9 used to provide really valuable "site-specific data to  
10 evaluate cleanup alternatives," exactly what it says.

11           Three things that they really do for us, in  
12 particular, we can test proven cleanup technologies,  
13 technologies that other people have used and have used  
14 successfully. We can use a treatability study to find  
15 out if that's going to work at our site, because all  
16 sites are different, so -- and different technologies  
17 work different at these different sites.

18           So there -- it's really valuable to do things  
19 up front like that before you go into the whole cleanup  
20 process.

21           Another thing, it also allow us to use new and  
22 very innovative cleanup technologies and test those out  
23 and gather a lot of valuable data.

24           Ultimately, the data that you gather through  
25 these treatability studies, it contributes to a

1 successful final cleanup, which is all of our goal.

2           Out at the Shipyard some treatability studies  
3 that we performed: soil vapor extraction, which is just  
4 a vacuum to pull contamination off the soil,  
5 bioremediation, and what I'm going to talk about tonight  
6 is a zero-valent iron.

7           You might ask, what is zero-valent iron? Well,  
8 zero-valent iron is just elemental form of iron, very --  
9 very pure iron, highly refined. It's got a very  
10 irregular shape, as you can see here. This is blown up  
11 quite a bit.

12           An important thing to note down here is that  
13 these grains are about the size of flour. This is done  
14 with an electron microscope, I think. If you look  
15 there, you can see that there's a lot of surface area on  
16 this iron. That's -- that's what makes iron so -- the  
17 zero-valent iron so effective because that adds more  
18 surface area. And the more surface area, the more  
19 contamination it can destroy.

20           Next slide.

21           Now, we're going from a 40 -- an electron  
22 microscope view of the iron to the iron that's delivered  
23 out to the Shipyard in bags and on pallets. Each of  
24 these bags are -- here is about, I want say, 500 pounds.  
25 Probably more than that.

1           This was a picture from Building 123, which is  
2 right over here on Parcel B. That was in 2003.  
3 So . . .

4           The actual process of using zero-valent iron is  
5 really not all that complicated. Basically, what you do  
6 is, you come in and drill a boring, essentially a hole,  
7 and you inject some nitrogen gas.

8           You put -- you put the ground under a little  
9 bit of pressure; and as you're injecting, it's opening  
10 up spaces inside the dirt and making room for -- making  
11 pathways for the nitrogen and the iron eventually to get  
12 to the contamination.

13          As you're injecting the nitrogen -- nitrogen  
14 gas, you're also mixing iron with water, creating a  
15 slurry, just like a mixture of iron and water.

16          So as the -- you -- as you're doing this,  
17 you're taking pressure readings everywhere on adjacent  
18 wells and things like that. You get a good feeling for  
19 how open the ground is and how well your pathways are  
20 established through the contamination.

21          Once you get a good feeling and you think that  
22 it's opened up and you can get a good distribution of  
23 the iron, you start to put the iron-water mixture in  
24 with the nitrogen gas and inject it out into the rock,  
25 taking it right to the contamination.

1           And as soon as it makes con- -- the iron makes  
2 contact with the contamination in groundwater, it starts  
3 to break it down, and it happens very quickly.

4           Right here, this is one of the bags that I  
5 pointed out earlier. It's up on the -- This is the  
6 whole mixing station, basically.

7           The iron sits up here. It comes i- -- falls  
8 into the -- looks like a big funnel. It's hauled up  
9 here and then dumped in here. This is where the mixing  
10 happens, the iron and the water mixture, the slurry, is  
11 created.

12          There's a pump on here. And basically, after  
13 that mixture is going -- they are all mixed up -- and  
14 you get a good feeling that the formation is opened up,  
15 they switch it on, and it starts to pump out. You can  
16 see almost a line there. I didn't notice that. And  
17 that goes -- that goes right up to the boring that they  
18 drilled, and it mixes the nitrogen gas and pushed  
19 through.

20          The nitrogen gas basically acts like a vehicle  
21 that takes the ni- -- takes the iron there. It's  
22 just -- It's carrying it along. So . . .

23          This is a pretty basic schematic of what -- of  
24 what it is. You get your nitrogen source here, on the  
25 back of a truck. That's what happening first. It's

1 injecting this down. This is your borehole. It's  
2 pushing some nitrogen in there, opening up the rock down  
3 there. And here is a trailer I just showed you.  
4         And as soon as you get a good feeling for the  
5 rock being opened up, this gets turned on, and they  
6 start mixing right here. So the arrows are the  
7 direction of this stuff's going out. You get a lot  
8 better schematic here in a second.  
9         This is the actual -- it says "PF" there  
10 because it's called pneumatic fracturing. All it is, is  
11 opening up spaces in the ground for the stuff to get  
12 to -- for the iron to get there.  
13         This is the nitrogen injection. You can see  
14 your borehole. Packer's open. Bam, you got pathways to  
15 the contamination.  
16         You got to do this at different levels too,  
17 depending on how deep your contamination is. Sometimes  
18 you got really shallow contaminations. Sometimes you  
19 got deeper contamination. Most of this stuff out here  
20 is pretty shallow. So . . .  
21         We have got a fracture. See, you got your --  
22 your ground has opened up. You got all your pathways  
23 established.  
24         Next slide.  
25         It was going to be kind of cumbersome getting

1 through that, but I thought the graphics were worth it,  
2 they do a little bit better job of explaining. So . . .  
3       Here's the actual iron getting into the  
4 formation after it's opened up. See, you got your  
5 fractures already. This is where we start to introduce  
6 the iron. I know red isn't exactly the best thing to --  
7 best color, but it's iron. That's what's going in  
8 there. This is a schematic. So you get -- now you get  
9 a good picture of how it actually gets distributed into  
10 the formation.

11       Meanwhile, you got to remember that groundwater  
12 is probably right about here. So this [indicating] is  
13 where it's in the groundwater.

14       Next.

15       Moving on. We're going to talk about a couple  
16 of the projects that have happened out at the Shipyard.  
17 You've been updated on this before. It was a couple  
18 years ago, though.

19       It -- This was the first one that was done  
20 with -- The first project was the treatability study.  
21 At Building 272 right out there by Dry Dock 4 in  
22 Parcel C, there was some groundwater. There's obviously  
23 some groundwater contamination over there. It's mostly  
24 TCE, which is trichloroethene. It's a degreaser, a  
25 solvent. It's common. You can find it in all

1 industrial practices. It's used to clean grease and  
2 stuff off of everything.

3           Some of the sources of this out there,  
4 potentially there was an underground storage tank right  
5 north of the building. That's been removed. There was  
6 an old grease trap right adjacent to the building or  
7 right adjacent to the underground storage tank. That's  
8 been removed as well.

9           Along with those sorts of things in both those  
10 Buildings 281 and 272, you come -- you have floor  
11 drains, sumps, dip tanks, things of that effect in that  
12 area. So . . . They all could contribute a little bit  
13 to the contamination.

14           This project, the 272 project, this is a  
15 pretty -- it included these things. It's pretty  
16 consistent on these projects. Like I said, this is  
17 not -- it's fairly simple stuff.

18           First of all, you create your pathways, like we  
19 showed, and we -- in this project, we injected iron into  
20 four different boreholes. This is one of the first ones  
21 we did. This is the first one we did out here, so . . .  
22 Kept it pretty small.

23           Along with that -- Along with the injection,  
24 we did some groundwater sampling to monitor the decrease  
25 in contamination, see how fast and how far you could get

1 it down.  
2           Got to move that one.  
3           This is a plume map of the contamination in  
4 Building 272. Go over here. Right here's the building  
5 edge. So -- and when I was talking about this is the  
6 old underground storage tank, this is the grease trap,  
7 and then there's lines from here that would feed out  
8 into those. So . . .  
9           All these little dots are monitoring wells, and  
10 these contours represent the different levels of  
11 contamination. So . . .  
12           Basically, right in this area -- hopefully, you  
13 can see it on the handouts -- this is "50,000,"  
14 50,000 micrograms per liter, which is pretty high. It  
15 was centered right around this little area right here.  
16 So . . . We decided to target that area for the iron  
17 injection, the four boreholes.  
18           Next slide.  
19           This is after. Look what's happened. A lot  
20 less contours, a lot less -- looks a lot cleaner. I  
21 mean, the 50,000 -- we back up one slide. Look at  
22 the -- Look at your hot spot here, and that's  
23 50,000 micrograms per liter.  
24           Next one. Your hot spot is that much smaller,  
25 and it's only 500 micrograms per liter, much easier to

1 deal with, much smaller and much more dilute. So . . .

2       So results of this project were: You got  
3 16,000 pounds of iron injected across four boreholes,  
4 four boreholes. That's total. That's not each hole.

5       Average reduction of TCE is 9 -- over  
6 99 percent. That means there is -- there is 99 percent  
7 less contamination in that site after we were done with  
8 that project.

9       It's a success. That was a success. In  
10 particular, that hottest well, which is IR28MW211F, that  
11 was right in the middle of the 50,000 contour that I  
12 showed you. It went from 78,000 micrograms per liter  
13 down to 850 in the end of the project. So that's even  
14 more than the 99.2. I think it's 99.8. So . . . Very,  
15 very significant reduction.

16       The next project was the treatability study at  
17 Building 123, which is over in Parcel B. You can see  
18 it's right there on the map, if everybody can see. It's  
19 the old -- one of the biggest buildings, very noticeable  
20 from everywhere.

21       There's a -- '93 is where that slide was from,  
22 and we painted it yellow -- not the building; the  
23 slide -- so you can see it then. It's a subvent if  
24 you're right over here.

25       Next slide.

1 Same problems at Building 123, not nearly as  
2 bad, though. These are much more dilute -- This is a  
3 much more dilute plume, primarily TCE, though. The same  
4 thing, just a solvent, an old degreaser.

5 The source of this TCE was an acid drain line  
6 that ran through Building 123. It was an electroplating  
7 shop and a plate -- just general plating shop. And  
8 whenever you plate, the first thing you have to do is  
9 clean and degrease the metal. So that's where you get  
10 your TCE from.

11 This project consisted of creating the pathways  
12 and injecting iron, this time 37 boreholes as opposed to  
13 4.

14 And subsequently we did some groundwater  
15 sampling, and that's the document, the decrease in the  
16 concentrations.

17 Julia.

18 Here's a plume map of what -- of what the  
19 contamination looked like under Building 123. This  
20 one's very busy, but I did want to show you all the  
21 different injection points, because there's 37 of them.

22 Same -- same deal here. These are contours,  
23 and they represent different -- different levels of  
24 contamination. Notice that these are -- this is 110 in  
25 one as opposed to 500, 5,000, and 50,000. Much lower,

1 much more dilute plume. This is -- mind you, this is  
2 before injection, what we call the baseline sampling  
3 ground.

4 Julia.

5 Post injection. Not the -- not the  
6 mind-baffling results you saw over at 272, but there's  
7 significant reductions. Notice how it's gotten a lot  
8 smaller, and we've gotten real good control of this one  
9 now. And it's like it's centered right around this  
10 area. And the levels you see on some of these wells,  
11 some of these perimeter wells are much lower.

12 An important thing to note too is that this  
13 plume wasn't moved whatsoever by our injection  
14 procedures. It was -- We just shrunk it in basically  
15 by coming around the edge, starting with the injection  
16 procedures on the outside and working your way in,  
17 basically capturing the contamination. So it's not  
18 getting out of there. It's fully surrounded.

19 Next slide.

20 Result: As opposed to 16,000 pounds, we put  
21 130,000 pounds of iron into the ground over there,  
22 37 boreholes. And the average reduction -- The TCE  
23 average reduction of contamination on any of that site  
24 was 35 percent. So we learned a lot. And we took away  
25 35 percent of the contamination under Building 123.

1           This is one of the successful wells, very  
2 successful. IR10MW61A went from the lower -- it's --  
3 went from a concentration of about 260, yeah, all the  
4 way down to 5, 5 mic- -- 5 micrograms per liter. That's  
5 a lot. That's good, especially in the low  
6 concentrations. It's very hard to get it -- to treat  
7 low-concentration plumes and to destroy them. That was  
8 a good success right there on that well.

9           Now we are moving back to 272, the first thing  
10 I was talking -- the first site I was talking about.  
11 This is what's happening now.

12           Since we did the initial demonstration and  
13 knocked the concentrations down 99 percent, we  
14 decided -- we didn't really decide. We have been  
15 reading and we've talked to people, particularly people  
16 from the University of New Hampshire.

17           And they have done a lot of studies with this  
18 stuff, and they have recommended that you got a lot  
19 of -- lot of benefit from going after the -- the  
20 contamination with the second run. You can get some  
21 very significant reductions of your residual  
22 contamination, if you come back.

23           So what we're doing is, we're going back and  
24 we're going after the more dilute plume, which is still  
25 remaining there.

1           Part of this project was installing three new  
2 groundwater wells. Those went in last week. And we're  
3 looking at nine locations to inject the iron. And along  
4 with that we're going to do groundwater monitoring,  
5 ground monitoring sampling, to document the decreasing  
6 contamination.

7           This is a map of the same site, Building 272.  
8 And the red right there, that's -- you can see it  
9 really -- really good on your handouts -- those --  
10 that -- those are the injection points. And the dark  
11 green is where we planned on attack. That's our  
12 treatment area. That's where we think the iron is going  
13 to affect that area right there.

14           The green wells, those are the wells that we  
15 are going to be sampling.

16           Here's your schedule. I'm not going to go back  
17 to the beginning because that's walking backwards.

18 So . . .

19           June 28th, next week, that's when we're going  
20 to start the ZVI, the injection. We have actually --  
21 Steve Chen is here. Here is our ZVI injection person,  
22 our contractor. That will take about two and a half,  
23 three, maybe four weeks, depending on the site  
24 conditions.

25           Week of August 9th we are going to do

1 post-injection monitoring and then follow on with  
2 another round after that and then another round after  
3 that and hopefully get a good decrease in  
4 concentrations.

5           So next slide.

6           Path forward. That's my path forward guy.

7 Results from all these treatability studies will help  
8 us, the re- -- the regulators and the community help to  
9 evaluate different cleanup alternatives, and ultimately  
10 it's going to aid us when we select a method for cleanup  
11 and incorporate that -- document that in the Record of  
12 Decision, which is your decision document for cleanup.

13           That's all. Any questions?

14           MS. PENDERGRASS: Okay. Let's start right here  
15 and go around the table if that's okay.

16           MS. BROWNELL. Can you tell us what the -- when  
17 the iron hits the TCE what's it break down into?

18           MR. AHLERSMEYER: When the iron hits the TCE,  
19 it starts to dechlorinate the TCE. Basically, it's  
20 tearing off the chlorides, the chloride elements.

21           Ultimately what it gets to is ethene and  
22 ethane. That's the end of the -- the pathway of  
23 degradation for TCE. And ethene and ethane is just an  
24 alcohol, which readily dissolves in groundwater.

25           MS. BUSHNELL: They are both flammable gases.

1 MS. PENDERGRASS: All right. Miss Pierce?  
2 MS. PIERCE: What are the health ramifications  
3 of then having all that iron down in the ground? Have  
4 there been any studies noted?  
5 MR. AHLERSMEYER: For the --?  
6 MS. PIERCE: Now that you put all that down in  
7 the ground and the -- the iron down there and it's going  
8 to stay there.  
9 MR. TOMPKINS: What about --?  
10 MS. PIERCE: What are the -- what are the  
11 health effects of -- of that? Because you certainly  
12 changed the character of that soil and land.  
13 MR. TOMPKINS: Possibility of synergistic  
14 effect.  
15 MS. PENDERGRASS: Yeah.  
16 MR. AHLERSMEYER: Yeah, you definitely change  
17 the situation down there and then the conditions down  
18 there. But it is an iron, and it's iron -- it's a -- I  
19 mean, we -- it's -- we all use iron. Everybody needs  
20 iron.  
21 The deci- -- or the -- what you really need  
22 there is a pathway to get the iron into you as well.  
23 And this water is not used for drinking. It's not  
24 drinking water out there.  
25 MR. BROOKS: The other thing -- the other thing

1 we need to remember is, serpentinite is already a very  
2 iron-rich rock. So adding a little bit of iron to  
3 serpentinite is like adding a couple of drops in the  
4 bucket.

5 MS. PIERCE: Have there been any studies?  
6 MR. AHLERSMEYER: Not that I know of.  
7 MS. PENDERGRASS: All right. Mr. -- right  
8 there. Let's do Mr. --  
9 MR. TOMPKINS: Campbell first?  
10 MS. PENDERGRASS: -- Campbell first and then  
11 you.

12 MR. TOMPKINS: No problem.  
13 MR. CAMPBELL: On your TCE, have you seen any  
14 rebounds? Because I know that there's another facility  
15 that's one of yours, and it's a deep concen- -- it's a  
16 deep concern to the EPA -- and I guess that's Moffett --  
17 where you're getting migration.

18 We know that you're using SVE, and with SVE if  
19 you don't get to the source you're going to see  
20 rebounds. And unless you pin these sources, you could  
21 see that it's coming back. And if so, what timetables  
22 and how are you going to manage that?

23 MR. AHLERSMEYER: What we can do is back --  
24 If you could go back a few slides, Julia.  
25 As far as -- let's talk -- talk about rebound.

1 MR. CAMPBELL: Right.  
2 MR. AHLERSMEYER: We are seeing -- You do see  
3 a small amount of rebound, because it's -- it goes after  
4 it fast, and it knocks it way down real fast.  
5 MR. CAMPBELL: It oxidizes.  
6 MR. AHLERSMEYER: And then it starts to work  
7 its way back up, that is, particularly if you have  
8 significant sources in the area.  
9 MR. CAMPBELL: Right.  
10 MR. AHLERSMEYER: We don't think we have any  
11 significant continuing sources there, but you do see a  
12 little bit.  
13 If you can keep going back, Julia.  
14 You can see in the -- in the 272 work,  
15 272 plot. See, you went from 78,000, and it got down to  
16 360 or 350. I can't read it.  
17 And then look what's happening. It's starting  
18 to go back up slowly. And that -- I call that a little  
19 bit of rebound, but it's nowhere near where it started,  
20 you know. It's a little bit of rebound, though.  
21 And as far as what we're going to do about that  
22 kind of stuff, right now we're just continuing to  
23 monitor, and we will get a firm handle on what's  
24 happening. In no -- in no way we're trying to exit out  
25 of here. We'll get a handle on it and keep monitoring.

1 And possibly -- I mean, at 272 we're going back and  
2 treat these concentrations to get a perfect -- to see  
3 what -- see impact that's going to be on the rebound  
4 concentrations.  
5 MR. CAMPBELL: Yeah.  
6 MR. AHLERSMEYER: That's what the New Hampshire  
7 people told us today, and you get some good effects if  
8 you come back and hit it once and then just hit it  
9 lightly again. So . . .  
10 MS. PENDERGRASS: Mr. Tompkins and then  
11 Dr. Sumchai.  
12 MR. TOMPKINS: I'm Mr. Tompkins. To follow up  
13 on Barbara's point was well-taken, since she's -- counts  
14 as well, that one of the by-products is a flammable gas;  
15 is not -- is that not correct?  
16 MR. AHLERSMEYER: Ethene and ethane?  
17 MR. TOMPKINS: Right. And then we have a  
18 series of fires coming, like it's fire season out here  
19 on the Shipyard. Could this be a contributing factor?  
20 And also, you didn't address earlier --  
21 MS. PENDERGRASS: Let him answer the first one.  
22 MR. TOMPKINS: Okay. Is this possibility to  
23 address that factor?  
24 MR. AHLERSMEYER: I don't see this as a source  
25 of flammable gas that is that -- contribute to the fires

1 whatsoever.  
2           We have to remember, when we're talking about  
3 ethene and ethane, these are dissolved in water.  
4 So . . .  
5           MR. BROOKS: And the concentrations are very  
6 low. As a fuel it's nothing.  
7           MS. PENDERGRASS: The next question.  
8           MR. TOMPKINS: Well --  
9           MR. BROOKS: Fuel source is just --  
10          MR. TOMPKINS: Again -- again, let's talk about  
11 when we're doing an analysis on these things. Don't  
12 look at it just as a separate chemical but that -- that  
13 it mixes with others. There's methane, we know.  
14 There's others within the area in combination with the  
15 other gases in the environment. Could this possibly add  
16 to it?  
17          In other words, I don't want -- usually risk  
18 assessments are done as isolated chemicals and not  
19 looking into the totality of the environment.  
20          Secondly --  
21          MR. BROOKS: Answer to the first question is  
22 no.  
23          MR. TOMPKINS: No to what? Please forgive me.  
24          MR. BROOKS: No, it's not -- it's not a fire  
25 risk.

1 MR. TOMPKINS: Okay. Your opinion. Okay.  
2 Then the synergistic effect with Dr. -- Karen  
3 Pierce was talking about, have you looked at that in  
4 terms of the additional iron left in there,  
5 possibilities of not iron in and of itself, free --  
6 ferric oxide, but in combination with possibility of the  
7 chemicals that are in the area, what are the -- have you  
8 did any studies to see about that, or what are the  
9 possibilities on that?

10 MR. AHLERSMEYER: Like I already told Karen, I  
11 do not know. We have not done any studies about the  
12 iron combining with other things that are already  
13 present in the Shipyard, the ambient metals or anything  
14 and those subsequent health effects.

15 I don't know of any studies, but I'd be more  
16 than happy to do -- do -- look around, further research.

17 MR. TOMPKINS: When? Because the reason --  
18 what led to this because in the initial discussion that  
19 this is an experiment being conducted out here at  
20 Hunters Point Shipyard, this magnitude, volume. And  
21 that's why it's a concern because if it's the first time  
22 out, all possibilities should be explored, not just,  
23 hey, let it run and not look at it.

24 MR. AHLERSMEYER: Yeah. See, we have to  
25 remember, this has been used in a lot of other places.

1 This -- It is an innovative technology; but when we  
2 speak of innovative, it's not the first or the second or  
3 the third time. It's been used for years in another  
4 fashion in permeable reaction barrier. You put this  
5 thing -- You put these walls in the ground; and as  
6 groundwater flows through them, it breaks it down.  
7       Basically all we're doing is taking the same  
8 stuff that builds the wall and taking it directly to the  
9 contamination. It's a much more active type thing.  
10 So . . .  
11       To adjust the experimental side of things and  
12 the idea that this is the first time that these things  
13 are really being used, it's not -- it's pretty proven  
14 and used widely.  
15       MR. TOMPKINS: Well --  
16       MS. PENDERGRASS: Okay.  
17       MR. TOMPKINS: -- the previous presenter --  
18       MS. PENDERGRASS: Excuse me.  
19       MR. TOMPKINS: -- had made those statements.  
20 That's why I said. Thank you.  
21       MS. PENDERGRASS: Dr. --  
22       DR. SUMCHAI: Well, I think that we are all  
23 touching on some similar concerns, and it would be  
24 reassuring to us if there had been a body of science to  
25 support some of these, you know, synergistic and -- and

1 cumulative effects, you know, that you'd being more, you  
2 know, competent in answering these questions that you  
3 would know.

4 I mean, I think that 130 -- 130,000 pounds of  
5 iron and 37 boreholes, that sounds like a significant  
6 concentration.

7 And then, you know, ultimately the groundwater  
8 pathways do connect with the bay. So whatever we are,  
9 you know, doing, it is, you know, potentially  
10 contaminating the bay.

11 And then, you know, this amount of  
12 concentration of iron in a region and in the generation  
13 of -- of flammable gases, it seems to me at the very  
14 least we should be doing some -- some gas monitoring.

15 And then I also would think that we would be  
16 doing some respective studies, that we have an  
17 opportunity to contribute to science by -- in addition  
18 to using this innovative technology in the cleanup, we  
19 can also be doing some prospective studies to see, you  
20 know, what is happening, you know, specifically in  
21 the -- in the Hunters Point, you know, environment and  
22 milieu.

23 MR. AHLERSMEYER: Well, to go to the monitoring  
24 site and the gas monitoring, we -- like I said, it's --  
25 ethene and ethane, it's dissolved in the groundwater and

1 it dissipates.  
2           We are monitoring. We do our post-injection  
3 monitoring rounds, and we continue to monitor  
4 groundwater under the basewide groundwater monitoring  
5 plan of the whole Shipyard.  
6           It dissipates so quickly. It's like fingernail  
7 polish remover. It's like acetone. It dissipates so  
8 quickly in groundwater that it's gone, okay. You're not  
9 talking about an actual generation of a gas out into the  
10 atmosphere.  
11          DR. SUMCHAI: But, you know, I know a little  
12 bit about chemical reactions also; and when you  
13 exceed -- I mean, if -- you know, it is possible for  
14 gases to come out of a solution, you know, when you  
15 exceed critical concentrations.  
16          Now, you went over -- you admit that you went  
17 over with the 130,000 pounds, right? That wasn't  
18 initially what you planned to do.  
19          MR. AHLERSMEYER: No. I -- We plan on  
20 injecting 37 boreholes and using as much iron as it  
21 took.  
22          DR. SUMCHAI: You did?  
23          MR. AHLERSMEYER: Yes.  
24          DR. SUMCHAI: All ri- -- all right. I think  
25 the gas monitoring is a reasonable thing to do. I think

1 that there should be some -- some type of a monitoring  
2 to be done.

3 MS. PENDERGRASS: Mr. Morrison, did you have a  
4 question? Okay.

5 And then Mr. Manuel, did you have a question?

6 MR. MANUEL: Yes.

7 MS. PENDERGRASS: And it's our custom here to  
8 take all the questions from the RAB before we go to the  
9 audience.

10 So we have another question from Mr. Manuel,  
11 and then Miss Pierce has a final question, and then  
12 we'll go to the audience, please.

13 MR. MANUEL: Okay. Quite a few of the -- the  
14 comments have already been made pretty much dealt with a  
15 lot of things I was interested in, like the reactions  
16 and being that oxygen and hydrogen produces an oxide  
17 with iron, what else the reactions may be and whatever.

18 But being that you've already said that there's  
19 no studies on that, my question, I guess, at this point  
20 would be: Is there a plan being --? I think it's a  
21 marvelous situation when you look at how much of a  
22 reduction you have in the problem.

23 I guess my question is: Is there a plan to  
24 replace the iron once it's been spent so that you can  
25 get more of a problem out of there and maybe end up with

1 a hundred percent clean situation?  
2 MR. AHLERSMEYER: To back up -- to -- Back to  
3 the -- I'll answer the last question first.  
4 But to back up there, I didn't say -- maybe I  
5 was misunderstood. I didn't say that there are no  
6 studies about the synergistic health effects from the  
7 residual from the iron being in there. I -- What I  
8 said is that I don't know of any. I'd be more than  
9 willing to do the research, though, in terms of -- and  
10 to look into it.  
11 MR. MANUEL: Sure.  
12 MR. AHLERSMEYER: Now, the other thing is that  
13 the follow-on work that you're talking about, per se,  
14 that's exactly what we're doing at 272.  
15 MR. MANUEL: So you are going to replace this?  
16 MR. AHLERSMEYER: We're going to go back in.  
17 The iron that was initially injected is spent by this  
18 point. So we are going to go back in. The New  
19 Hampshire people have recommend -- they've done a lot of  
20 studies on it. There's a lot of benefit gained from  
21 going back in with that second round, and that's what  
22 we're doing right now. He's in town for that.  
23 MR. MANUEL: That is great. I think it's a  
24 great thing to do.  
25 MR. BROOKS: And let me just clarify one thing

1 about the health effects of iron too. This is  
2 technology that's been used in probably almost every  
3 state in the union, and it's been approved by numerous,  
4 numerous regulators as far as health effects of using  
5 this reactive iron for treatment of contamination. It's  
6 not a problem.

7 MS. PENDERGRASS: All right. Miss Pierce, you  
8 had a final question?

9 MS. PIERCE: Okay.

10 My concern is that when we started this, you  
11 know, we're characterizing this as water that's not  
12 going to be drinking water. When we started this, that  
13 may have been a reasonable assumption. But over the  
14 last two years, it's become very clear that both the  
15 state and the federal government wants to force San  
16 Francisco to start using its own source water and not  
17 rely completely on Hetch Hetchy water.

18 So it becomes very, very critical for us to be  
19 considering now, as we look at the path forward, that we  
20 may in fact be affecting water that we're going to have  
21 to drink at some time in the future. That's -- that's  
22 why I'm concerned about this.

23 So I'd like to know, while you're doing the  
24 monitoring, are you looking at the concentration of iron  
25 in the water?

1 MR. AHLERSMEYER: Yes. We are -- we are  
2 monitoring --  
3 MS. PIERCE: Can you give us --  
4 MR. AHLERSMEYER: -- irons, metals --  
5 MS. PIERCE: -- reports on that back?  
6 MR. AHLERSMEYER: It's all available. It comes  
7 out in the treatability study reports basically  
8 documenting the post-injection monitoring.  
9 But right now what we have to deal with is:  
10 It's not a drinking water source, and it does destroy  
11 contamination. So that's where we're at.  
12 MS. PIERCE: Just to -- Just need to think  
13 about the future.  
14 MS. PENDERGRASS: We have a question over here.  
15 Sir? Yes, sir, in the black shirt.  
16 MR. SMITH: Yes. Did you conduct  
17 bench-scale --?  
18 MR. MASON: Can't hear you.  
19 MS. PENDERGRASS: You'll have to -- Use the  
20 microphone there, sir.  
21 MR. SMITH: Were bench-scale pilot studies  
22 conducted on this technology prior to injecting it into  
23 the -- the aquifer? That's question No. 1.  
24 Question No. 2 is: How deep are the aquifers  
25 over which you injected this material? How far did you

1 inject it down?  
2           And did you sample down at the bottom of that  
3 aquifer?  
4           MR. AHLERSMEYER: First question. Bench-scale  
5 test, numbers of them. Plenty of bench scale, 'cause  
6 they were -- the technology would never get into the  
7 field --  
8           MR. SMITH: Did --?  
9           MR. AHLERSMEYER: -- if it didn't pass --  
10          MR. SMITH: Did you --?  
11          MR. AHLERSMEYER: -- the scale test.  
12          MR. SMITH: Did you conduct bench scale here?  
13 Because every condition is different.  
14          MR. AHLERSMEYER: What you're dealing -- When  
15 you say a bench-scale test, you would basically bring  
16 out groundwater and using similar contamination.  
17          So to answer your question, no. We did not  
18 take aquifer from here and move it somewhere. We did  
19 not take groundwater from here and move it somewhere.  
20          We looked at results from groundwater, very  
21 similar groundwater that had the same concentration, the  
22 same contaminants, and looked at the results from that.  
23 So . . .  
24          Can you repeat the second question?  
25          MR. SMITH: How deep --? Well, for example,

1 how deep is the deepest of the -- of the --? How deep  
2 is the aquifer over the most concentrated site?  
3           How far down did you inject the iron?  
4           How far down did you sample?  
5           MR. BROOKS: Let me answer that because I was  
6 the one that did this first treatability study.  
7           The first thing that we did before we actually  
8 did any iron injection is: We characterized where the  
9 groundwater contamination was.  
10          And then in consultation with Mr. Steve Chen  
11 here, we decided that what we would do is: We'd get  
12 beneath that contamination so we'd know how deep it goes  
13 down. I don't remember the exact depth. But we  
14 injected first at the bottom. So we put like a  
15 treatment blanket across the bottom; and then we pulled  
16 our packers up, like you saw in the animation, and we'd  
17 inject again.  
18          So we formed a blanket beneath the  
19 contamination and brought it up to the surface. So  
20 that's how we did it. We went down to the full length  
21 of the contamination and made sure that we did the  
22 injection at the bottom to try to keep it isolated.  
23          MS. PENDERGRASS: Okay.  
24          MR. SMITH: Okay. Is that the depth of the  
25 aquifer? And do you --?

1 MS. PENDERGRASS: Okay.  
2 MR. BROOKS: Well, it's the depth of the  
3 contamination.  
4 MS. PENDERGRASS: Okay. We have one more  
5 question from the audience, and we have to take a break.  
6 We have one thing before we can do before the break, and  
7 Miss Bushnell had her hand up for the longest here.  
8 MS. BUSHNELL: It's not really a question.  
9 It's a statement.  
10 First of all, elemental iron is a very active  
11 substance. That's why it's so expensive, right? They  
12 have to crop it especially.  
13 The body uses iron in your red blood cells.  
14 Your liver stores and exchanges it as the red blood cell  
15 dies. So iron is a normal element in the body.  
16 Iron, when it's out there, it joins with oxygen  
17 or chlorine. It's going to be real happy, and it's  
18 going to hang with that unless something else comes  
19 along. But it's happiest with oxygen and with chlorine.  
20 So the fact it's not really going to be active,  
21 I don't believe. It's not going to hurt anybody unless  
22 they were to eat too much of it. Your liver will clean  
23 it out. It's normally processed.  
24 MS. PENDERGRASS: Thank you. Thank you very  
25 much.

1           We have to close this part of the question, and  
2 I'm sure Ryan will be around at the break for any  
3 follow-up questions. Thank you.

4           At this point, we need to quickly move on so we  
5 can have our break; but we need to cast our ballots now  
6 for our next co-chair, community co-chair.

7           As provides in our bylaws, once a year we have  
8 an election to elect a new community co-chair.

9 Fortunately or unfortunately, we are always stuck with  
10 the same Navy co-chair. So we will --

11           (Laughter.)

12           MS. PENDERGRASS: Just thought I'd throw that  
13 out. He's not up for election on that. Okay.

14           Okay. So excuse me. Let me have your  
15 attention just a moment, please. Mr. Keichline has  
16 passed out the election ballot. Let me assure you that  
17 each ballot is numbered. Only RAB members are allowed  
18 to vote on this.

19           Now, let me just go over to make sure that  
20 we're all clear. We're to vote for one person on the  
21 ballot.

22           The current slate right now is Maurice  
23 Campbell --

24           MR. TISDELL: Boo.

25           MS. PENDERGRASS: -- J. R. Manuel --

1 MR. TISDELL: Boo.  
2 MS. PENDERGRASS: -- and in fact, if -- before  
3 we do could this, can we have Mr. Campbell stand up and  
4 wave so we all know? Okay.  
5 Then the next candidate is J. R. Manual.  
6 If you'll stand up and wave.  
7 The third candidate is Dr. Sumchai.  
8 If you stand up and wave.  
9 DR. SUMCHAI: I -- I have to withdraw.  
10 MS. PENDERGRASS: Just stand up and wave.  
11 MR. RAB MEMBER: She's withdrawing.  
12 DR. SUMCHAI: No --  
13 MR. RAB MEMBER: She's withdrawing.  
14 DR. SUMCHAI: -- I can't do it.  
15 MS. RAB MEMBER: She's withdrawing.  
16 DR. SUMCHAI: I -- I can't because I am very  
17 likely going to have to assume some --  
18 MS. PENDERGRASS: Are you withdrawing your  
19 nomination?  
20 DR. SUMCHAI: I am, yes.  
21 MS. PENDERGRASS: All right.  
22 Please draw a line through "Dr. Sumchai." Your  
23 vote will not count if it is for Dr. Sumchai at this  
24 point.  
25 And the third -- fourth candidate, then, is

1 Doc- -- Mr. Tisdell.  
2 Please stand up and wave. All right.  
3 MR. MANUEL: Supposed to stand up and wave.  
4 MS. PENDERGRASS: He just will not conform.  
5 All right, then. If everyone would pass in  
6 their ballots to Mr. Keichline --  
7 MR. TOMPKINS: Procedure.  
8 MS. PENDERGRASS: Yes.  
9 MR. TOMPKINS: In the previous election, the  
10 candidates spoke to the Board prior to voting on -- on  
11 them.  
12 MS. PENDERGRASS: Actually, we bypassed that  
13 process last month when we established a slate.  
14 MR. TOMPKINS: Okay.  
15 (Inaudible simultaneous colloquy.)  
16 THE REPORTER: Go off?  
17 MS. PENDERGRASS: We're off. We're now at  
18 break. Thank you. We'll take a break and cast those  
19 ballots in. Thank you.  
20 (Recess 6:59 p.m. to 7:12 p.m.)  
21 MS. PENDERGRASS: All right. I think that I'm  
22 convening the meeting prematurely because this -- didn't  
23 a couple people take a field trip?  
24 MS. ATTENDEE: Yeah.  
25 MS. PENDERGRASS: And that's just really going

1 to mess up my cha-cha.  
2 I'll tell you what we can do. Why don't we go  
3 to the subcommittee reports so that we don't have to  
4 wait around?  
5 MS. ATTENDEE: Well --  
6 MS. PENDERGRASS: So if we could start with our  
7 subcommittee reports, and let's start with --  
8 MS. PIERCE: I --  
9 MS. PENDERGRASS: -- the --  
10 MS. PIERCE: Start with mine. I have no  
11 report.  
12 MS. PENDERGRASS: -- the Technical Review  
13 Committee.  
14 MR. TISDELL: One subcommittee's gone.  
15 MS. PENDERGRASS: Yeah. Well, we'll just work  
16 through the ones we've got. I mean, you know.  
17 MS. LOIZOS: Okay. Well, I had a meeting on  
18 June 2nd. And for an hour and a half, Keith, Pat, and  
19 Ralph and I sat around and talked. It was really nice.  
20 Would have been nice if some RAB members were there.  
21 So yeah, there's no meeting minutes, as you can  
22 imagine.  
23 MS. RINES: Thanks for sharing.  
24 MS. LOIZOS: But the subject matter was  
25 supposed to be -- what I prepared for was talk about

1 time-critical removal actions or just removal actions in  
2 general and their use. And I know that there's been a  
3 lot of talk about that. People are concerned about  
4 whether they've been used properly or not, which is  
5 why -- where the idea came from.

6           So we were going to ask, if it's something that  
7 people are interested in, we could reschedule that  
8 meeting. But I'd like to know if people are going to  
9 come or not. I mean, I don't want to keep scheduling  
10 meetings that aren't of interest to people. So . . .

11           MS. PENDERGRASS: Okay. Now, this is the  
12 Technical Review Committee, right?

13           MS. LOIZOS: Yeah.

14           MS. PENDERGRASS: All right. Now, and there's  
15 been a lot of discussion. And every time we have a  
16 presentation by anybody from the Navy or one of their  
17 subs or anything like that, there's lots of interest in,  
18 you know, a lot of the materials; but we don't have any  
19 activity at the committee level.

20           So what's the pleasure of this group? What are  
21 you thinking?

22           MS. RINES: About what?

23           MS. PIERCE: Half the group isn't here. We- --

24           MS. PENDERGRASS: I know.

25           MS. PIERCE: We're supposed to have a

1 discussion about whether or not we should collapse the  
2 committee structure so they are -- there are not that  
3 many meetings and that people can make the meetings --  
4 MS. PENDERGRASS: Okay.  
5 MS. PIERCE: -- because I don't think it's a  
6 matter of people say they want to discuss this and then  
7 they really aren't interested. It's we have too many  
8 meetings.  
9 So I think we need to hold the whole  
10 subcommittee discussion until we have full RAB back and  
11 have this discussion and take a vote.  
12 MS. PENDERGRASS: Well, who's missing from the  
13 RAB that --?  
14 MS. RINES: Can I just make a point too? That  
15 subject matter was brought up in the bylaws in the  
16 subcommittee meeting about what we should do with  
17 something like that.  
18 MS. PENDERGRASS: Well, what's the clarity that  
19 you'd like to provide, Miss Rines?  
20 MS. RINES: The only clarity was that we  
21 realize we are probably going to have to condense them  
22 to -- a suggestion was made to have meetings two days  
23 out of the month, all meetings in two days, but it's --  
24 you know, or have alternate months that you have it  
25 maybe only once every three months, something like that.

1 MS. PENDERGRASS: Okay.  
2 So other than the committee structure, is there  
3 nothing else to report on any of the other committees?  
4 There's no other business to report?  
5 Dr. Sumchai, would you like to report?  
6 DR. SUMCHAI: Sure.  
7 MS. PENDERGRASS: Thank you.  
8 DR. SUMCHAI: We -- we had a very large  
9 subcommittee meeting yesterday, and there were 13 people  
10 who attended.  
11 We were honored to have Mr. Edward Wiesick, a  
12 gentleman in his 80s who was a gardener at the Shipyard  
13 for many years; and then we had representatives from the  
14 Navy, and Mr. Jerry Vincent from the Army Corps of  
15 Engineers attended; and then there were several members  
16 of the RAB and some members of the smaller community,  
17 including Gaynorann Siataga, who is a candidate for the  
18 school board.  
19 And the focus of the discussion was on the FUDS  
20 sites.  
21 Now, I transmitted to everyone on the e-mail  
22 list at 2:45 p.m. today abbreviated minutes from this  
23 meeting.  
24 I also sent some to you.  
25 So I'm not going to go into great detail. I

1 will say that the -- the FUDS site -- the FUDS sites are  
2 very important because the draft final HRA has  
3 recommended that they undergo scoping surveys. So for  
4 Buildings 815, 820, 830, 831, these buildings now are  
5 being looked at by RASO for -- for further  
6 investigation.

7           And Mr. Vincent from the Army Corps of  
8 Engineers was not in full agreement with this decision,  
9 and we talked a lot about some of the reasons why RASO  
10 may want to look into these buildings.

11           I think all of us on the RAB have had concerns  
12 about these buildings and the adequacy of their  
13 investigation for remediation, particularly Building --

14           MS. PENDERGRASS: Excuse me. Can we have a  
15 little quiet over here? We're still trying --

16           DR. SUMCHAI: Oh, I thought you were hollering  
17 at me.

18           MS. PENDERGRASS: No, not this time.

19           DR. SUMCHAI: You're really scary.

20           So essentially, you know, there's some  
21 outstanding issues with Building 815. There were two  
22 15,000-gallon tanks, underground tanks, in the outside  
23 of the parking lot that were found at some point to have  
24 low-level radioactive waste in concentrations that  
25 slightly exceeded background.

1           There have been some letters back and forth  
2 from the Department of Public Health to Mr. Ted  
3 Lowpensky and to Mr. Vincent of the Army Corps of  
4 Engineers; and, you know, perhaps we could have Amy  
5 clarify, you know, what the status is with regard to  
6 those tanks.

7           Building 815 underwent a series of  
8 investigations and decontaminations, and the most of the  
9 drive behind those investigations was with changes in  
10 clearance standards for buildings.

11          And, you know, essentially what -- what's  
12 happening, you know, right now is that, you know,  
13 because RASO has determined the storm drains and  
14 sanitary sewer lines to be an impacted area, then  
15 Building 815 -- which, by the way, is an eight-story  
16 building. The basement had support offices.

17          Five floors at Building 815 had laboratories or  
18 machine shops in them. And so you know the laboratory  
19 sinks in this building would certainly be, you know,  
20 considered at risk. So, you know, they need to be  
21 looked at.

22          And Mr. Vincent is going to be speaking at the  
23 August RAB meeting. He will make a full presentation to  
24 the August RAB. And Laurie Lowman will next make her  
25 presentation at the August RAB meeting.

1           So additional concerns were raised about the  
2 FUDS sites in the community; and, you know, there --  
3 there was a lot of discussion and not a lot of  
4 resolution.

5           Additionally, Maurice Campbell -- okay.  
6 Maurice -- Maurice is here. Maybe you can just say a  
7 minute or two about some photogra- -- graphs he has  
8 obtained which suggest that there may be some -- some  
9 additional D series buildings in the Mariner's Village  
10 and then that -- they may have -- may use for  
11 laboratories.

12           But, you know, that was the gist of the -- the  
13 meeting; and again, I did e-mail you some abbreviated  
14 minutes.

15           And if, Maurice, you have any comments, you  
16 can -- you certainly may make them at this point.

17           MR. CAMPBELL: Sure.

18           We -- we sent the photographs to Laurie -- to  
19 Laurie Lowman, and Keith had also looked at some of  
20 the -- some of the photographs. And there's going to be  
21 some -- some brief discussions on it, because we  
22 mentioned that in Building 101, there's a legend showing  
23 that there was an NRDL laboratory in --

24           MR. BROWN: B19.

25           MR. CAMPBELL: -- B -- B19.

1           And so anyway, we are going to clarify that  
2 when we come together the next meeting, because Keith  
3 was saying he blew the pic- -- the end result zoomed in  
4 on.  
5           And they looked like Quonset huts; is that  
6 correct?  
7           MR. FORMAN: Yes, sir.  
8           MR. CAMPBELL: So we've got some discussion  
9 coming up.  
10          MS. PENDERGRASS: All right. Very good. So do  
11 we have the --? We have the end of the committee report  
12 there.  
13          Do you have anything else to add to that  
14 report, Dr. Sumchai? Okay. And when is your next  
15 meeting?  
16          DR. SUMCHAI: It's going to be on Wednesday,  
17 July 21st, from 3 to 5 p.m.  
18          MS. PENDERGRASS: Okay.  
19          MR. TOMPKINS: I have one quick question.  
20          Dr. Ahimsa [sic], on Building 518 with five  
21 floors that are all left --  
22          MS. BROWNELL: 815.  
23          MR. TOMPKINS: 815. Excuse me. I -- I wrote  
24 down "815" -- 815, and it's on five floors, all the  
25 sinks then they used in the sewer system all then

1 drained into the main sewage there on the base that's  
2 currently in existence now, or was there a special  
3 trapping or something, or is this still the main line  
4 that's still underground now?  
5 DR. SUMCHAI: NR- -- NRDL operated from 1955 to  
6 1969; and during their period of operation, there was a  
7 combined sanitary sewer system and storm drain system.  
8 So the systems were separated after NRDL was  
9 established.  
10 So presumably the whole system would be  
11 contaminated by any influence that came out of those  
12 traps.  
13 MS. PENDERGRASS: Okay.  
14 MR. TOMPKINS: Okay. And was the practice at  
15 that time pour nuclear waste down the sewer -- down the  
16 drains, is my understanding? Am I correct?  
17 DR. SUMCHAI: It is documented in the draft  
18 final HRA that naturally occurring radioactive materials  
19 and nuclear-accelerated-generated materials were being  
20 disposed of in the drains of the laboratories of NRDL.  
21 MS. PENDERGRASS: All right. Thank you.  
22 MR. TOMPKINS: Thank you.  
23 MS. PENDERGRASS: Thank you.  
24 Okay. At this point, we're going to just kind  
25 of back up a little bit so that we can get back to the

1 discussion around collapsing some of the --  
2 MS. RINES: Can I --?  
3 MR. TOMPKINS: Subcommittee --  
4 MS. PENDERGRASS: -- subcommittee structure.  
5 We'll do the co-chair, sure. The --  
6 MS. RINES: I have a meeting update.  
7 MS. PENDERGRASS: Okay. I'm sorry.  
8 MS. RINES: Okay.  
9 MS. PENDERGRASS: I'm sorry. I just --  
10 MS. RINES: I know.  
11 MS. PENDERGRASS: I sure did. Okay. I'll tell  
12 you what, to make this more smoother flow, let's have  
13 the rest of the subcommittee reports. We're only  
14 missing one, so let's do the --  
15 MR. TISDELL: Two.  
16 MR. TOMPKINS: Two.  
17 MR. ATTENDEE: Two.  
18 MS. RAB MEMBER: Maurice --  
19 MR. TOMPKINS: -- Campbell's back.  
20 MS. PENDERGRASS: Thank you. Okay. We'll do  
21 both subcommittee reports, and then we'll talk about --  
22 before we -- after we end that, we'll talk about the new  
23 structure, committee structure, as Ms. Pierce was -- had  
24 recommended.  
25 MS. RINES: Why don't you let him do it, since

1 mine ties into that?

2 MS. PENDERGRASS: Very fine.

3 Mr. Campbell.

4 MR. CAMPBELL: Okay. On the Economic  
5 Subcommittee, we had the HAZWOPER training. Eighteen  
6 people attended. And the handouts also show you the new  
7 contracts that were awarded in May.

8 There is some concerns that is coming up from  
9 some of the community members, and we will be discussing  
10 in the future that some of the community members have  
11 been passed over. So we want to clarify that.

12 And there's something coming up as far as the  
13 truckers on -- on -- we're looking at how the contracts  
14 are awarded. So this is something that we're hearing  
15 from the community, and that will be coming up.

16 The report is pretty clear. There is going to  
17 be some internal training for interns that will be  
18 coming up. That's also spelled out in there. I don't  
19 want to take much time on that at this point.

20 MS. PENDERGRASS: Okay.

21 It just came to my mind, are we putting -- are  
22 we putting the subcommittee reports as part of the  
23 record?

24 MR. KEICHLINE: (Shaking his head.)

25 MS. PENDERGRASS: Then just -- okay, because

1 just for point of clarification, any minutes need to be  
2 authored, meaning that there needs to be someone who  
3 wrote the minutes. They're -- need to be documented.  
4 So at the bottom, whoever wrote it needs to say that.

5 Yes, sir.

6 MR. KEICHLINE: To clarify, copies of the  
7 subcommittee minutes do go into the information  
8 repositories and the administrative records.

9 MS. PENDERGRASS: Okay. All right. So they  
10 do -- you need to make sure that you put down at the end  
11 "Respectfully submitted" and whoever did the minutes so  
12 that they go on record.

13 All rightie, then. Let's see.

14 MS. RINES: Membership and Bylaws.

15 MS. PENDERGRASS: Yes, ma'am.

16 MS. RINES: We had a really good meeting. We  
17 had a good turnout. Basically, what we discussed, I  
18 would like it if everybody could pick up the copy of the  
19 minutes and read them when you go home, but basically it  
20 would be nice if you had read them before.

21 What we were trying to do at this meeting,  
22 since August is the only month that we can amend the  
23 bylaws, that we were trying to come up with the issue of  
24 the attendance and the four missed meetings in a  
25 calendar year, that whole issue.

1           What we came up with was a proposed amendment  
2 to the language, which is that:

3           All RAB members are expected to  
4 attend regular meetings. If any member is  
5 absent from four meetings in a 12-month period,  
6 he or she will be -- automatically be removed  
7 from the RAB. There will be no distinction  
8 between excused and unexcused absences. For  
9 purposes of attendance recordkeeping, a  
10 12-month period will be defined as 12 months  
11 from the month of the current RAB meeting.

12           Each member may designate an  
13 alternate to attend in his or her place. An  
14 alternate has all the privileges of a RAB  
15 member but does not count toward attendance.

16           So basically, we hope that that language that  
17 we need to vote on when it comes up before the full RAB  
18 when we vote on this is acceptable to -- is acceptable  
19 to -- is acceptable to change for the 12-month-period  
20 issue.

21           MS. PENDERGRASS: Okay.

22           MS. RINES: So I need everybody to think about  
23 this 'cause it's very important, okay?

24           MS. PENDERGRASS: All right.

25           MS. RINES: The next thing we came up with is

1 also how some people come into the RAB meeting late or  
2 leave early. We need to address that issue. Basically,  
3 we wanted to make an amendment to Section 9a that says,  
4 "Making a good-faith effort to regularly attend RAB  
5 meetings . . . ," okay.

6           Basically, by putting that in there, what that  
7 says is, that gives the rest of the RAB members the  
8 ability to put peer pressure on their co-RAB members to  
9 say: "How come you always come late?" Do you need  
10 to -- you know, "Do you need to have -- step down?"  
11 Do --? "Why do you always have to leave early?" It's  
12 basically to try and make sure that everybody comes when  
13 they need to come.

14           Also we wanted to say -- we needed to put this  
15 in there about how RAB members may not represent before  
16 the RAB any person, agency, or organization, press -- in  
17 other words -- okay. The language on this one is that  
18 you can't go in front of the media and say, "I represent  
19 the RAB."

20           MS. RAB MEMBER: Right.

21           MS. RINES: You represent you, and you are on  
22 the RAB, but you do not represent the RAB. We want to  
23 make a point to have that. So that's in there too.

24           One last thing is, we got an application,  
25 Barbara Bushnell.

1           And I don't know if you're still going to do  
2 this, Barbara.  
3           Barbara Bushnell had been removed as of the  
4 last RAB meeting.  
5           MS. BUSHNELL: Because of the illegal  
6 interpretation.  
7           MS. PENDERGRASS: Excuse me, Miss Bushnell,  
8 you're not recognized at this point.  
9           MS. BUSHNELL: Okay. Thank you.  
10          MS. PENDERGRASS: Finish your report.  
11          MS. RINES: She was removed. We have her  
12 application. We are presenting it in front of the full  
13 RAB to have her put back on the Board as a RAB member.  
14 We need to vote on this now.  
15          Barbara, are you still -- do you still want  
16 this? Yes or no.  
17          MS. BUSHNELL: I applied, didn't I?  
18          MS. RINES: Okay. All right.  
19          MS. PENDERGRASS: Can you make the motion?  
20          MS. RINES: Okay. So I want to make a motion  
21 that we bring Barbara Bushnell's application -- back  
22 on -- as a -- bring her back onto the RAB as a full RAB  
23 member.  
24          MR. DACUS: Second.  
25          MS. PENDERGRASS: All in favor of the motion as

1 described, say, "Aye."  
2 THE BOARD: Aye.  
3 MS. PENDERGRASS: Those opposed?  
4 MS. RINES: Nay.  
5 MS. PENDERGRASS: Okay. And two opposition.  
6 Anybody abstaining?  
7 MS. WRIGHT: Abstain.  
8 MS. PENDERGRASS: One abstention.  
9 MR. TOMPKINS: Two.  
10 MS. PENDERGRASS: Two --  
11 MR. TOMPKINS: Two abstentions.  
12 MS. PENDERGRASS: -- abstentions. All rightie.  
13 Still seems so that the ayes have it on this. So we  
14 have --  
15 Miss Bushnell, please come to the table, and  
16 welcome back to the RAB.  
17 Okay. Miss Rines --  
18 (Applause.)  
19 MS. RINES: There's one more point --  
20 MS. PENDERGRASS: Okay.  
21 MS. RINES: -- is that Marie Franklin was not  
22 able to stay at the full meeting, and she had submitted  
23 some ideas that she wanted to present. It is attached  
24 to the back of the bylaws minutes. We just need to --  
25 we -- I haven't been able to address these. We're

1 going to address it at the June mee- -- the July  
2 meeting, July 14, which is a Wednesday, 6:30 at the  
3 library.  
4 SFPD is going to be there also. Don?  
5 MR. BROWN: Don.  
6 MS. RINES: SFPD is going to be there, right?  
7 We're going to talk about the lease negotiations?  
8 MR. TISDELL: Franklin.  
9 MS. RINES: Okay. And we are going to discuss  
10 Marie Franklin's and anything else on the bylaws, any  
11 type of amendments.  
12 MS. PENDERGRASS: Okay. Now, this is the way  
13 this process goes: It's --  
14 This is the -- It's this one.  
15 Anyway --  
16 MR. BROWN: Right here?  
17 MS. PENDERGRASS: -- the way this process has  
18 worked in the past -- and correct me if I'm wrong -- is  
19 that you will submit the revised draft -- or proposed  
20 draft bylaws --  
21 MS. RINES: Yeah.  
22 MS. PENDERGRASS: -- proposed amendments, the  
23 whole thing. That has to be done one full RAB meeting  
24 prior to the vote.  
25 MS. RINES: Yes.

1 MS. PENDERGRASS: So is this considered it?  
2 MS. RINES: No.  
3 MS. PENDERGRASS: Okay. So this is not it.  
4 MS. RINES: No.  
5 MS. PENDERGRASS: That will be done next?  
6 MS. RINES: Yeah.  
7 MS. PENDERGRASS: Okay. So that means that  
8 there will be another month to discuss any issues or  
9 changes prior to the final going out and then before the  
10 vote.  
11 MS. RINES: Correct.  
12 MS. PENDERGRASS: Is that clear?  
13 Ms. Pierce.  
14 MS. PIERCE: I just need some clarification on  
15 the first recommendation.  
16 The -- the change in the wording of the bylaws  
17 to clarify the 12-month period cannot apply until we  
18 have adopted that. I understand.  
19 MS. PENDERGRASS: That is correct.  
20 MS. PIERCE: So I just want before we vote on  
21 it to have some clarification about whether or not that  
22 everybody starts with a clean slate or how we're going  
23 to move that forward. And I don't want an answer  
24 tonight. I don't think I can make the next committee  
25 meeting, which is why I'm asking for that.

1 MS. RINES: Okay. I'll make a point of --  
2 (Simultaneous colloquy.)  
3 MS. PENDERGRASS: Actually, that's -- if you  
4 vote for this particular amendment, the way it's worded,  
5 it would automatically mean a clean slate.  
6 MS. PIERCE: But -- yeah. But I want to be  
7 sure so we don't have the same kind of confusion we have  
8 had in the past to bring up those --  
9 MS. PENDERGRASS: Okay.  
10 MS. PIERCE: -- issues.  
11 MS. PENDERGRASS: So you'll just prepare a  
12 response to that. That doesn't --  
13 MS. RINES: Yeah.  
14 MS. PENDERGRASS: -- have to be in the bylaws.  
15 Okay. Very fine.  
16 Any other questions?  
17 Mr. Manuel and then Mr. Campbell.  
18 MR. MORRISON: Question over here.  
19 MR. MANUEL: Basically what I -- what I want to  
20 do, bring up as an issue, is: Periodically I've been  
21 late, and I do apologize for being late; but I usually  
22 always have a representative or somebody here that can  
23 take notes for me or inform me on what's going on.  
24 I've had times where I've come 800 miles to be  
25 at this meeting; and it's not always easy because, you

1 know, I -- I have to go a lot of places, and the traffic  
2 like today was very bad. They had exits blocked off or  
3 whatever.

4           So, you know, I would like to feel that the  
5 efforts that I make to try to not only attend the  
6 meetings, but also to try to participate are considered  
7 and that I don't -- I don't know exactly what to ask  
8 for, but I think that should be something in the way of  
9 fairness considered as to --

10           MS. PENDERGRASS: Mr. Manuel?

11           MR. MANUEL: -- people's health issues,  
12 people's other issues.

13           I -- I think there should be some kind of  
14 mechanism where people can be considered. So that's  
15 all.

16           MS. PENDERGRASS: Mr. Manuel?

17           MR. MANUEL: Yes.

18           MS. PENDERGRASS: Your comments are noted. You  
19 need to direct those at subcommittee level if you have  
20 any other discussion about that or you have some ideas  
21 about that. This is not the --

22           MR. MANUEL: Okay.

23           MS. PENDERGRASS: -- time to fully discuss that  
24 in detail.

25           Yes, ma'am.

1 MS. WRIGHT: Oh, I just wanted clarification on  
2 the 12-month period, which is defined as "12 months from  
3 the month of the current RAB meeting."  
4 MS. RINES: So it's a floating period that's  
5 moving, yes.  
6 MS. WRIGHT: So --  
7 MS. RINES: The rea- -- okay. The logic behind  
8 that is, if you start in a calendar year, though, the  
9 process is, you can have three meetings in 2003 and miss  
10 three meetings in 2002. So you've missed six months of  
11 meetings. We -- That's the only way we can stop that  
12 is to keep run -- moving the 12-month period as -- as  
13 the RAB meeting moves along.  
14 MS. PENDERGRASS: So if you miss one, you've  
15 got 12 months. If you miss two more, then you would be  
16 off.  
17 MS. RINES: It's 12 months back.  
18 MS. WRIGHT: So it's not from January to  
19 December.  
20 MS. RINES: No, it's not.  
21 MS. PENDERGRASS: Okay.  
22 I'm sorry. Mr. Campbell.  
23 MR. CAMPBELL: One clarification, I think, on  
24 good-faith effort. I believe there's going to be  
25 circumstances, and Karen was mentioning she is in a

1 meeting just before. She can't be here exactly at  
2 6 o'clock, but it's a very important meeting. So she is  
3 making a good-faith effort. I think, you know, that  
4 that's something that the RAB takes into consideration.  
5 MS. PENDERGRASS: Again, I say that these --  
6 this discussion needs to be directed --  
7 MR. CAMPBELL: Sure.  
8 MS. PENDERGRASS: -- at the subcommittee level  
9 at the Bylaws Committee to talk about that if there's  
10 some different language or what have you.  
11 But the -- but the reality of it is -- is that  
12 you all need to come up with some language that works  
13 for the majority of folks.  
14 And a -- and I think "a good-faith effort" is  
15 very, very loose 'cause bylaws usually are very  
16 specific, and this is a very loose edition. I mean,  
17 it's not restricting anybody because "good-faith effort"  
18 is anybody's best guess. But anyway, that's what you  
19 all's -- what you want to do.  
20 MR. TOMPKINS: Okay.  
21 MS. PENDERGRASS: So --  
22 MR. TOMPKINS: We'll do so.  
23 MS. PENDERGRASS: Yes, sir. I'm sorry.  
24 MR. MORRISON: Yes.  
25 MS. PENDERGRASS: Did you have a question or a

1 comment?  
2 MR. MORRISON: Yes. It doesn't seem to make  
3 sense here. For the purpose of attending  
4 "recordkeeping, a 12-month period will be defined as  
5 12 months from the month of the current RAB meeting." I  
6 understand that.  
7 But what if someone comes two months from now  
8 and join the RAB? What 12-month period are they using?  
9 MS. PENDERGRASS: From the date that they would  
10 miss the first meeting.  
11 MR. MORRISON: But it doesn't say that.  
12 MR. TISDELL: From the date that they join.  
13 MR. MORRISON: And then there are -- it should  
14 say that --  
15 MS. RAB MEMBER: No.  
16 MR. MANUEL: Don't say.  
17 MS. PENDERGRASS: Okay. Well, we need to work  
18 on that language a little bit.  
19 Miss Rines, I'm sure you can give it another  
20 shot. If you need a little help on that, give me a  
21 call.  
22 MS. RINES: Okay.  
23 MS. PENDERGRASS: All right.  
24 MS. RINES: The other -- the other thing --  
25 MS. PENDERGRASS: Yes, ma'am.

1 MS. RINES: -- was -- so that we can segue into  
2 the next part is that we were talking about attendance  
3 on meetings and whether or not we need to collapse  
4 meetings into two days was a suggestion that all  
5 meetings be held or whether or not some meetings only be  
6 held once every three months or something like that so  
7 that -- 'cause we know that that's part of the structure  
8 of the subcommittees and also whether or not we should  
9 continue to have ad hoc committees.

10 We did cover a lot of things. So I would  
11 really like people to take a -- a good look at what  
12 the -- the meeting minutes said, 'cause I think if -- we  
13 addressed what everybody kind of was talking about.

14 But we do need to look at how the subcommittees  
15 are created, what they are supposed to do, how when we  
16 have these discussions it's supposed to be in the  
17 subcommittee level, not at the full RAB level, because  
18 we have so much stuff at the full RAB level that we  
19 can't get to in-depth discussions.

20 MS. PENDERGRASS: And -- and may I remind  
21 everyone that if there -- if there's nothing to discuss  
22 at the meeting -- and Lea was saying that there wasn't  
23 anyone at her meeting. If there's nothing to discuss,  
24 the meeting can be canceled. I mean, that's always an  
25 option.

1 MS. LOIZOS: Well, yeah. I wasn't saying there  
2 is nothing to discuss. I just was wondering maybe the  
3 topic was not of interest.  
4 MS. PENDERGRASS: Okay.  
5 MS. LOIZOS: Obviously not.  
6 MS. PENDERGRASS: All right. So at this point,  
7 do we have -- Miss Rines, are we -- are you going to add  
8 a -- an alternate subcommittee structure to the bylaws,  
9 or are you going to suggest something? Do you have a  
10 motion?  
11 MS. RINES: I have to go back and look. I  
12 think it was -- No.  
13 MS. PENDERGRASS: Okay.  
14 Then Miss Bushnell?  
15 MS. BUSHNELL: Just a -- a comment, a -- back  
16 thinking again to having to deal with calendar years.  
17 Those bylaws were written by myself; Jill Fox, your  
18 predecessor; Dorothy Peterson; Charles Dacus was on that  
19 committee when we wrote those.  
20 And part of the idea is, you're not trying to  
21 make it difficult for someone to be a RAB member.  
22 And the recordkeeping, I guess the Navy can  
23 afford to have somebody looking back ten months on  
24 something, and that's fine too.  
25 But what we really want is for people to

1 attend, and that was the idea about making sure people  
2 could arrive on time as much as possible if they are  
3 continuously late, or there have been meetings where  
4 people have signed in and have left right away.

5           There was one meeting -- I know Keith will  
6 remember -- at the end of it, there was nobody here.

7           MS. PENDERGRASS: Okay.

8           MS. BUSHNELL: Very few.

9           So the idea is, people -- the attendance has to  
10 do with we are committed to being here, hearing what the  
11 Navy has to offer to us, and then disseminating that  
12 to -- information to the groups that we communicate with  
13 outside of here, and that's part of our important role.  
14 That's one of the initial things we're here for.

15           MS. PENDERGRASS: Thank you. Thank you for  
16 that.

17           So, Miss Pierce.

18           MS. PIERCE: We are still talking about  
19 committees. I -- I have a motion to make.

20           MS. PENDERGRASS: Thank you.

21           MS. PIERCE: And it's only specific to my  
22 committee.

23           I have been -- When I -- when I have the time  
24 to actually facilitate a subcommittee meeting, I have  
25 been trying to schedule them with the Technical Review

1 Committee because the -- basically, the same people who  
2 are going to the Technical Review Committee were also  
3 coming to the Risk Review and Health Committee.

4 I've spoken to the folks that came regularly to  
5 that meeting, and I've considered this. And actually,  
6 what we're discussing and -- and where we go with our  
7 discussions really fits better with what the  
8 Radiological Subcommittee is doing.

9 I am recommending and I will move that the Risk  
10 Review-Health Committee and the Radiological Review  
11 Committee be combined to a single committee -- and I  
12 don't care what the name of it is -- but with the same  
13 charge to -- to look at the same issues that have been  
14 looked at --

15 MS. PENDERGRASS: So the Technical Review and  
16 the Risk Review and Health would all be one?

17 MS. PIERCE: No, no.

18 MR. TOMPKINS: No, no.

19 MS. PIERCE: No, no, no.

20 MR. TOMPKINS: Technical separate Risk --

21 MS. PIERCE: Risk --

22 MR. TOMPKINS: -- and Radiological.

23 MS. PIERCE: -- and Radiological.

24 MS. PENDERGRASS: Oh, I see. I see.

25 MS. PIERCE: Yeah.

1 MS. PENDERGRASS: Okay.  
2 MR. TOMPKINS: 'Cause Risk --  
3 MS. PENDERGRASS: All right.  
4 MR. TOMPKINS: -- in -- in --  
5 MS. PENDERGRASS: And --  
6 MR. TOMPKINS: -- in concert --  
7 MS. PENDERGRASS: Dr. Sumchai, are you feeling  
8 okay with that?  
9 MS. PIERCE: That's my motion. I need a  
10 second.  
11 MR. TOMPKINS: Second.  
12 DR. SUMCHAI: Yeah, that is --  
13 MS. PENDERGRASS: So -- We got it. Wait a  
14 minute.  
15 MS. RINES: I have a friendly amendment to  
16 that.  
17 MS. PIERCE: Sure.  
18 MS. PENDERGRASS: Wait a minute. First let's  
19 just repeat the motion --  
20 MS. RINES: Okay.  
21 MS. PENDERGRASS: -- one more time.  
22 The motion is to combine the Risk Review and  
23 Health Committee with the Radiological Committee, and  
24 we've had a second from Dr. Tompkins.  
25 Now let's open it to discussion; and at this

1 point, if you have a friendly amendment, let's discuss  
2 that.

3 MS. RINES: All right. My friendly amendment  
4 is that the Radiological Committee was an ad hoc  
5 committee.

6 MR. BROWN: Right.

7 MS. RINES: So that was another thing that was  
8 mentioned in the -- the bylaws about if it's an ad hoc,  
9 we have to determine how long it's going to be for. I  
10 think if you're going to combine it, then you should --  
11 we need to not make it an ad hoc anymore.

12 MS. PIERCE: Well, by -- by combining those  
13 two, it becomes one of the standing committees.

14 MS. PENDERGRASS: Okay. But it would --

15 MR. TOMPKINS: It would be --

16 MS. PENDERGRASS: -- still be -- it would still  
17 be --

18 MS. PIERCE: So it would still be the Risk  
19 Review and Health Committee.

20 MS. PENDERGRASS: -- the Risk Review and Health  
21 with an ad hoc committee of -- of radiolog- -- okay.

22 MS. PIERCE: No. No.

23 MR. TOMPKINS: No.

24 MS. PIERCE: They just would have that charge.

25 MS. RINES: Well, we just recently renamed that

1 committee.  
2 DR. SUMCHAI: [Simultaneously speaking] . . .  
3 for half a billion years.  
4 MS. PIERCE: Right.  
5 DR. SUMCHAI: So there's no reason for the  
6 Radiological Subcommittee to be an ad hoc subcommittee.  
7 In fact, I was under the understanding last year that it  
8 had been changed to a full standing committee. I have  
9 requested that.  
10 MS. PENDERGRASS: Okay.  
11 DR. SUMCHAI: And --  
12 MS. PENDERGRASS: Okay.  
13 DR. SUMCHAI: -- it just makes sense that it be  
14 a full standing --  
15 MS. PIERCE: Right.  
16 DR. SUMCHAI: -- committee.  
17 MS. PENDERGRASS: All right. Very fine.  
18 Yes.  
19 MR. CAMPBELL: That was a discussion that we  
20 had in the Membership and Bylaws, that it would be --  
21 MR. RAB MEMBER: Yes.  
22 MR. CAMPBELL: -- a full standing  
23 subcommittee --  
24 MS. PIERCE: Okay.  
25 MR. CAMPBELL: -- one. The second part is if

1 you're going to combine them. Two, the name should  
2 include the "Radiological . . . ."  
3 MS. PIERCE: Okay.  
4 MR. CAMPBELL: So that's a friendly --  
5 MS. PENDERGRASS: Okay. Very fine. Then the  
6 next step of that if -- we have had enough discussion on  
7 it.  
8 Yes, Lea?  
9 MS. LOIZOS: Well, my only question or concern,  
10 I guess, is, I mean, there are a lot of other -- there  
11 are health risk from things other than just --  
12 MS. RAB MEMBER: Right.  
13 MS. LOIZOS: -- radiolog- -- radioisotopes.  
14 MR. TOMPKINS: Right.  
15 MS. LOIZOS: So you are going to be looking at  
16 all the health risks.  
17 MS. PENDERGRASS: Absolutely.  
18 MR. TOMPKINS: Right.  
19 MS. PENDERGRASS: Right. And the Technical  
20 Review will be any review documents that are re- --  
21 being reviewed at the time; and if there's nothing to  
22 review, then you wouldn't meet.  
23 MS. LOIZOS: Right.  
24 MR. BROWN: We just -- we just renamed the  
25 Radiological Committee after Dick Lowman.

1 MS. PENDERGRASS: Yeah. It's --  
2 MR. BROWN: Now how are we going to im- --?  
3 MS. PENDERGRASS: It's no problem.  
4 MR. TOMPKINS: Okay.  
5 MS. PENDERGRASS: It's not a problem. That's  
6 not a problem.  
7 MR. MANUEL: I've had my hand up for quite a  
8 while. Just very briefly -- I was the first one with  
9 my hand up. You just ignored me --  
10 MS. PENDERGRASS: Yes, sir.  
11 MR. MANUEL: -- as usual.  
12 MS. PENDERGRASS: Yes, sir --  
13 MR. MANUEL: -- cute tonight.  
14 MS. PENDERGRASS: -- Mr. Manuel.  
15 MR. MANUEL: I'll be --  
16 (Laughter.)  
17 MR. MANUEL: Anyway, what my question -- what  
18 my question is -- is that -- and I think Dr. Sumchai, as  
19 well as the heads of these other committees, should  
20 answer this question -- is, would there ever be a time  
21 to where your agenda because of the -- the combining of  
22 them all would be so large that you would not be able to  
23 do what your charge is?  
24 Would there ever be a time where these various  
25 groups would just swell -- swell up to the point

1 where --  
2 MS. PENDERGRASS: I think --  
3 MR. MANUEL: -- it would be unmanageable?  
4 MS. PENDERGRASS: Thank you, Mr. Manuel, for  
5 that concern.  
6 However, the subcommittee chairs are the people  
7 to make that determination, and I'm sure --  
8 MR. MANUEL: Well --  
9 MS. PENDERGRASS: -- if it does become -- if it  
10 becomes that unmanageable, they would bring it back to  
11 the --  
12 MR. MANUEL: Well, I'm raising it because I  
13 haven't heard from Dr. Sumchai. I mean, I've heard from  
14 the other people.  
15 But I don't know if you like the idea.  
16 MS. RINES: That's why she stepped down.  
17 MR. MANUEL: No. I'm talking about in terms of  
18 the -- the head of the groups that -- or was the  
19 radiological taken out of that motion?  
20 MR. BROWN: No.  
21 MS. PIERCE: No.  
22 MR. MANUEL: So it's all three.  
23 MR. TOMPKINS: No, no, no, no. Not all three,  
24 J. R. Just two: Risk Assessment that I used to  
25 chair -- and then Karen chaired -- will be combined with

1 the Radiological.  
2 MS. PENDERGRASS: That's it.  
3 MR. TOMPKINS: That's all we're doing. We are  
4 combining it in one because this is a sub- -- almost  
5 like a subset but with specialization.  
6 MR. MANUEL: That's all I was wondering, if it  
7 would be overwhelming.  
8 MS. PENDERGRASS: Okay.  
9 DR. SUMCHAI: Well, no. I think that was one  
10 of the reasons why I withdrew from the community  
11 co-chair election, because I anticipated this.  
12 But the way I think that it could be  
13 logistically handled is to have a agenda designation for  
14 every meeting that deals with human health risk  
15 assessment. But you're absolutely right. There are  
16 areas of health risk assessment that clearly are outside  
17 of --  
18 MS. RAB MEMBER: Right.  
19 DR. SUMCHAI: -- radiological issues. And so  
20 we can schedule special meetings, you know, for -- for  
21 those. But I think that it --  
22 MS. PENDERGRASS: Okay.  
23 MR. MANUEL: I just wanted to hear from her.  
24 MS. PENDERGRASS: Very fine.  
25 Okay. Well, we're going to move forward now

1 with the question. And the question is, do we make this  
2 combination? And if so, all in favor say, "Aye."  
3 THE BOARD: Aye.  
4 MS. PENDERGRASS: Those opposed? Do we have  
5 any abstentions from that vote?  
6 (No verbal response elicited.)  
7 MS. PENDERGRASS: Okay. So we have a combined  
8 committee now.  
9 Our committees now are the Technical Review  
10 Committee still chaired by Lea. We have the Economic  
11 Development Committee that's still chaired by  
12 Mr. Campbell.  
13 And we have a Radiological and Risk Review and  
14 Health Committee that -- that will be talked about  
15 naming later that is chaired at this point by  
16 Dr. Sumchai.  
17 And then we have the Membership and Bylaws  
18 Committee that is still being chaired by Ms. Rines. All  
19 right.  
20 So, yes, sir.  
21 MR. KEICHLINE: Did the motion upgrade the  
22 Radiological Committee to a full standing committee?  
23 Did that officially happen during that?  
24 MS. PENDERGRASS: Well, it's -- actually, it's  
25 a combination. It's a moot point because the Risk and

1 Review was a full standing subcommittee.  
2 MS. PIERCE: Exactly.  
3 MR. KEICHLINE: Okay.  
4 MS. PENDERGRASS: So it's a moot point at this  
5 point.  
6 Whew. All rightie. We just moved through that  
7 just lickety-split.  
8 Now, let's move on to the election.  
9 MR. BROWN: Thank you.  
10 MS. PENDERGRASS: The result of the election  
11 is -- can I have a drum roll, please?  
12 (Attendees simulate a drum roll.)  
13 MS. PENDERGRASS: With all due pomp and  
14 circumstance, we do have a new community co-chair, and  
15 that is Maurice Campbell.  
16 MS. ATTENDEE: Yay.  
17 (Applause.)  
18 MS. PENDERGRASS: What we will talk about  
19 either you remaining as that chair for your subcommittee  
20 or designating that or finding an alternate for  
21 yourself.  
22 MR. CAMPBELL: I think that the next  
23 subcommittee meeting --  
24 MS. PENDERGRASS: -- we can talk about that.  
25 Okay. Very good.

1           Now, at this point, I think we need to say  
2 goodbye, not from the RAB certainly, but from being  
3 co-chair. And I have to say, it's been a pleasure  
4 serving with Mr. Brown. So --  
5           MS. ATTENDEE: Yay.  
6           (Applause.)  
7           MR. TISDELL: Hey, Keith, can I throw the first  
8 tomato?  
9           MR. BROWN: Yeah, you can hear from my attorney  
10 too. Tell you that.  
11          MR. TISDELL: Want my Raiders hat?  
12          MR. BROWN: No.  
13          MS. PENDERGRASS: Okay, okay, okay.  
14          MR. BROWN: Hey, Keith.  
15          (Simultaneous colloquy, laughter.)  
16          MS. PENDERGRASS: Order, please.  
17          (Simultaneous colloquy, laughter.)  
18          MR. FORMAN: All right.  
19          All right. I want to say a few things about  
20 and for Lynne before I present him the -- ye olde plaque  
21 that community co-chair richly deserves.  
22          First of all, I want to say, Lynne, we have  
23 been around together as -- as co-chairs for -- since I  
24 came here, practically, for about two years. And I just  
25 want to say, thank you very much for everything you've

1 done.  
2 I think in the last two years, there's been a  
3 lot of positive change --  
4 MR. BROWN: Right. Exactly.  
5 MR. FORMAN: -- in the way the RAB is conducted  
6 and how productive it is and even in the general  
7 atmosphere that when I first came on board, I said, Hey,  
8 one of the first things I want to do is have kind of a  
9 more productive, more informative, RAB, but also a  
10 kinder, gentler kind of RAB. And --  
11 (Simultaneous colloquy, laughter.)  
12 MR. TOMPKINS: Once we got out the police  
13 station, that happened.  
14 MR. FORMAN: Well, there's been a lot of  
15 changes, and I think everything I can think of has been  
16 positive, and you've been a huge part of that, and I  
17 just want to thank you from the bottom of my heart for  
18 the great two years we had together, and I think this  
19 RAB and all of us owes you a real debt of gratitude for  
20 everything you've done.  
21 MR. BROWN: Okay.  
22 (Applause.)  
23 MS. PENDERGRASS: Speech.  
24 MR. BROWN: Well --  
25 MR. TISDELL: No speech --

1 MR. BROWN: -- first --  
2 MR. TISDELL: -- necessary.  
3 MR. BROWN: First of all, I like to thank  
4 everyone who voted for me for the past two years.  
5 Also, the work that has been done, we have a  
6 long way to go still.  
7 For one thing, the effective community had --  
8 will not have benefited from out here. So we working on  
9 that.  
10 And the cleanup of the -- we can't let the Navy  
11 off the cleanup, certainly.  
12 And I like to thank the producers, the  
13 writers . . . Thank you, though.  
14 (Applause.)  
15 MR. FORMAN: I just want to read the plaque  
16 officially and then give it to Lynne.  
17 It says, "Hunters Point Naval Shipyard  
18 Restoration Advisory Board proudly presents this Award  
19 of Appreciation to Lynne Brown --" capital letters --  
20 MR. BROWN: Right.  
21 MR. FORMAN: "-- for your faithful and  
22 dedicated service as the Hunters Point Naval Shipyard  
23 Restoration Advisory Board Community Co-chair from July  
24 of 2002 to June of 2004."  
25 MS. RINES: Woo hoo!

1 (Applause.)  
2 MS. PENDERGRASS: All right.  
3 MR. TISDELL: Don't get mugged for it.  
4 MS. PENDERGRASS: All right. Okay.  
5 MS. PENDERGRASS: Before we --  
6 (Simultaneous colloquy, laughter.)  
7 MS. PENDERGRASS: Excuse me. We are still in  
8 session, please.  
9 Yes, sir.  
10 MR. FORMAN: Last night?  
11 MS. PENDERGRASS: Keep going.  
12 MR. FORMAN: Okay.  
13 MS. PENDERGRASS: Mis- -- Mr. Forman, please.  
14 MR. FORMAN: Yes, sir.  
15 MR. TOMPKINS: No, no. Go ahead.  
16 MR. FORMAN: Oh, okay. Thanks.  
17 I wanted to give -- now that we're in the --  
18 the mood and the mode here of congratulating people for  
19 what they have done, I want to point out, we need to  
20 give a couple rounds of applause for two people who have  
21 done such dedicated service for us, Debra Moore and Ron  
22 Keichline. I'd like to give them a round of applause  
23 for --  
24 (Applause.)  
25 MR. TISDELL: Picture in the paper?

1           MR. FORMAN: I just want to say, Debra and  
2 Ronald, this has been -- you've done a fantastic job in  
3 the level of organization and the demands put upon you.  
4 This is a pretty dynamic situation, and you always adapt  
5 to some pretty fast-changing circumstances, and you've  
6 done a great --  
7           MR. BROWN: Exactly.  
8           MR. FORMAN: -- job.  
9           MR. BROWN: Exactly.  
10          MR. FORMAN: So . . .  
11          MS. MOORE: Thank you.  
12          MR. KEICHLINE: Thank you.  
13          MR. FORMAN: Now with that, I want to introduce  
14 very quickly here -- there's a new contract with SulTech  
15 to do the RAB operations. With the passing of time,  
16 there's always changing people. I want to introduce to  
17 you some -- what should be some familiar faces with  
18 someone you'll see next month.  
19          And first of all, that's Carolyn Hunter.  
20          If you could stand up.  
21                 (Applause.)  
22          MR. FORMAN: And we're particularly proud of --  
23 he was a YCD graduate, and now he has a career and  
24 employment. He's done a marvelous job at Tetra Tech  
25 EMI, and he's now joined in the community outreach team,

1 John Adams.  
2 (Applause.)  
3 MR. FORMAN: And lastly, we have Tommie Jean  
4 Damrel.  
5 MS. RINES: Tommie Jean.  
6 (Applause.)  
7 MR. FORMAN: Now, with the new contract comes  
8 some slightly different set of rules. Here's where I  
9 get real unpopular.  
10 MR. BROWN: Yeah, yeah.  
11 MR. FORMAN: All right. This is the last RAB  
12 we're going to have where we are allowed to serve food  
13 at the RAB meetings --  
14 MS. ATTENDEE: Boo.  
15 MR. TISDELL: Why?  
16 MR. FORMAN: -- so --  
17 Well, there is a Secretary of Navy instruction  
18 that is now being followed and pointed out and adhered  
19 to, and we were one of the RABs that this applies to  
20 where we were serving food. Many of the RABs did not.  
21 And I'm not allowed to do that anymore. We are not  
22 allowed to do that anymore other than water pitchers and  
23 ice cubes. So we have to adhere to that.  
24 So what we need to do is prepare yourself for  
25 that in some way. And what I'm going to ask during the

1 next month is, I'll be dialoguing with Maurice.  
2           And there's different ways of -- across the  
3 country -- and we'll talk to each other about this.  
4 There's different ways different RABs actually operate  
5 and compensate for that. Sometimes there's potluck.  
6 Sometimes --  
7           MR. BROWN: Right.  
8           MR. FORMAN: -- there's just --  
9           MR. BROWN: Right.  
10          MR. FORMAN: -- certain people that bring  
11 certain things. But we'll start talking about that and  
12 adapting to the new set of circumstances here. All  
13 right.  
14          MR. BROWN: I like to introduce the new TAs  
15 from the EPA, Mr. Mike Boyd and Mr. Clifton Smith.  
16           (Applause.)  
17          MS. PENDERGRASS: Okay. And then one final  
18 thing before we -- before we adjourn tonight, and I --  
19 this is from me.  
20          You all realize that even though you guys are  
21 dedicated to all of this, that all of the RAB members  
22 that are sitting around this table month after month  
23 really heart-wrenching over committee structures and how  
24 much and doing all these -- these minutes and all of  
25 that sort of thing, these people are not paid, not

1 compensated. This is totally a volunteer community  
2 commitment on their individual parts, and a lot of that  
3 takes a lot of sacrifice.  
4           So people that we were clapping for earlier  
5 tonight, you know, all this is --  
6           MR. BROWN: Right.  
7           MS. PENDERGRASS: -- great and have great  
8 commitment and sensitivity in our community but are,  
9 nevertheless, being compensated.  
10          So I think that all the RAB members, please,  
11 that are volunteers, would you please stand up, and we  
12 need to give a round of applause.  
13           (Applause.)  
14          MR. ATTENDEE: Stand up. Stand up.  
15          MR. TISDELL: I'm not going to -- I'm not going  
16 to stand up. I'm waiting for my check after the  
17 meeting.  
18          MS. PENDERGRASS: All right. And with that --  
19          MR. TOMPKINS: Before we close. I love you,  
20 but --  
21          MS. PENDERGRASS: Mr. Tompkins, please. Feel  
22 free.  
23          MR. TOMPKINS: I have five minutes. Five.  
24          Keith, on -- on going out to look at the bomb  
25 that I asked in terms of that for the shelters and --

1 and the bomb shelters and all, take a few people with  
2 you as well along with a couple others so it's like open  
3 piece rather than just pictures.  
4 MR. BROWN: We just -- We done that --  
5 MR. TOMPKINS: I know, but I'm just asking.  
6 MS. PENDERGRASS: Okay. So --  
7 MR. FORMAN: Didn't we resolve that?  
8 MS. PENDERGRASS: No. Were you going to do a  
9 field trip? Because you came back looking --  
10 MR. FORMAN: During the break, we actually  
11 got --  
12 MS. ATTENDEE: Oh, no.  
13 MS. BROWNELL: What happened?  
14 MR. TISDELL: I want to know --  
15 MS. PIERCE: What happ- --? Yeah, we want to  
16 know, what happened?  
17 MR. TOMPKINS: What happened? What's the word  
18 on it?  
19 MR. BROWN: The X-Files took place.  
20 MS. ATTENDEE: All right.  
21 MS. PENDERGRASS: Mr. Forman, please.  
22 MR. TOMPKINS: You glow.  
23 MS. PIERCE: It disappears. It disappears.  
24 MR. FORMAN: Now, who all was there with me?  
25 Just so it's me, Maurice, Lynne Brown, Pat Brooks. Who

1 else? Lani Asher. Who else was there?  
2 MR. BROOKS: The driver.  
3 MR. FORMAN: Ralph Pearce, our driver.  
4 Thank you, Ralph.  
5 MR. BROOKS: Runaway Ralph Pearce.  
6 MR. FORMAN: Who else was there?  
7 Okay.  
8 MR. TOMPKINS: I'll --  
9 MR. FORMAN: I didn't -- We went out, we went  
10 down the road, and we saw -- we went to the place that  
11 Jim and -- is Jim still here, Jim Ansbro?  
12 MR. BROWN: No.  
13 MR. FORMAN: Okay.  
14 MR. BROOKS: He was with us.  
15 MR. FORMAN: He was the one of us that didn't  
16 return from the --  
17 MR. BROWN: Right.  
18 MR. FORMAN: -- X-Files.  
19 All right. We went out there and we checked it  
20 out, and it was -- the place that Jim had pointed out to  
21 was a concrete retaining wall. There's evidence there  
22 that there has been in the past landslides and stuff.  
23 Pretty steep wall that goes up to, I would judge, about  
24 30 feet or so.  
25 MR. TISDELL: No.

1 MR. FORMAN: Pretty tall wall.  
2 MR. BROOKS: Twenty feet, at least.  
3 MR. FORMAN: Yeah.  
4 It's a concrete retaining wall, and it's got a  
5 beam in it that -- that actually connects to joiners  
6 that go into the hill all to try and support it, and  
7 that's in back of Building 813 there. We opened the  
8 gates, and we went in there and we checked that out.  
9 So --  
10 MS. PENDERGRASS: There's no door?  
11 MR. FORMAN: No.  
12 MS. PENDERGRASS: There's no bunker?  
13 MR. FORMAN: There's no --  
14 MR. TOMPKINS: Where was the ammunition --  
15 MR. TISDELL: Yes.  
16 MR. TOMPKINS: -- bunker? Because the Navy --  
17 MR. BROWN: The ammunition bunker stuff.  
18 (Simultaneous colloquy.)  
19 MR. TOMPKINS: Okay.  
20 MS. PENDERGRASS: All right. Very good.  
21 MS. RINES: All rightie, then.  
22 MS. PENDERGRASS: Mr. --  
23 MR. TOMPKINS: Yeah.  
24 MS. PENDERGRASS: Mr. Tisdell.  
25 MR. TOMPKINS: No, no. That's good.

1 MR. TISDELL: Yes. Now, you say that hill is  
2 made of serpentinite, right?  
3 MR. FORMAN: Amongst other things.  
4 MR. TISDELL: Well, serpentine and, you know,  
5 all that -- that hard stuff. How is that going to slide  
6 down a hill, man? I live up there. I tell you, you  
7 know, I -- I look at the wall every day. I live -- you  
8 know, and people say it's a retaining wall. But there's  
9 no evident [sic] of that dirt moving. That's a --  
10 that's a rock.  
11 MR. BROWN: He's talking --  
12 MR. TISDELL: Solid as a rock.  
13 MS. PENDERGRASS: Okay. Thank you,  
14 Mr. Tisdell.  
15 MR. TISDELL: Thank you.  
16 MS. PIERCE: Otherwise, the X-Files occur.  
17 MS. PENDERGRASS: All right. Unless there's  
18 something that we need to add to our next month's agenda  
19 or that's pertinent --  
20 MR. TOMPKINS: Before --  
21 MS. PIERCE: We have something.  
22 MS. LOIZOS: I just wanted to suggest, I -- I  
23 think the idea of going on a field trip is a good one.  
24 It's been a while since we have gone out to the site  
25 together. So I was going to suggest that we go to these

1 zero-valent iron treatability studies site.  
2 MS. PIERCE: Yeah.  
3 MS. LOIZOS: Ryan said that they are going to  
4 start injecting soon, and it seems like maybe while the  
5 equipment is here -- not while they are injecting, but  
6 while the equipment is around so we can understand how  
7 it works a little bit better and just get a visual.  
8 MS. PENDERGRASS: Okay.  
9 MS. LOIZOS: That was my suggestion.  
10 MS. PENDERGRASS: Do you want to -- want to  
11 make that into a motion and ask the Navy to do that?  
12 MS. PIERCE: So moved.  
13 MR. TOMPKINS: So moved.  
14 MS. PENDERGRASS: Does everybody --? Okay.  
15 Well, it sounds like we have consensus on that.  
16 MS. PIERCE: Yes.  
17 MS. PENDERGRASS: There's no objection.  
18 So, Mr. Forman --  
19 MR. TOMPKINS: Follow-up.  
20 MS. PENDERGRASS: -- can we -- we'd like to add  
21 that as a follow-up action item to -- for you to  
22 schedule a field trip for that.  
23 MR. FORMAN: Yes, ma'am. I think that's a  
24 great idea.  
25 MS. PENDERGRASS: Very good.

1 MR. TOMPKINS: One of the follow-up --  
2 MS. PENDERGRASS: Mis- -- Mr. Campbell?  
3 MR. CAMPBELL: Yeah. What is mentioned, the  
4 Navy is not going to be coming up to all the  
5 subcommittee meetings. It's going to be every other  
6 one, from my understanding. Possibly budgetary things?  
7 MR. FORMAN: No. My understanding was that  
8 when you were at the last Economic Development  
9 Subcommittee meeting --  
10 MR. CAMPBELL: Not just that committee but  
11 others --  
12 MR. FORMAN: You --  
13 MR. CAMPBELL: -- too.  
14 MR. FORMAN: You had voted to go every other  
15 month by month?  
16 MR. CAMPBELL: By month, yeah. But I  
17 understood there was some restrictions.  
18 MR. FORMAN: No. We're still -- we're still  
19 being -- We're only coming to subcommittee meetings  
20 that we're invited to.  
21 MR. CAMPBELL: Okay.  
22 MS. PENDERGRASS: Okay.  
23 MR. CAMPBELL: I wanted to be clear on that  
24 because --  
25 MR. FORMAN: Sure.

1 MR. CAMPBELL: -- if we have something that's  
2 important, then we are going to request that.  
3 MR. FORMAN: Sure.  
4 MR. CAMPBELL: Thank you.  
5 MR. FORMAN: My only thing is -- and you've  
6 heard this tonight. My only plea to everybody is,  
7 when -- when the subcommittee chairs hold a meeting,  
8 like Lea did one time and Dr. Sumchai has, it's a little  
9 frustrating when we show up and they can't get other  
10 members to show up. And that's what I'd like to  
11 encourage is participation.  
12 MS. PENDERGRASS: All right. Dr. Tompkins,  
13 would you like to have a final say?  
14 MR. TOMPKINS: Not a say, just a request on  
15 action items.  
16 MS. PENDERGRASS: Please.  
17 MR. TOMPKINS: As a follow-up on parcel similar  
18 to the same technology methodology being employed on  
19 "C," on "D" when they had the discharge of the potassium  
20 permanganate into the bay, I would like to find out, was  
21 it "C" or "D"?  
22 MR. BROOKS: "C."  
23 MR. TOMPKINS: "C."  
24 I would like a follow-up on that, on the  
25 results, because we were given a presentation, and there

1 was discussion, but in terms of there was no true  
2 clarity on how it got into the sewage drain. There was  
3 still ambiguity. There wasn't definitive and also how  
4 successful was it and why potassium permanganate was  
5 used when it's also used for dealing with isotopes.  
6           So if we can get in a presentation --  
7           MR. FORMAN: Okay.  
8           MR. TOMPKINS: -- to the RAB --  
9           MR. FORMAN: Could I --?  
10          MR. TOMPKINS: -- at another date and time?  
11          MR. FORMAN: Okay, now. We'll -- we'll look it  
12 up.  
13          MR. TOMPKINS: So we can put it on your  
14 calendar.  
15          MS. PENDERGRASS: So you'll just take that  
16 under --  
17          MR. FORMAN: Yeah --  
18          MS. PENDERGRASS: -- kind of a suggestion?  
19          MR. FORMAN: -- because it's an older item  
20 instead of a current event.  
21          MS. PENDERGRASS: Okay. So it's not an action  
22 item, but you'll trust that that gets handled at a  
23 subcommittee?  
24          MR. TOMPKINS: Sure.  
25          MS. PENDERGRASS: Very good.

1 MR. TOMPKINS: Them send report fine too, or if  
2 it needs to be an item for everybody.  
3 MS. PENDERGRASS: Okay. We are adjourned.  
4 (Off record at 8:01 p.m., 6/24/04.)

CERTIFICATE OF REPORTER

I, CHRISTINE M. NICCOLI, Certified Shorthand Reporter of the State of California, do hereby certify that the foregoing meeting was reported by me stenographically to the best of my ability at the time and place aforementioned.

IN WITNESS WHEREOF I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

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CHRISTINE M. NICCOLI, C.S.R. NO. 4569