



UNITED STATES DEPARTMENT OF STATE  
OVERSEAS BUILDINGS OPERATIONS



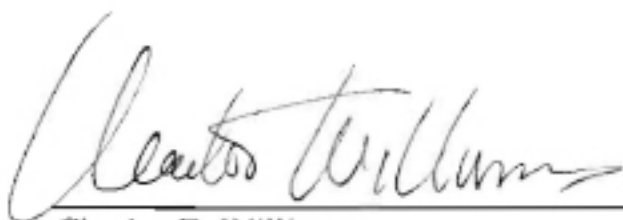
# INDUSTRY ADVISORY PANEL

SEPTEMBER 20, 2007



I, Charles E. Williams, certify that this is the true and correct version of the Minutes of the September 20, 2007 Meeting of the Industry Advisory Panel.

Signed:

A handwritten signature in cursive script, reading "Charles E. Williams", written in black ink. The signature is positioned above a solid horizontal line that spans the width of the text block below it.

Charles E. Williams  
Director/Chief Operating Officer  
Overseas Buildings Operations  
U.S. Department of State

October 4, 2007

UNITED STATES DEPARTMENT OF STATE  
OVERSEAS BUILDINGS OPERATIONS

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INDUSTRY ADVISORY PANEL

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September 20, 2007  
9:00 a.m.

Department of State  
2201 C Street, N.W.  
Room 1107  
Washington, D.C.

CHAIR: GENERAL CHARLES E. WILLIAMS  
Director/Chief Operating Officer  
Overseas Building Operations

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MARVIN OEY, Ph.D., ASCE  
SUMAN SORG, FAIA, AIA  
CRAIG UNGER  
JOHN O. WOODS, JR., PE, ACEC

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## I-N-D-E-X

<u>AGENDA ITEM</u>	<u>PAGE</u>
Introduction by Gen. Williams	5
1. What is New in HVAC Systems?	
DOS/OBO Champions:	
David Langfitt	36
George Glavis	41
Questions and Comments	49
IAP Champions:	
Darryl Horne	50
Marvin Oey	53
Questions and Comments	61
2. What is New in Sustainable and Environmental Design?	
DOS/OBO Champions:	
Bill Miner	80
Donna McIntire	83
IAP Champions:	
Suman Sorg	90
Nancy Goshow	94
Craig Unger	97
Questions and Comments	100
3. What is New in Value Engineering?	
DOS/OBO Champion:	
Kathy Bethany	111
IAP Champions:	
Greg Knoop	122
John Woods	126
Greg Knoop	126
John Woods	128
Greg Knoop	128
John Woods	134
Greg Knoop	136

## I-N-D-E-X (cont.)

<u>AGENDA ITEM</u>	<u>PAGE</u>
Questions and Comments	136
4. What is New in Property Acquisition and Disposition?	
DOS/OBO Champions:	
Stephen Stomber	150
Keith Wilkie	151
IAP Champions:	
Clare Archer	165
Regan McDonald	168
Questions and Comments	168
Attendees' Comments	172
Final Panel Comments	195
Wrap-up and Adjourn	198

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

2 (9:00 a.m.)

3 GENERAL WILLIAMS: Good morning.

4 First I would like to welcome you back,  
5 those who have been here before, and particularly  
6 our loyal visitors who come almost each time. This  
7 is our Fall Industry Advisory Panel. We're running  
8 just a tad bit late this time, in terms of the time  
9 that we are hosting this, but nevertheless, we are  
10 here and we are assembled.

11 And first of all, after the welcome, I  
12 would just like to point out that we have several  
13 new panel members which I would like to officially  
14 welcome. First of all, we have one of our former  
15 panel members, Craig Unger, who is substituting for  
16 Bill Flemming and, Craig, delighted to have you  
17 back.

18 MR. UNGER: Thank you.

19 GENERAL WILLIAMS: We told you when you  
20 left that this would probably happen over the course  
21 of the time that your colleague was serving.

22 We want to welcome Clare Archer. Clare, if  
23 you would just wave your hand so that others can get  
24 to know you. Clare is our new member representing  
25 the AGC, and this is her first opportunity to

1 participate on our panel. Welcome.

2 Also, Greg and you say your last name.

3 MR. KNOOP: Knoop.

4 GENERAL WILLIAMS: Knoop. Okay.

5 Greg is representing our SAVE International  
6 and Valley Value Engineering side of the house, come  
7 to us with excellent resume and we are just  
8 delighted to have Greg as a part of us.

9 And then Regan McDonald from Society of  
10 American Military Engineers is also a new member.  
11 And we are delighted to have you as well. I know  
12 that you were in attendance last time, just to see  
13 if you liked this. And so apparently you did. You  
14 came back.

15 And John Woods. Okay, John is representing  
16 American Council of Engineering Companies. And  
17 John, welcome to the panel.

18 MR. WOODS: Thank you.

19 GENERAL WILLIAMS: Those are the new  
20 members. And of course, we are delighted to see you  
21 back with us, Nancy, again. And of course, Darryl,  
22 delighted to have you as well. And Suman, we are  
23 delighted to have you.

24 And one of our panel members is a little  
25 bit delayed, but will be joining us shortly.



1           Are there any administrative matters,  
2 Michael, that we should discuss?

3           MR. SPRAGUE: Just remember to speak into  
4 the microphone when you're there.

5           GENERAL WILLIAMS: Okay.

6           MR. SPRAGUE: Turn the light on, so Tim can  
7 hear you and get all your words down.

8           GENERAL WILLIAMS: Okay, good.

9           MR. SPRAGUE: And we'll probably make some  
10 short announcement right before lunch.

11           GENERAL WILLIAMS: Right. I think each of  
12 you know that because of the way we're chartered, we  
13 have a pretty accurate account of what we do here at  
14 the panel meeting. And obviously this is not to  
15 discourage anyone, because we just want transparency  
16 and a full disclosure, and that's what Tom does for  
17 us, and he does it quite well.

18           Okay. We're going to get started this  
19 morning with an overview of the state of the  
20 organization. We do this each time, so that you  
21 have a clear understanding of where we are today.  
22 And you can help pass the word along and be informed  
23 of what we are doing.

24           This first slide that I am going to  
25 present, if you would, focus now to your left and

1 right front of the room you will see the PowerPoint,  
2 it sort of gives the mandate of what our  
3 organization is about. We have to put in place very  
4 carefully facilities that serves as the platform for  
5 spread and diplomacy.

6           This next slide gives you some facts.  
7 You've seen these before, but we are emphasizing  
8 them because it is important to know where we are.  
9 In 2000, the Department was essentially delivering a  
10 facility a year. And of course, you see the track  
11 record that has occurred since that time, 15 last  
12 year, and we own a glide path for 16 this year.

13           And I'm a little scratchy in the throat  
14 because we just left a wonderful ceremony yesterday  
15 in Panama. And actually, it was the day before but  
16 we flew all day getting back yesterday. But now  
17 that facility is open. It's one of the largest  
18 facilities that we have opened in Panama and it's a  
19 wonderful new addition.

20           The operation and focus of the organization  
21 listed here, basically is just straightforward.  
22 It's about performance, accountability, discipline,  
23 and credibility. I was speaking at an organization  
24 earlier in the week and someone commented that well,  
25 that's the way the private sector works. Well, we

1 didn't exactly have that in mind when we set this  
2 out, but we just simply wanted to put the focus  
3 around what we thought was important at the end of  
4 the day. And these four guiding principles are what  
5 we base the organization's focus around. And it's  
6 about communication and transparency.

7           This next slide is new for you and it just  
8 gives you a notion about the dozen means we have for  
9 communication that we offer our people and those who  
10 are associated with us. There are 12 separate entry  
11 points into our organization where you can speak to  
12 us, you can interact with us, whatever. It talks  
13 about some that are clearly for the OBO family and  
14 right down through all of the meetings and et  
15 cetera, in addition to this panel. So there's a  
16 dozen plus one opportunities and avenues to interact  
17 with our organization.

18           This next slide speaks to something that we  
19 have been working on pretty hard over the last year  
20 and a half. It's a new way to think, new way to  
21 build, and it speaks about what we are basing this  
22 on and the shifting thinking around our business.

23           And that gave rise to the 20 management  
24 concepts that we introduced about a year and a half  
25 ago and they are listed on the next slide. I'm not

1 going to go through them. Everyone, I think at this  
2 point, are generally familiar with the Williams 20.  
3 They are listed on both of these slides.

4           Then of course, moving on to another  
5 process introduction that you have not seen before,  
6 but I want you to be aware of it together with the  
7 communication side. We have a 14-step acquisition  
8 process of obtaining a new facility. And I'm sure  
9 that many people external to our organization  
10 doesn't quite understand that. We select sites and  
11 we have a protocol for that. A very defined  
12 protocol. We purchase a site through a defined  
13 process. And our sites are approved by the  
14 Congress. So when there is some discussion about a  
15 site, then we're all in this one together because,  
16 before we move forward, Congress has to approve the  
17 site and also the purchase.

18           Project planning is done the same way on  
19 every single project. Acquisition of the design  
20 build team is another bureau's responsibility, the A  
21 Bureau's responsibility. OBO does not select  
22 contractors, consultants or anything in procurement.  
23 OBO does not.

24           The certification process is a process that  
25 we must go through because it's associated with the

1 security side of our house. But just so that you  
2 know, and Suman and some of the others are very  
3 familiar with this process who work with us, that we  
4 cannot move forward to build, to construct, to do  
5 anything, to spend any money on that portion of the  
6 project, until this certification is approved and  
7 sent to the congress. I'm just letting you know the  
8 number of hands and entities that are involved in  
9 our business.

10           So now you see two things. We cannot  
11 purchase a site or move forward on one without  
12 congressional approval, and we cannot build in any  
13 city with a classified component without the  
14 approval of the drawings and the certification of  
15 the Congress.

16           The on-site supervision team is put in  
17 place and we have protocols about that. It's always  
18 led by an American. And that individual is selected  
19 and he or she has a team of other Americans and some  
20 qualified third country nationals or host country.

21           The notice to proceed for the design build  
22 team or the construction team, if it's a design  
23 build bill, is a methodical process. We have a  
24 protocol that allows that to take place. And then  
25 the project about somewhere between 97 and 98

1 percent for the builders in the room, we reach what  
2 we call substantial completion. That's the major  
3 work done. Not all things are prettied up. We have  
4 not cleaned up. We haven't done our final  
5 inspections. We haven't done the commission. We  
6 haven't done any of that. We reach substantial  
7 completion with the major pieces of construction, to  
8 the point that we can say that we are about there.  
9 Everyone knows who has built anything, even if it's  
10 been minor repairs in your home, you know that the  
11 last three or four percent is the toughest part.

12           So, the next part of this is an  
13 accreditation process that many of you may not have  
14 known. But before the project can be advanced to  
15 the certificate of occupancy level, it goes through  
16 a full accreditation and final inspections on  
17 functionality.

18           So, that's the process for every new  
19 project and most of the other projects that have,  
20 even if it's a rehab that has a high dollar value.  
21 But I'm speaking now for the new information.

22           And then of course, once all that's done,  
23 the certification is done, then the issuance of a  
24 certificate of occupancy. And sometime between  
25 accreditation or at the tail end of accreditation, I

1 personally make a visit to each one of the sites.  
2 If I am unable to go, Joe will go for me and we walk  
3 the entire site from the standpoint of just making  
4 certain that everybody who is going to live and work  
5 there are comfortable. We don't get involved in the  
6 accreditation processes or any of that. We just  
7 walk the site and make certain that yes, it is in  
8 fact here and everybody's comfortable. Generally,  
9 the furnishings and that type of thing is all in  
10 place by that time.

11           And then a certificate of occupancy, if  
12 it's not already been issued, is issued and then the  
13 post may move in. Now the accreditation process is  
14 generally, the allocated time, is about 60 days  
15 between substantial completion until we reach that  
16 point.

17           Our contractors work along with us. We're  
18 dealing with punch lists during that period of time.  
19 We're tidying things up. We're getting things  
20 right. Sometimes we have to do a few things over  
21 and correct those things. Nothing unusual about  
22 that. Anybody who has been around construction for  
23 about 15 minutes knows that. So it's not an issue.

24           And then of course, there is a formal  
25 turnover process where we literally take the project

1 director and the facilities manager and we transfer  
2 the documents. There will normally be a punch list,  
3 even at formal opening, because these are huge  
4 facilities and there is a little something that  
5 needs to be tidied up. We talk about warranties and  
6 all of that business during this transfer  
7 arrangement and they actually sign pieces of paper.  
8 I'm releasing it and you've got it.

9           And then at that point, the building part  
10 of this is taken care of. And then the contractor  
11 is finally released of responsibilities, once all  
12 the punch list items are taken care of. That is the  
13 process, a very methodical process been in place for  
14 at least, at this level, for six years that I know  
15 of. And I'm sure before my time, they were  
16 something on this order.

17           Okay. What we have completed since we last  
18 met, we had substantial completion in Algiers,  
19 Managua, Panama City, and Rangoon.

20           Okay, Sofia, Bulgaria is listed here next  
21 because we are very happy that we have, and you saw  
22 some of the publication outside, we've really been  
23 into greening ourselves as much as we can. We  
24 recognize that this is an area where we want to be  
25 involved. We have some very good people. Donna



1 McIntire sort of heads this up for us, together with  
2 others in the organization. But we're very serious  
3 about becoming green in a lot of different ways.  
4 This just happened to be our lead certification for  
5 a big embassy compound on a ten-acre site in Sofia,  
6 Bulgaria.

7           Now, this list shows what the stewardship  
8 has been about. You see 52 new facilities that have  
9 been put in place for our people over the last six  
10 and a half years. This is 52 facilities that our  
11 people did not have six and a half years ago. And  
12 obviously, we are very proud of that.

13           Sixteen of those are in Africa. Ten are in  
14 Europe, the Europe region, and ten are in the  
15 western hemisphere. That would either be pretty  
16 much the Caribbeans and south. So you can see what  
17 we've been doing.

18           But the important thing is that this chart  
19 here is the most prominent of all that we will  
20 present, with the exception of one more at the end.  
21 We have taken almost 15,000 people out of harm's  
22 way. They are now in facilities that we consider to  
23 be safe and secure and they were no in facilities  
24 there were safe and secure six and a half years ago.  
25 So you, as a taxpayer, you should know that, and if

1 you every have to give a small speech of about two  
2 or three seconds, that's the speech to give, they  
3 have done 52. Because let me tell you, nothing else  
4 in the grand scheme of things, we are about getting  
5 people out of harm's way. Remember our mandate from  
6 the very beginning. And the real question is, have  
7 you done that? And so that's where we are with  
8 that.

9           And you can see the projections even  
10 through 2008 where we expect to be. We will be  
11 close to 16,000 at the end of '08.

12           Now, in addition to the 52 that we have  
13 done and in the process of passing the last two or  
14 three over to post, we have 29 that are under  
15 construction, design or construction. And you can  
16 see the value there. It's slightly over three  
17 billion dollars. We have other projects, as I  
18 mentioned, some rehabs, you see the number there,  
19 and so on. I'm not going to go through all of  
20 these.

21           But you also see that there are 76 new  
22 projects, just like we have just talked about, that  
23 are in our plan going forward. So, you can see, we  
24 still have work to do. We have done about 42  
25 percent of the identified problem. When we arrived

1 in 2001, and Joe and others who were here before,  
2 know somewhere around, between '98 and 2000, our  
3 diplomatic security did a survey. They led a survey  
4 that identified over 195 buildings then that our  
5 people were using. These were embassy consulates,  
6 et cetera, that did not meet security standards. So  
7 you can see the dent that we have made in them with  
8 52 done and another 29 being worked on. Quick math  
9 gets us to about 81 and that can be easily netted  
10 out of 195, and you can see where we are.

11 We awarded these facilities in 2006, just  
12 for your information. We planned to make awards and  
13 there will be some announcements in the next few  
14 days regarding these locations, and more to come on  
15 these awards.

16 I can say this, that we still have good  
17 competition with our projects around the world.  
18 We're in very difficult locations, but we have been  
19 encouraged, quite frankly, where we are with that.  
20 And things still look viable for us.

21 I'm going to skip over the next chart.  
22 I'll come back to it at the very end. So just  
23 assume that you didn't see it, but I'll be back.

24 The new embassy construction is what I want  
25 to show you now because you know a lot of discussion

1 takes place, but you have to realize that you have  
2 to attend a meeting like this and see for yourself  
3 exactly what is taking place.

4           So this is our standard embassy design.  
5 This design did not cause the water-cooled chillers  
6 to create problems for us. Design had nothing to do  
7 with that. Obviously, that's a mechanical problem  
8 and our set design did not have anything to do with  
9 that. But this is the master plan of what our  
10 design looks like. We generally want ten acres of  
11 property so that we can do what we must do. We have  
12 some expansion space. We put a wreck package in  
13 place. The landscaping is beautiful, as you will  
14 see later on. But that's the complex we try to  
15 deliver the customer versus one building or so under  
16 the previous construct. Okay?

17           Now, so, let's go through. I'm going to go  
18 fast. This is Dohar in the Emirates on your left,  
19 Kampala, Uganda on the right, lower left. We have  
20 four on this slide. Bogotá, USAID Tunis new embassy  
21 compound lower left, Darussalam and USAID on the  
22 upper right and lower.

23           This has twelve. I'm sorry, six. Abu  
24 Dhabi in the Emirates, Zagreb in Balkans, Istanbul,  
25 Turkey, big consulate Nairobi in Kenya, Sao Paulo,

1 Brazil, and Lima, Peru.

2           And Michael, what happened to Lima? You're  
3 in trouble when I can look at them and tell what  
4 they are. Oh, it's up there. It just didn't show  
5 on my chart. Okay.

6           Okay, interim facilities in Baghdad,  
7 interim in Kabul, Sofia, Bulgaria, which is now  
8 green, and Dili in East Timor. Abidjan and Côte  
9 d'Ivoire, Kabul NEC. And let me say something about  
10 Abidjan because it's got a little bit of attention  
11 of late. I think everyone knows that we went  
12 through two wars. We had, we call them wars because  
13 they were ordered departures, people were shooting  
14 and all of this. So whatever it was, it closed down  
15 our activity. Our contractor hung in there with us,  
16 285 Ivorians who were working with us. And  
17 incidentally, ladies and gentlemen, we have foreign  
18 workers on every single job we have. There is  
19 nothing unique about foreign workers. Foreign  
20 workers was not just invented a couple of years ago.  
21 They have been around a long time, and that's a good  
22 host country lash-up for us. And it allows our  
23 contractors to get work done that can be done by  
24 non-Americans. And then, of course, Kabul, Cape  
25 Town, and Frankfurt.

1           We have, this chart shows another six,  
2 Luanda in Angola, Phnom Penh, Tashkent in  
3 Uzbekistan, Tbilisi, Georgia, which is near Russia,  
4 Yaoundé in West Africa, Yerevan in Eastern Europe.

5           This next one shows Astana in Kazakhstan in  
6 Eastern Europe, and then of course Bamako in Mali.  
7 And Bamako has been an area, I mean been a location  
8 that has gotten some attention of late around  
9 chillers. We'll get back to that a little bit later  
10 on.

11           Belmopan. I'll tell you a little something  
12 about Belmopan. We just had a horrific storm that  
13 you know went through. One of the reasons for  
14 moving this particular embassy site 50 miles to a  
15 higher location was because the coastal area was  
16 consistently flooded and hit by storms. So, quite  
17 frankly, the post gained two things here. Number  
18 one, getting out of the wet area and number two,  
19 getting into a new facility. It comes with housing.

20           At the time that we broke ground, there was  
21 not any concept for housing. And a couple of  
22 entrepreneurs attended the groundbreaking and they  
23 were interested in maybe trying to help in this  
24 respect. We discussed this with all needed to be  
25 involved and decided to try to advance a build to

1 lease concept for housing. Fortunately, through a  
2 lot of hard work and pushing and et cetera, we were  
3 able to get housing at the same time, including a  
4 chief-of-missions residence at the same time we  
5 completed the construction. So we thought this was  
6 an excellent piece of government.

7           Then of course, Bridgetown, which was a  
8 white elephant when I arrived. We got that ongoing.  
9 It's up on and running. It's been delivered.

10           These are four slides here that covers  
11 Conakry, Guinea, Dushanbe in Tajikistan, and of  
12 course, you can see the USAID, then Freetown in  
13 Sierra Leone.

14           This is another four here. You can see the  
15 follow-on work in Kabul, Kingston, Jamaica, Kampala,  
16 USAID now in Lomé, Togo.

17           This next one shows the Nairobi USAID  
18 facility, one of the largest in Africa, Phnom Penh,  
19 and the Tirana annex.

20           And then, of course, Athens, Greece. We  
21 did a little green in there. It was just recently  
22 opened. This is an annex to the existing complex.

23           Accra, Ghana was opened a few months past.  
24 A beautiful facility, it has a USAID component as  
25 well. And you can see some of the shots of the

1 interior.

2           Bogotá in Colombia, a very large annex in  
3 place. Kathmandu in Nepal opened a couple of months  
4 ago, and we've been able to see that facility as  
5 well. And this is the annex that is part of that.

6           This next project shows Managua in  
7 Nicaragua. We're in the final walkthrough turnover  
8 stage there for this NEC. It's obviously at  
9 substantial completion. It's had its accreditation,  
10 and we are punching and doing some final testing and  
11 commissioning.

12           This is a USAID facility. This is a  
13 facility in Panama, which I told you we just opened  
14 two days ago. This photograph here was taken a few,  
15 maybe a month ahead. This is a real, real,  
16 beautiful site on the side of a hill. Everything  
17 fits well, looks nice.

18           So, Rangoon in Burma, we were out about  
19 three weeks ago in Burma to open this facility. And  
20 that was number 50th. Notice you see that at the  
21 bottom. And of course, that place, you know, with  
22 all the issues that are going on there, they were  
23 quite proud to do this.

24           I made a comment the other day to staff  
25 that after opening these 50 plus facilities, I've



1 seen more people cry than smile. So, it's all  
2 relative to who is being affected by this. But this  
3 50th completion was quite a celebration for host  
4 country people, who were seeing for the first time  
5 something that represented a new way of life. So,  
6 that we were very proud of.

7           Algiers, as I mentioned, is done and we're  
8 working through the final testing, and punch list,  
9 and tidying some things up.

10           This shows the 29 are under construction  
11 that we mentioned as well. You can read the list so  
12 you can see generally where we are. And here they  
13 are, this is Kigali in Rwanda, and this should be a  
14 January, maybe Christmas completion.

15           Berlin will be around Easter next year.  
16 You know we're in very tight quarters there working  
17 through that. Berlin will be a few months late.

18           Port-au-Prince, you know that we worked  
19 through some very tough goings there. This should  
20 be late spring next year, maybe a little earlier.  
21 It will be also several months late because of the  
22 stoppage and start for the installation. But  
23 nevertheless, we are pressing along.

24           Quito in Ecuador would be a late summer.  
25 Next. Ciudad Juarez would be fall of next year.

1 And Khartoum in Sudan. I don't know if you've been  
2 following the activities in Sudan, but this is a  
3 very, very tough situation for us. We have an  
4 absolutely fantastic contractor who is working with  
5 us, but all of us will run out of wherewithal if we  
6 do not get some additional help from the host  
7 country. We're having some big difficulty getting  
8 what we need through the various logistical channels  
9 and it's laced with politics that we just have not  
10 been able to work through. So we're very concerned  
11 about that and so is our contractor, but we're doing  
12 the best we can because we have people there. And  
13 the real shining light here is that once Khartoum is  
14 done, we have places like Darfur, Juba that we also  
15 need to attend to, because we have issues with our  
16 support there as well.

17           Skopje in Macedonia, this project is  
18 running late, and it's at 24 percent complete.  
19 We've got a good planned recovery, but I need to let  
20 you know that it is not on schedule. Mumbai in  
21 India in a similar way, we had some water issues  
22 upfront and some host country problems as well, in  
23 terms of allowing the logistical linkage to work.  
24 So this one is challenging as well.

25           So, Rabat, very late sluggish start there.

1 But we are trying to get this one back in order.  
2 These are very difficult areas, ladies and gentlemen  
3 to work in and you really have to be hitting on all  
4 cylinders and have a good day and it's not raining  
5 to make everything work.

6           Beijing, you know we've been on the clock  
7 here almost four years. We're getting close to 70  
8 percent complete, 69 and a bit. You can see in the  
9 lower right-hand corner, things are beginning to  
10 look like a building and a complex. And that is our  
11 ten-acre site.

12           In Baghdad, we have not images, for obvious  
13 reasons, but I just need to tell you a couple  
14 things. That the project is substantially complete.  
15 We have no budget issues with that. The  
16 accreditation process is ongoing and I might point  
17 out that our protocol accreditation process is 60  
18 days. We are working and trying to shorten this  
19 period as much as possible, but there is 65 acres  
20 versus 10. There is 26 buildings versus three or  
21 seven. So it's a mammoth undertaking. I want to  
22 mortify this somewhat. We anticipate opening in  
23 October at a date yet to be certain and that is,  
24 once the accreditation process is finished. It's a  
25 self-contained compound and we are working through

1 all of the issues associated with accreditation and  
2 a punch list and ensuring that everything operates  
3 the way it should operate. And we're working  
4 through that process as we speak.

5           Now, it's a tough road ahead with Karachi  
6 leading the list. This is where we got some really  
7 tough projects. Harare is on hold, that's Zimbabwe,  
8 because we got some governmental issues there that  
9 we cannot work through. We have to have assurances  
10 that our contractors can in fact do business in the  
11 country. That's a pretty fundamental one. And the  
12 ambassador, he and I have met, and he is trying to  
13 work through that. But right now, Harare is on hold  
14 until such time as we can get through those  
15 strictures.

16           Okay, a little bit of clarification for  
17 everyone. We have a program called BMIS. It is a  
18 Building Management Information System. It's our  
19 first cut at trying to get a data manipulating  
20 apparatus so that we can all see the same data, same  
21 time, retrieve it and work with it. The first phase  
22 of that is coming to an end. It was about a three  
23 million dollar undertaking that we took on. We got  
24 some products from that, which tells us that there  
25 is great capability. Phase two will be further

1 expansion down to include the post. And there may  
2 be a phase three and so on until we work through it.  
3 But it's a way of moving our data around, producing  
4 some products that we know have been drawn from a  
5 common database.

6 Travel, I've made 197 visits. I travel  
7 with my chief of staff and myself. Incidentally,  
8 this is Jonathan Blyth. Bob Castro made a speech,  
9 sort of a valedictorian speech last time when he was  
10 here. And he's now joined his lovely wife in  
11 Monterey. So, Jonathan, who had been my  
12 Congressional Affairs Special Assistant, is now with  
13 us. So that's our traveling party, he and I. We've  
14 had some renovations that have been ongoing in an  
15 out building which we do not own. It's a lease  
16 property that is managed by our bureau that manages  
17 domestic properties. We've had renovation ongoing  
18 from the bottom floor all the way up since the mid-  
19 90s, about seven or eight years before I arrived.  
20 We finally finished on the thirteenth floor. But  
21 that's the renovation story. It's run and monitored  
22 and controlled by GSA, not OBO.

23 Chillers, we've had some growing pain with  
24 our water-cooled chillers, to the extent that we've  
25 written a white paper. We've interacted with our

1 vendor, who have been involved with that on it. And  
2 together we have come to conclusions about how we  
3 want to proceed. We're going to hear a lot about  
4 that today, as we walk through.

5 I want to just point out if you are just  
6 building coolers, I mean chillers, building in  
7 Atlanta, Georgia, or Chicago, or Los Angeles, you  
8 can work with the climatical conditions that are  
9 associated with that. But if you are all over the  
10 world at 260 locations, it's just kind of hard to  
11 figure out how the water source is going to be in  
12 Bamako versus Tajikistan, or some other place. So  
13 all of this got into that problem plus the fact  
14 there is a maintenance training situation as well.  
15 You know, these are very sophisticated pieces of  
16 equipment. So we will be making, have made some new  
17 path forwards in a way we're going to look at our  
18 cooling apparatuses going forward and our team will  
19 speak to that.

20 I've talked about the set design having  
21 nothing to do with chillers. Rome, there was a  
22 little issue. Let me tell you something about Rome.  
23 If you've ever been there before, you know it is a  
24 beautiful chancery. Next to that chancery was an  
25 insurance building, the INA insurance apparatus.

1 That building was purchased to add some additional  
2 space to the embassy about two or three years ago,  
3 maybe three years ago, maybe longer than that. It  
4 could be three and a half. I can't recall. And we  
5 are in the process with joining its people with a  
6 series of renovations and rehabs going on.

7           So there was a small fire that occurred in  
8 a fan coil, which was just a subcontractor mistake  
9 and that was just what it was. And no injuries to  
10 people, no destruction of any property and it is  
11 just a matter of making that correction. So, if you  
12 heard anything about a Rome story, that's what it  
13 was about.

14           Contracting and procurement is not,  
15 underscore not, done by OBO, it's independently by  
16 another bureau. Iraq procurement is done not by  
17 OBO, but by another independent bureau. The  
18 Belmopan build to lease, I just mentioned that and  
19 how it got to be a build to lease because there was  
20 no housing and the embassy was relocated, a decision  
21 made many years ago, inward, in order to get them  
22 out of the wet area.

23           And the name change to OBO, which was  
24 announced I guess three or four days into Secretary  
25 Powell's tenure, was a decision that he made. He

1 wanted to drop the word "foreign" and add "overseas"  
2 to that. And that cost the government about  
3 \$400,000 to do the reconfiguration of that.

4           Okay, now this is OBO's recognition that  
5 has occurred. It's 16 key recognitions that the  
6 organization has received. We're very proud of  
7 them. I'm not going to read them. You can look at  
8 them, digest them and whatever, but it's been from  
9 pretty much every corner of the government.

10           The one that I'm very proud of is Veterans'  
11 Affairs, down at the bottom. We have done a lot for  
12 Veterans and tried to help it out in a lot of  
13 different ways, to include those small firms that  
14 have tried to come together and help. Our Society  
15 of American Military Engineers has been there a  
16 couple of times, and ABC, and so on.

17           Okay. Now we are going to come back to  
18 that one slide that I skipped over and I know you  
19 were wondering well what about that. So, when we  
20 reach the 50th point, the staff said to me that we  
21 should just pause and do a little reflecting. The  
22 staff said to me we should pause and do some  
23 reflecting, which we did. And we looked at the BMIS  
24 situation that I just explained and kind of made  
25 some assessments about that and what it meant to us.



1 We looked at FISMA, which is the Federal Information  
2 Security Management Act and sort of pull out well  
3 how are we doing? And you can see we are anywhere  
4 from 97 to 98 percent on that.

5 We were very proud of the support that we  
6 received from our Congress, almost three billion  
7 dollars of support for these 50 compounds over this  
8 six and a half year period. Congress has been  
9 absolutely superb with the support and we thank them  
10 for it.

11 Then, we've earned an effective rating.  
12 That's a rating by OMB for our new construction  
13 program. I think it was 97 percent was the level  
14 and was told that it was one of the highest scores  
15 in our government at the time that we received it.

16 And then of course, if you look at the  
17 stats on the 50 projects that we had done at the  
18 time that we took the snapshot, because you know we  
19 had 52 now, they were constructed on 41 separate  
20 sites, 677 acres and then you can see some of the  
21 sites had been previously owned, others were. But  
22 the long and short of it, it was just a lot that was  
23 out there. We acquired 27 new sites since 1998, et  
24 cetera, et cetera.

25 On this next slide, it tells you that we

1 were also able to do the other half of the OMB  
2 requirement to us and that is, we must dispose of 11  
3 properties. So, when a property is sold, it's not  
4 something that anyone in OBO would like to see sold,  
5 it's because we are mandated by those who over-watch  
6 and control our program to dispose of properties  
7 that we have made a justification that did not work  
8 for us.

9           For example, if we are in an old building.  
10 We had nine separate locations in Ghana, for an  
11 example. When we asked for the funding for Ghana,  
12 we made the case, business and also presence case,  
13 that the nine buildings would not work. So what is  
14 expected from our stewardship is that the nine would  
15 be disposed of. And many people don't understand  
16 that, but that's the way the process works.

17           A representative sampling of the thirteen  
18 projects that we put in place, you see some artwork  
19 statistics there, which is a part of our program.  
20 The total man-hours, which we are very proud of that  
21 we worked, we had 77 accidents, but look at the  
22 number of man-hours. The lost time rate is a 0.14  
23 and we are overseas. We had 186 design reviews and  
24 the total number of contractors who worked with us  
25 during this period of time was 21. These are

1 generals. Now, you know, you add the subs to that  
2 and this would put you at 100. The total concrete  
3 placed in cubic meters, you can see the number  
4 there, and so on and so on.

5 So this is what we garnered by taking time  
6 out. You look like you want to interrupt.

7 MR. TOUSSAINT: I want to interrupt,  
8 General.

9 GENERAL WILLIAMS: Okay.

10 MR. TOUSSAINT: Because you're not going to  
11 say this. The General makes all his slides except  
12 this one, the last two you saw. And the other thing  
13 is the General doesn't like surprises.

14 I saw this at a meeting earlier this week,  
15 sir, and I saw that you had changed the format. You  
16 took out the introductory remarks of this.

17 GENERAL WILLIAMS: Uh-huh.

18 MR. TOUSSAINT: What you see here is what  
19 staff came up with. This was not a tasking to  
20 staff. This was staff looked and said you know,  
21 we've done 50 buildings, 50 facilities in the last  
22 six years. And I think it's time that we surprise  
23 the General with an award. He's always giving out  
24 the awards, but it's time for us to turn the tables.

25 So when you came into the Monday staff

1 meeting, because I was on travel, my colleagues  
2 said, Joe, you can be the Master of Ceremonies. So  
3 I got to do the honors of surprising the General  
4 with an award.

5           So, if you go to OBO now, you will see an  
6 award in our case on the lobby floor that is to  
7 Charles E. Williams in recognition of the leadership  
8 that he gave the organization to achieve these  
9 incredible results. And as you can see, it was not  
10 just an execution issue. It involved everybody  
11 across the board in OBO, numbers of passports,  
12 numbers of personnel actions, the numbers of visas,  
13 and on and on and on.

14           So we were very proud of this achievement  
15 and we really wanted to recognize General Williams.  
16 So we got two awards, you have one, sir. I trust  
17 you have, you're keeping yours?

18           GENERAL WILLIAMS: I have, it, yes.

19           MR. TOUSSAINT: And the one we will put in  
20 our case downstairs to mark this milestone. But I  
21 wanted to correct that.

22           (Applause.)

23           GENERAL WILLIAMS: I appreciate that, Joe.  
24 And I appreciate the initiative that the staff  
25 decided to do. And if you don't take anything else

1 away, it was not a task. You got it though?

2 (Laughter.)

3 GENERAL WILLIAMS: Okay. Are there any  
4 questions on anything that we covered this morning  
5 in the overview? It was a little longer, because I  
6 wanted you to have some behind the scenes operations  
7 and so you get a good feel for what the operation is  
8 about. We have a big challenging responsibility.  
9 We are delighted that our panel and those who have  
10 served for the last five years on these panels, many  
11 of them come back. I see Mary here and some of the  
12 others. We appreciate your loyal support and coming  
13 in to support the program.

14 We believe that this is one of the best  
15 pieces of government that I have been associated  
16 with. It's a very challenging program. We have  
17 very difficult places to work. We have a very good,  
18 supportive staff. All of the managing directors and  
19 I are on the same page. We don't have issues and  
20 arguments, but we have a very challenging job.

21 And we're not perfect. We're human like  
22 everybody else. I'm still waiting to see my perfect  
23 something and my perfect person. So we realize that  
24 some days we have to work harder, but the bottom  
25 line is, for your taxpayers dollars, there's 52 that

1 we didn't have, and there are 15,000 people who were  
2 concerned about their safety and their health six  
3 and a half years ago that are, hopefully, not at  
4 this time.

5           Okay. Let's move now into our topics for  
6 discussion. And we're going to alter just a little  
7 bit. We're going to do the HVAC Systems first. And  
8 then we're going to try to do one more before  
9 lunchtime and that will be the environmental and  
10 sustainability one. We're going to switch just a  
11 little bit.

12           So, why don't we have the champions for the  
13 HVAC system make the necessary presentations?

14           MR. LANGFITT: Good morning, General --

15           GENERAL WILLIAMS: Good morning.

16           MR. LANGFITT: -- ladies, and gentlemen.

17 My name is David Langfitt. I'm a mechanical  
18 engineer with the State Department and I've been  
19 tasked with the presentation of the majority of  
20 this. George is a little bit under the weather, so  
21 I picked up a couple pieces that I wasn't really  
22 planning on earlier.

23           On this first slide, everybody here knows  
24 embassy construction is very challenging. It's  
25 challenging enough to do what we do if we were doing

1 in the United States. To be able to do this  
2 overseas, especially the heating, ventilation, and  
3 air conditioning portion, is extremely challenging.  
4 So our goals are as you see. Make it simple, cost  
5 efficient, smaller, trying to conserve floor space  
6 within our buildings, maximize reliability, maintain  
7 security, and be environmentally responsive.

8 To that end, we've implemented several  
9 ongoing initiatives. This is one that I actually  
10 just witnessed. The two pictures here actually  
11 involve the picture of a methodology that we're  
12 trying to encourage our contractors, our general  
13 contractors to do. It's a skid mounting of  
14 equipment. Skid mounting means that you take major  
15 pieces and components and organizations of  
16 equipment, put it onto some sort of a framework that  
17 can then be shipped as a whole overseas.

18 So actually let's talk about the bottom  
19 picture first. This is a 3-D view of the upper  
20 system. During the initial review, this information  
21 was transmitted to the contractor. They recognized  
22 some challenges. They knew this was going to right  
23 up against a wall so they said, oh gee, the piping  
24 here in it turns out to be the bottom left-hand  
25 corner, you see two pipes sticking straight up, they

1 said we don't need these going into a wall when we  
2 immediately have to make them go up anyway. So the  
3 3-D view made this a very easy item to recognize.  
4 They said, why don't we take this and instead of  
5 elbowing this out, we're just going to go straight  
6 up. It was an easy change to recognize because of  
7 the 3-D model.

8           It was an easy change to implement because  
9 this was all built in Cincinnati. So we actually  
10 went out there, saw this system, we tested it. We  
11 were able to go through all the failure modes for  
12 all the building automation system that was included  
13 as part of this. They recognized some challenges.  
14 A transformer, you know, George and I were walking  
15 and said gee, this is really hot. They identified  
16 it as a problem. They replaced it before they sent  
17 this. So this is an advantage that we're hoping the  
18 general contractors will take advantage of.

19           They can implement this. They do all the  
20 quality testing here. You know what you're getting  
21 overseas. The initial cost is a little more, but  
22 the mechanical engineer, the mechanical contractor's  
23 time on site would be significantly reduced. And if  
24 you're stick building something in Ouagadougou and  
25 you are short a transformer, they would have



1 probably gone, oh, it's probably okay, as opposed to  
2 what they did here. They got us a bigger  
3 transformer. So there are significant advantages do  
4 doing what we've done or what this one contractor  
5 has now done and we are encouraging.

6           The bottom picture, as I said, it is  
7 actually an implementation of the BIM, the Building  
8 Information Management methodology. The mechanical  
9 portion of that, OBO is trying to embrace the  
10 Autodesk products at this point. We're approaching  
11 the use of Revit. It turns out Revit is primarily a  
12 structural and architectural version of the Autodesk  
13 programs. When we went to this particular location,  
14 we asked them what they are using. It is actually  
15 an Autodesk product, but it is called Inventor. And  
16 they were very adamant about making sure you use the  
17 right tool for the right job. You can't, it said  
18 you really do not want to do mechanical systems  
19 using Revit. You do not want to do building systems  
20 using Autodesk Inventor. You need to use the right  
21 tool for the right job.

22           So they were very -- and I asked the  
23 specific question how fast are you at doing this?  
24 The young man that was doing most of their product  
25 line at this point says I am approaching the same

1 speed of doing this in 3-D as I was able to do in  
2 2-D before. So, after we can get our contractors up  
3 to speed, this will be a great thing.

4           The General mentioned a couple times about  
5 the use of water-cooled chillers versus air-cooled  
6 chillers. Just a brief note, we are going to air-  
7 cooled chillers. It is now the standard equipment.  
8 The water-cooled chillers create multiple problems.  
9 You have to buy the water. You have to treat the  
10 water. You're using a huge amount of water, which  
11 varies by the size of the system. One note here, we  
12 have implemented an air-cooled chiller system in  
13 Tokyo, 720 tons. It was using a little over four  
14 million gallons of water a year that we are now not  
15 having to use. We're just discharging all this heat  
16 into the air.

17           So we're saving four million gallons of  
18 water a year in one location. The typical building,  
19 the standard embassy design that we do is about  
20 three hundred tons of cooling, which is still a  
21 million tons per post per year that we're going to  
22 be able to save just by using air-cooled across the  
23 board.

24           The lower picture here on the left-hand  
25 side is a high efficiency compressor. This little

1 guy is a simulator. It shows a magnetic bearing.  
2 What they have done is they have taken this concept,  
3 it is a centrifugal chiller, a centrifugal vein. It  
4 sits in bearings, never touches anything. You don't  
5 have any oil, you don't have to change it. You  
6 don't have any friction. It should never wear out.

7           This entire compressor weighs 220 pounds.  
8 It's a scroll or a different type of compressor.  
9 It's screw equivalent, weighs about 1700 pounds.  
10 This fits through a door. Well, this obviously fits  
11 through the door. The compressor fits through a  
12 door, can run up on an elevator. The whole thing  
13 makes wonderful sense as a retrofit possibility for  
14 us to use.

15           Oh, yes, I forgot to say. We also have  
16 several places we've committed in the most recent  
17 State magazine, which is here by the door, we have a  
18 going green or great green. We have made the  
19 installation of this particular compressor, this one  
20 on the bottom left here. These systems have been  
21 installed in Tokyo. It's a very good story to tell.

22           MR. GLAVIS: I'm going to jump in here just  
23 a little bit, bear with my cold, please. As David  
24 said, smaller, quieter, simpler to install. He  
25 really picked up on some of the things that we've

1 been struggling with in the industry when people  
2 were telling us well gee whiz you've got to go water  
3 cooled because it's more efficient. That's because  
4 some of the people weren't adding up all the parts  
5 of the equation. And they were also ignoring the  
6 cost of water and precious resources that we have  
7 overseas as General Williams very nicely pointed  
8 out. We don't want to be environmentally  
9 unfriendly. We want to conserve where we can and so  
10 we're taking giant steps.

11           And by the way, we're finding out that some  
12 of the people here not too far from our building  
13 right now are analyzing air versus water for large  
14 installations going air, because of the cost of  
15 water. And as you know, we're not going to look at  
16 any decreases in those kind of costs in the near  
17 future and we're building these buildings to last.

18           So, the lifecycle cost clearly points to go  
19 simpler, smaller, an easier to maintain system that  
20 is going to give us a lot of payback.

21           The other part, I think that needs to be  
22 pointed out when we start looking at the flexible  
23 loads, we're finding that special loads that used to  
24 be a very small percentage of a building are now a  
25 significant size of the building loads. And as we

1 see those coming and going, shrinking and swelling,  
2 according to different threats around the world, we  
3 have to adapt. And the monitoring concept is easily  
4 adaptable to the increased loads, rather than  
5 throwing out a whole chiller and starting over. So  
6 those are the kind of specialty issues that we're  
7 looking at in addition to payback is, if you don't  
8 have the surge occurrence of these big machines with  
9 all that other ancillary equipment, you don't have  
10 to oversize your generators. So the payback is even  
11 further. And it's really significant when you look  
12 at some of these generators being double the size,  
13 just in order to carry the surge occurrence on the  
14 startup of our former very large equipment.

15           So a lot of that lends itself to  
16 reevaluating the total picture, and thus far, we  
17 seem to be finding that the monitor approach  
18 conserves space as well. We're finding out that we  
19 can pack an awful lot in a very small space, to the  
20 point where we can get about 300 tons in one  
21 building bay. That was unheard of before. We're  
22 able now to, shall we say, put these things in a  
23 container and move on. Marvin's going to talk a  
24 little bit more about some of that features.

25           And so as we drive down the costs and drive

1 up the quality, guess what? The warranties come up.  
2 So we're looking at some firms out there today that  
3 are giving us warranties such as you get with your  
4 refrigerators and your air conditioning systems at  
5 home. A five-year warranty, just like you have on  
6 your car. You buy something like that, you expect  
7 it to last and those people should stand behind  
8 those kind of warranties, and some of these firms  
9 do.

10           When we start looking at a percentage of  
11 the building, we're building our percentage way down  
12 from what was industry standards down to about five  
13 percent of the total gross building space for all of  
14 our HVAC. This is significant because we are  
15 looking at small, medium, and large embassies and  
16 the very specialty smaller embassies. And we're  
17 still getting these things down to five percent of  
18 gross space. And that's the total HVAC.

19           When you look at the enhanced security for  
20 protecting against chemicals, biological and  
21 radiological threats, those portions of this are  
22 about a half a percent of the building in space,  
23 less than one percent in cost. We're still looking  
24 at some of the, shall we say, significant features  
25 of the cost drivers, we're saying, okay, let's get a

1 little smarter, perhaps some of these things we  
2 could do GFE, rather than paying a lot of markup up  
3 front, so General Williams, we're coming to you with  
4 a decision memo and see if we can't cut those costs  
5 down even further.

6           So it all is a moving target and what is  
7 new today is what we see, but God knows what we're  
8 going to have tomorrow. When you start looking at  
9 this sort of thing, there's no oil. It's kind of  
10 like driving your car and not having to worry about  
11 the oil light going on. That's kind of neat. When  
12 you look at some of the other parts, we had certain  
13 functional space limitations which are removed now  
14 when you don't have this oil, which allows you to  
15 have longer refrigerant lines, et cetera.

16           It's conceivable that we would have such  
17 things like this integrated into the air handlers  
18 itself and even drive the sizes down even better, to  
19 the point where you're actually plugging in  
20 electrical and a very limited amount of piping and  
21 plumbing that now is a spaghetti mess, if we start  
22 looking at these buildings overseas and trying to  
23 pull all those pieces of spaghetti. And David  
24 alluded to that.

25           Finally, the NRC just came out very

1 recently with a report that is the National Research  
2 Council or the National Academies of Science and  
3 Engineering, after a year-long study of protection  
4 against biological and chemical threats. They  
5 indicated when they brief us that they were very  
6 impressed with the passive protection systems that  
7 we have. They actually gave us kudos they couldn't  
8 turn around and say it's the best or anything like  
9 that, but they said they learned an awful lot from  
10 us and they were quite impressed with the systems  
11 that we have in place.

12           Naturally, there is some interest in  
13 sensors. Some of that is ongoing. As we look at  
14 that, we see the ideal combination for critical and  
15 high threat areas, if you can distinguish those, and  
16 so far, our DS folks haven't been able to, where  
17 added sensors might compliment the passive  
18 protection enhanced filtration systems that we have  
19 here.

20           In addition, you're going to see the  
21 medical profession is now starting to look very  
22 seriously at this. And when they start looking at  
23 the dehydration of the bugs, whether it be the  
24 things that give you a common cold like I have or  
25 whether it does you a lot more harm, they can



1 survive with this enhanced filtration system that we  
2 have.

3           So those things are ongoing. And I'm going  
4 to stop because there are a lot of other things that  
5 Marvin and Darryl would like to say. Thank you.

6           GENERAL WILLIAMS: Okay. Thank you,  
7 George.

8           MR. LANGFITT: So to finish up, one, we do  
9 have show and tell filters out front. You can  
10 actually see an example of what George was just  
11 discussing.

12           On the next slide, early this year, the  
13 January, February timeframe, the energy policy act  
14 of 2005 when the President's Executive Order came  
15 into effect, we are doing a variety of things to try  
16 to meet that. The picture is actually a picture of  
17 a dedicated heat recovery chiller. What this allows  
18 you to do is any building that requires cooling and  
19 heating at the same time, on your home air  
20 conditioning unit, you that when that thing, when  
21 your unit outside is running, you're taking heat and  
22 throwing it away. Well, a dedicated heat recovery  
23 chiller would actually take that heat and use it to  
24 heat either domestic water use for your kitchen or  
25 will use the variable air volume reheat for your air

1 conditioning system. So it's like getting half of  
2 your requirement for free. It's designed so that  
3 it's working all year long in the wintertime, when  
4 we're making more heat than we need, you're taking  
5 the air conditioning and using it for those pieces  
6 of the buildings that would otherwise we would have  
7 to run a chiller for.

8 Targeting highest efficiency for maximum  
9 operating hours, again as George mentioned, we have  
10 two gentlemen over here who are going to discuss  
11 several pieces of this, so we'll kind of go quickly.

12 Minimizing use of proprietary systems, we  
13 have an ongoing effort to do that. Again, because  
14 we are not local to D.C., we're not local to  
15 Cincinnati, some of this stuff is really hard to get  
16 where we work and live. So we're trying to make  
17 sure a commercial off-the-shelf is available. The  
18 same with our building automation systems.

19 We are working with facilities to improve  
20 the training that goes on for these. Actually,  
21 trying to get some of our contractor or our vendors  
22 to supply us with visual training so that it's an  
23 ongoing available thing. If they're getting ready  
24 to go work on a chiller, they pop the CD into the  
25 thing and go oh, that's how I do that, instead of

1 trying to read it out of a book. CDs are way easier  
2 than they used to be. It's a good way to go.

3           Finally, the secure internet  
4 communications. I don't know that we'll ever  
5 control our equipment from here, but we should  
6 certainly be able to monitor it. We're doing so in  
7 some of our posts. We probably should have that  
8 capability throughout. So that's one of the things  
9 that we think we're going to approach.

10           GENERAL WILLIAMS: Okay, before we go into  
11 the other side of this, are there any quick  
12 questions for George or David, before we get into  
13 the other presentations? Yes, Suman?

14           MS. SORG: George, was that five percent  
15 you talked about include the pent house?

16           MR. GLAVIS: It includes the fan coil --

17           MS. SORG: Penthouse space, the whole  
18 square footage?

19           MR. GLAVIS: Yes, there is a lot of  
20 contentious discussion on which process. The  
21 penthouse essentially is gone. We're talking about  
22 actual building space. And, quite frankly, you'll  
23 see different reports where they commingle a lot of  
24 other things into "mechanical space" and when you  
25 drill down, there is a lot of electrical areas that

1 are considered mechanical. They used to co-locate  
2 with the older HVAC systems. There has been a trend  
3 to have everybody have their own little turf. So  
4 you have a lot of mechanical electrical rooms. You  
5 have separate wires closets for telecommunications.  
6 You have separate ones for data, and then you have  
7 separate ones for classified. And when you add them  
8 all up, they are well over the five percent. I'm  
9 talking about heating, ventilation, and air  
10 conditioning five percent. That's based on the BOMA  
11 standards. Okay?

12           GENERAL WILLIAMS: Okay, as we roll into  
13 our panel side of it, I heard a central theme out of  
14 our presentation, which talked about reduced cost,  
15 reduced space, simpler to operate, and efficient.  
16 So that's what we're going into the other side with.

17           Darryl?

18           MR. HORNE: Good morning.

19           GENERAL WILLIAMS: Good morning.

20           MR. HORNE: Marvin and I had the task of  
21 the other side and thought this morning we'd go  
22 through, we'll start with minimizing HVAC issues  
23 after move-in. And that begins with, I think, a  
24 very basic business tenant that is really  
25 understanding the integrity of the equipment

1 manufacturer's upfront costs, its maintenance costs  
2 and its warranty cost right up front.

3 I'm not going to read these slides, but  
4 what we're seeing in the industry is really talked  
5 about a bit here. Custom design of HVAC systems for  
6 the type of building, the size of the building, and  
7 the geographic location, which is the issue of the  
8 moment here for OBO.

9 We're seeing quite a bit of building  
10 automation systems that are able to provide the  
11 increased occupancy comfort with the flexibility of  
12 controlling heating and ventilation and we talked a  
13 little bit about that already.

14 We're seeing a lot of innovation of  
15 innovative features around protecting the equipment  
16 once it has been installed. And we can talk about  
17 some of the high-pressure switches to low pressure  
18 switches. Crank case here is to protect the  
19 compressor after the refrigerant migration.

20 So those are some of the things we're  
21 looking at here from minimizing the HVAC issues  
22 after move-in, protecting the equipment.

23 The next one. Maintaining security. We're  
24 seeing that a lot of new technology is under  
25 development. I had mentioned here that the Pentagon

1 has put in a Novatron bioprotective air sterilizing  
2 system. That's the system they went to after 9/11.  
3 There is quite a bit of new technology being looked  
4 at right now. But the big thing here is what we're  
5 looking at here from a building automation system.  
6 That's the big nugget here. We're getting quite a  
7 bit efficient and effective equipment. Let's look  
8 at how we talk to that equipment. How do we get  
9 information out of that that equipment? How do we  
10 help that information help the people in the  
11 facilities?

12           Next one, please. Being environmentally  
13 responsible. We're seeing quite a bit of effect  
14 coming from the Energy Policy Act of 2005. This  
15 next one, which is really not relevant in blast-  
16 proof buildings or dedicated outside air systems,  
17 but what I would like to highlight here is some of  
18 the environmentally friendly refrigerants.

19           There is the R-410A refrigerant. And the  
20 EPA has pretty much recognized it as a chlorine-free  
21 refrigerant and we're seeing that the cost from an  
22 environmental standpoint is pretty significant. So  
23 we're seeing quite a bit of things here that we can  
24 look at from an environmental standpoint.

25           And lastly, we wanted to highlight how we

1 monitor critical infrastructure in the status of  
2 remote trouble shooting. George just talked about  
3 that quite a bit. But what we're seeing in industry  
4 is that there is quite a bit of building automation  
5 that we should be looking at. And it's getting more  
6 improved as time goes by. The issues around  
7 security are being overcome, because a lot of this  
8 technology is able to really fix itself with the  
9 type of typology that is being used today, a lot of  
10 web applications online. And I just have to mention  
11 that we're seeing a lot of innovation out of folks  
12 at Siemens Building Technologies and a lot of what  
13 you're seeing here is what they are doing in  
14 industry and some of the industry best practices  
15 that are coming out of their software packages.

16 Marvin, I'm going to turn the rest to you.

17 GENERAL WILLIAMS: Okay, thanks, Darryl.

18 MR. HORNE: Sure.

19 GENERAL WILLIAMS: We want to come back to  
20 some of your points. Marvin?

21 DR. OEY: Thank you, General. It was  
22 interesting when I got the topic. I, myself, have  
23 limited knowledge on HVAC and so I kind of started  
24 doing some interviews as some homework, talking to  
25 some mechanical contractors and various people. And

1 I got a lot of things I didn't quite understand.  
2 And so George graciously invited me over to the  
3 office to talk a little bit about what they were  
4 looking for. And what I found, as I started  
5 discussing the topic with them was a general theme  
6 that I saw that the mechanical group was going  
7 towards and that was modularization and  
8 prefabrication.

9           And this is a trend that was going on and  
10 my background is primarily in heavy industrial, a  
11 lot of chemical plant, and there is a lot of piping  
12 and a lot of mechanical equipment that goes on in  
13 the design and building of these plants. And so I  
14 wanted to talk a little bit about some of the  
15 advantages of where the engineering program is, or  
16 the mechanical program is going in terms of what the  
17 heavy industrial calls prefabrication, preassembly,  
18 modularization and then offsite type of  
19 manufacturing.

20           Next slide. Obviously, a lot of this stuff  
21 has been mentioned, you go this route, you get some  
22 significant reduction in project durations. You  
23 improve productivity because things are being built  
24 here and then shipped overseas so you've eliminated  
25 some concerns and foreign workers working on a lot



1 of this mechanical equipment is what I see as very  
2 highly secure. You've got air-handling systems that  
3 you don't want to be open to security issues. And  
4 so, you know, having this built here and then  
5 putting it on a skid, as they had mentioned, and  
6 being shipped off, is a huge advantage.

7           Next slide. Just some simple statistics on  
8 what is going on in industry. For the past several  
9 years, the PPMOF usage or prepackaging  
10 modularization has increased 90 percent in the heavy  
11 industrial area. This concept cannot just be used  
12 in just mechanical. It's being used in almost every  
13 discipline. You've got structural systems now that  
14 are being prefabricated and shipped in pieces.  
15 You've also got the mechanical systems and even, you  
16 know, you can see some of these homes that are being  
17 built. You know, half of it is being built, shipped  
18 to a site, and then put together. You know, a lot  
19 of that was done in the Hurricane Katrina  
20 redevelopment efforts.

21           And just some major areas, you know, you've  
22 got the equipment, the piping, and structural  
23 assemblies that I had mentioned.

24           In addition to the advantages, there are of  
25 course, impediments to prefabrication and some of

1 this modularization. You've got definitely  
2 increased engineering requirements, transportation  
3 considerations. Going in and out of some of these  
4 countries can be a significant issue that I've seen  
5 with Dow Chemical, you know, working with the  
6 government and even some of contractors on these  
7 issues. You've got a decreased flexibility of  
8 scope. When you have something prepackaged, there  
9 is not a lot of room when you start getting into  
10 project execution to change some of the  
11 technologies. And obviously site constraints.

12           And then what I'm going to talk a little  
13 bit about later on is the coordination,  
14 communication, and organizational requirements that  
15 I've seen after talking to George and Dave that OBO  
16 is already implementing some of these that industry  
17 has already been doing for several years.

18           Just some of the issues that come with  
19 prepackaging can be broken into two basically main  
20 topics. And one is vendor data issues and the other  
21 I will get into after this slide. But you've got  
22 communication problems with vendor data and what we  
23 found in several studies with some of these chemical  
24 plants was if you develop a standard preprinted form  
25 for these vendors to eliminate, some of the problems

1 were vendor data wasn't getting their information or  
2 enough information to the engineering teams. And by  
3 this, I mean, the engineering teams assumed that  
4 vendors knew what to give to the engineers. And  
5 that wasn't the case.

6           So what you resulted in was a lot of  
7 uncertainties in the form of missing data, late  
8 data, things of that sort. And one of the solutions  
9 that industry found was developing a standard  
10 preprinted form that was used in a meeting to sort  
11 of kick off the vendor/engineer team relationships.

12           Coordination problems was also a common  
13 issue that was found and what they suggested was, of  
14 course, vendor data coordination meetings, which I'm  
15 sure the mechanical program was already doing. But  
16 it's just kind of a reiteration of what they found.  
17 A lot of people were already doing this, but it's a  
18 reiteration on the importance of these coordination  
19 meetings, because you've got so many disciplines  
20 that review this information and what they were  
21 finding was the civil department would have some  
22 comments, mechanical would have comments, and the  
23 vendor would receive those and wasn't sure which  
24 comments were common to everything.

25           And then I'm not sure if this applies to

1 OBO, as I just learned today with your discussion  
2 about the contractors, I'm not sure who handles all  
3 that, but there are the vendor selection issues that  
4 the chemical industry faces. And what they found  
5 was this process or the vendor selection process  
6 held up a lot of the design process. So, a lot of  
7 drawings were being held up because the vendors  
8 weren't being, you know, the process was long and  
9 tedious.

10           Next slide. The other issue or the other  
11 main topic or area was the prepackaged issues and it  
12 kind of overlaps. And there was some of the main  
13 issue was insufficient packaged unit vendor  
14 engineering staff. What we found in a trend is many  
15 of these firms are downsizing or in the past. I'm  
16 not sure if it's -- this was a study that was done  
17 several years now, but it may have changed now or  
18 turned around, but a lot of people are going lean.  
19 They're trying to streamline their operations and so  
20 you get a lot of firms when they sell prepackaged  
21 products, it's prepackaged and they don't have the  
22 staff to maybe customize a product that they have  
23 and so that becomes a big issue on the owner's side  
24 to coordinate those.

25           As technology improves, you've more complex

1 packaged units, as we've seen in some of these  
2 products that are coming out. So there's more  
3 understanding of that. And then there is, of  
4 course, the inexperienced packaged unit sub-vendors.  
5 There is a lot of how do you select those, who is  
6 the most experienced and who have issues with,  
7 especially with overseas, you know, shipping those  
8 out. And then there's the lack of input from O and  
9 M personnel that was prevalent within the chemical  
10 industry and then of course, unrealistic promises by  
11 packaged unit sales.

12           Next slide. Some of the recommendations  
13 that came out of that were, you know, the  
14 prequalification program. I'm sure there's  
15 something like that within OBO. Customized  
16 specification meeting. And this is where you take a  
17 vendor's product, take a detailed look at it to see  
18 what are some of the customization needs. As David  
19 mentioned, there is, you know, a piece of equipment  
20 to be up against a wall. What are some changes that  
21 need to be made so those processes are in place?  
22 And then of course, the packaged units coordinator  
23 and that's similar to the vendor data coordinator,  
24 where there is someone within OBO that coordinates  
25 between all the disciplines and the different vendor

1 packages and equipment.

2 And with that I --

3 GENERAL WILLIAMS: Okay, thank you, Darryl  
4 and Marvin.

5 What we have just witnessed through the  
6 presentations and hopefully the interaction and the  
7 conversation will be stimulated by this, as I said,  
8 the government team is looking at a new path. We've  
9 made some fundamental decisions in respect to our  
10 HVAC approach and I've talked about those. And now  
11 industry is coming back, giving us some wonderful  
12 nuggets for thinking through this. The O and M side  
13 of this, as Darryl pointed out, must be considered  
14 and how all of that lashes up with modern technology  
15 moving forward, that can help us with managing the  
16 system.

17 And then of course, Marvin's presentation  
18 spoke to once again, still another way of looking at  
19 heavy equipment, industrial type equipment, and  
20 particularly as it relates to us, the HVAC side of  
21 it through a prefabrication and marginalization way  
22 to go. So, through all of this, we have seen  
23 different approaches. And I'm just interested now  
24 in any dialogue from any panel members about what  
25 has been presented.

1 MS. SORG: I had a question of Marvin. You  
2 know, the prepackaged systems that you are talking  
3 about, and we're talking now about a carbon  
4 footprint in building design. And I was curious if  
5 there has been any study, you know, doing this kind  
6 of packaging because transportation is a big issue  
7 and embodied energy is a big issue in carbon  
8 footprint, whether or not there has been any  
9 analysis of that kind of thing if you do this kind  
10 of prepackaging and shipping.

11 DR. OEY: I'm not too familiar with any  
12 studies, but I have seen in the chemical industries  
13 that the prepackaging but I'm not sure of the carbon  
14 footprints, sort of the error and omissions type of  
15 things.

16 A lot of the newer technologies that are  
17 coming out are being sold or marketed as prepackaged  
18 systems on skids. Now, in industry, in the chemical  
19 industries, the three different things that I talked  
20 about, the PP, the prefabrication, it actually goes  
21 in different levels, where you've got different  
22 sizes. They are actually shipping parts of plants  
23 now that are sizes of buildings that you connect.  
24 It's essentially rolled out to a site. And that  
25 tends to be a lot of complexities in it. But some

1 of the studies have shown that in the beginning, the  
2 learning curve or the cost for that was significant.  
3 So a lot of times they would just revert back to  
4 traditional systems. However, they are still  
5 looking at the cost benefits to using these types of  
6 systems.

7           And a lot of times what is seen is the  
8 redundancy. Because of the regulational  
9 legislation, if a system was to go down, a plant  
10 typically suffers some pretty serious fines and loss  
11 of credit. And so having these redundant systems in  
12 place has helped out, or has been an advantage for  
13 some of these plants. I'm not sure if that answered  
14 your question.

15           MS. SORG: Well you know, we'll probably  
16 later discuss the sustainable you know, and lamina  
17 design, but I was also curious if, George, the  
18 prepackaged units that you talked about, the skid --

19           MR. GLAVIS: Right.

20           MS. SORG: -- mounted.

21           MR. GLAVIS: Yes.

22           MS. SORG: This is just because I am an  
23 architect.

24           MR. GLAVIS: Oh, let's do it.

25           MS. SORG: And pardon my ignorance.



1 MR. GLAVIS: No, let's tie it together.

2 MS. SORG: But would they work a green  
3 power like wind power or other fuel sources that use  
4 thermal or anything like that? Does it affect that?

5 MR. GLAVIS: Interesting that you asked  
6 that. If we had the ideal composition of the  
7 ground, shall we say, coordination of contracts, and  
8 we wanted to go ground source heat pump, that would  
9 be an ideal opportunity to extract free energy, if  
10 you will. We've looked at the photovoltaics. They  
11 are still evolving technology, they're not advanced  
12 yet. The types of wind turbines that are being,  
13 shall we say, pursued with the large utility  
14 companies, are not conducive to our types of sites.  
15 We are looking at some other types of, shall we say,  
16 early developments in wind.

17 I see those coming together. I don't see  
18 them today and I don't see them right away tomorrow.  
19 But I think not too long down the road, we're going  
20 to look at photovoltaics with increased  
21 efficiencies, using our existing, shall we say,  
22 architectural facades. We also can integrate the  
23 wind, if we looked at some of these more novel  
24 approaches. If you would think of a horizontal  
25 revolving equipment right over your solar cells and

1 it's not going to destroy the photovoltaics as well,  
2 maybe the two contractors, maybe one contractor can  
3 put them both in. And when you start looking at the  
4 cost of our facilities overseas, a lot of it is  
5 driven by the specialty contractors. So, if one  
6 contractor can do both, that cuts the cost  
7 considerably.

8           With regard to the other question you  
9 asked, I believe we are already seeing one firm  
10 doing NECs with this concept. They are looking at  
11 shipping these things over in containers. Nothing  
12 free floating on the ocean anymore where you're  
13 going to drop something down. It doesn't work  
14 anymore. We're looking at really a conventional  
15 restrictive size based on container sizes. Because  
16 if we can do it in a container, then I don't worry  
17 about it getting dropped at customs or someplace  
18 like that.

19           Does that help?

20           MS. SORG: Yes, thank you.

21           MR. LANGFITT: If I could, one additional  
22 piece to that. From a carbon footprint point of  
23 view for our equipment, almost all the mechanical  
24 equipment comes from the United States anyway. So  
25 we're just trading the transportation from a

1 packaged unit to sticks, you know, pieces of pipe.  
2 So I don't think the quantity is significantly  
3 increased by doing it here and shipping it there.

4           One item on this prepackaging concept that  
5 I forget to mention, I made myself a note and then  
6 missed it, one of the things that I found to be  
7 extremely interesting is the prepackaging  
8 subcontractor in the case of this particular unit  
9 has all the accountability for all the piece parts.  
10 So we have one person to go back to from a warranty  
11 point of view. And the general contractor made that  
12 point. He says, oh, yes, he bought it. So we know  
13 who bought it, we know who installed it. So that  
14 made a strong impression on me and I missed it.

15           GENERAL WILLIAMS: All right. Do other  
16 panel members have any inquires of those who made  
17 the presentation along this subject?

18           MR. HORNE: Just to add a real quick note  
19 also on the prepackaging, from the sustainability  
20 standpoint, there has been, I forgot about this, one  
21 study. The ASCE has a committee on sustainability  
22 and prepackaging and been found to reduce or  
23 minimize waste during construction. So, that's been  
24 a big huge kind of push on the civil side in  
25 minimizing waste on the site, recycling. And by

1 having these prepackaged units, you've got more  
2 control in quality in manufacturing some of these  
3 components.

4           GENERAL WILLIAMS: What about the air-  
5 cooled versus water-cooled? I'm just interested in  
6 anybody's view on it, panel.

7           MR. HORNE: I don't have much knowledge of,  
8 I hope I'm not talking too much, but --

9           GENERAL WILLIAMS: No, you've got the show  
10 today. Your colleagues are letting you have it.

11           MR. HORNE: On the HVACs from a civil  
12 standpoint, I didn't quite understand the  
13 differences between the air, I mean, there is the  
14 air and the water and they both have their  
15 advantages and disadvantages. From a civil  
16 standpoint of the water cooled with the issues that  
17 are faced in these overseas projects is, what do you  
18 do with the water? And from a civil standpoint,  
19 you've got to treat it at one point, and that  
20 requires a significant amount of space or area on  
21 any site.

22           So you've already got large, you know, just  
23 acquiring this real estate in another country is an  
24 issue and it just seems to make sense to me that an  
25 air-cooled type of system that reduces that water

1 usage or water handling maintenance type of problem  
2 is an advantage to air-cooled systems.

3 GENERAL WILLIAMS: Okay. Greg?

4 MR. KNOOP: Well, a key interest is a  
5 building is a living organism and it's going to go  
6 on for many years. So are we seeing that this has a  
7 lifecycle benefit from its maintainability? Is it  
8 easy to educate the persons who have to operate and  
9 maintain it? That's where we'd want to see the  
10 benefit because once we get past the first purchase,  
11 it's the post who owns the responsibility to keep  
12 that thing running.

13 MR. GLAVIS: Absolutely. Excellent  
14 question, Greg. I came out of the maintenance side  
15 here and moved over to design. So I relate directly  
16 to what you are worried about. If we can simplify  
17 it, keep it smaller, eliminate all the extra  
18 ancillary functions such as water treatment, that  
19 sort of thing, you're not scaling up your system.  
20 You're not trying to run things incorrectly.

21 The modular approach has one distinct  
22 advantage. If I can look at one, shall we say small  
23 component, and I can master that, then stacking them  
24 in line is easy and anybody can look at that and  
25 understand from one modular and the others just

1 follow in line.

2           The only, shall we say, challenge, is the  
3 interconnection. And that gets into the  
4 electronics. We found rather than getting an awful  
5 lot of, shall we say, specialty wiring, simplify  
6 circuit packs so that you essentially have the same  
7 types of circuit packs all the way down and then you  
8 have a couple of spare circuit packs. And it  
9 doesn't take long before you can figure out where  
10 your problem is, whereas, if you have a unique  
11 massive piece of machinery, you don't know where to  
12 go when the darn thing doesn't start. And it could  
13 be a pump in another room.

14           And of course, those are the  
15 interconnection conflicts that the O and M folks are  
16 constantly driven with, especially overseas, where  
17 some of the people maintaining this equipment speak  
18 a different language. So anything we can do to  
19 simplify it, you've got my vote.

20           GENERAL WILLIAMS: Yes, go ahead, Greg.

21           MR. KNOOP: And how much reaction are you  
22 getting from the market? You've just adopted a  
23 system. Are you getting reaction from the market to  
24 treat you as a preferred customer because of the  
25 large purchasing program that you will be

1 undertaking for these systems, better value at the  
2 bid?

3 MR. GLAVIS: Well, I think it's important  
4 to look at our desire to stay competitive. There  
5 has always been a question of do you want to have  
6 three or four or five names on an RFP or do you want  
7 to leave the sheet blank, let the best man win and  
8 write a performance to spec? That's the way we're  
9 leading is a performance spec. Tighter and higher  
10 efficiencies because, quite frankly, if I pick,  
11 let's say General Motors, I can get a Chevy or I can  
12 get a Cadillac. Okay? And unfortunately, we're  
13 finding that problem exists today.

14 So, keeping the sheet clean and not showing  
15 any favoritism or any discrimination, but tightening  
16 up the performance spec, that's where we're headed.

17 GENERAL WILLIAMS: And that is very  
18 significant from the standpoint of OBO's position.  
19 Performance spec tweaking and enhancement and not  
20 paying any attention to the rest of it because  
21 that's left for the procuring world to connect to  
22 this performance spec.

23 Yes, Nancy.

24 MS. GOSHOW: You had asked about which  
25 might be better, air-cooled or water-cooled.

1 MR. GLAVIS: Yes.

2 MS. GOSHOW: This is a question I have for  
3 you. Does water-cooled require more energy than  
4 air-cooled or are they both, do they require both  
5 about the same amount of energy?

6 MR. GLAVIS: We went to the different  
7 manufacturers and we were looking at this for the  
8 last five years very intently. As long as you put  
9 the total equation together and you start looking at  
10 the piping and you start looking at the cost of  
11 running these things for X number of years, the  
12 ancillary equipment for water cooled is more  
13 expensive. It's also more expensive if you add up  
14 all the first costs.

15 So, then I started looking at sizes.  
16 Industry finally acknowledged that anything under  
17 let's say 400 tons, 500 tons, depending on which  
18 manufacturer you are talking to, air-cooled is best.  
19 Air-cooled is more efficient. That doesn't include  
20 the cost of water.

21 MS. GOSHOW: Right.

22 MR. GLAVIS: And of course, as soon as I  
23 put the cost of water in, I'm finding out that some  
24 of these major manufacturers right around here are  
25 going air-cooled because the cost of water is



1 offsetting the advantages of a water cooled.

2 MS. GOSHOW: And just two other things.  
3 One is water is a valuable resource in the places  
4 where OBO builds buildings.

5 MR. GLAVIS: Right.

6 MS. GOSHOW: And so in terms of  
7 sustainable, resource conservation is important.  
8 So, air-cooled would be better there. And also, are  
9 there not fewer connections and one less trade  
10 because now you don't have the plumbing piece?

11 MR. GLAVIS: Oh, yes, absolutely.

12 MS. GOSHOW: So it's less cost in terms of  
13 installation as well.

14 MR. GLAVIS: In my opinion, yes,  
15 absolutely.

16 GENERAL WILLIAMS: Two very significant  
17 points that Nancy just made from the environmental  
18 point of view, because we are in areas where water  
19 is precious. In fact, there is one location, we're  
20 having difficulty in Freetown, for example, getting  
21 the necessary water. So, it's precious, it's  
22 expensive and so that's very important. And I was  
23 wondering if anyone wanted to come in on the  
24 maintainability side of this by having ancillary  
25 equipment, more plumbing, extra trades, and this

1 type of thing. Do you see any savings there as  
2 well? Any advantage of the air-cooled approach?

3 MS. SORG: General Williams, we do a lot of  
4 condominium buildings, which is the highest rate of  
5 litigation in the building industry and a lot of  
6 those are going to air-cooled because of that issue.  
7 Fewer parts, fewer things go wrong.

8 GENERAL WILLIAMS: Okay. Yes, Greg?

9 MR. KNOOP: We also have resource  
10 responsibility and what is our message out to the  
11 host countries? Are we energy hogs, are we resource  
12 hogs, or are we the representatives of something, a  
13 higher ideal? And I think it's important that the  
14 post get the message of what kind of green  
15 buildings, are energy efficient buildings out there  
16 to the host country and to the people who visit our  
17 post.

18 So, I think there is a powerful impact, a  
19 powerful message, not just the economics, but the  
20 diplomatic support that our buildings provide to the  
21 diplomats.

22 GENERAL WILLIAMS: Yes, that's very good.  
23 Another very interesting point because we do have to  
24 be concerned about the host country, regardless of  
25 how underdeveloped it may be. We still are guests

1 and we have to pay attention to that. And I think  
2 your two comments about which, we don't want to be  
3 viewed as a hog, I think is important.

4 So, George, or maybe anyone have a rough  
5 idea in terms of percentage of sort of total cost  
6 reduction this new approach might make, if we do it  
7 right?

8 MR. GLAVIS: Are we looking at first costs  
9 or are we looking a lifecycle costs?

10 GENERAL WILLIAMS: Well, try to give me  
11 both.

12 MR. GLAVIS: Okay. The first cost is wash  
13 until you start running the length of the line going  
14 all the way out to the utility building and then the  
15 cost of the utility building equipment and pouring  
16 concrete. Those get lost in the equation,  
17 typically.

18 As far as the operating costs, as soon as  
19 you start lightening off those various very  
20 expensive pumps, try and pump all that water all the  
21 way across a ten acre compound and trying to keep it  
22 cool, by the time you have got your water to the  
23 source, or to the load, you've lost an awful lot of  
24 your efficiencies.

25 And the maintenance issues, if I can jump

1 in on the maintenance side, it's a killer. You have  
2 heard about the sickness associated with plumes of  
3 water. So if I get that water equipment close to  
4 the embassy, I'm worried about bringing that in to  
5 my intakes and doing my people in. So, the logical  
6 approach from, shall we say a designer, is put it  
7 out in the south forty somewhere on the ten acre  
8 compound, and I've got all those problems in  
9 addition to the pumping losses. I've got the  
10 maintenance of the cooling towers. I have to shut  
11 them down as soon as I found out that there is some  
12 biocide problems. I've got issues on cleaning the  
13 tubes. It goes down and down and down.

14           The issue that I think comes to mind  
15 immediately on the quality of the water, because  
16 you're pulling the physical, and I'm going back to  
17 my Navy days, too on the steam boilers, et cetera.  
18 Somewhere along the line, you've got to get rid of  
19 all that crud that sits in your system. So you've  
20 got a constantly blow down effect and you're  
21 constantly throwing that water down the drain, as  
22 well as evaporating in the sky. So anybody who has  
23 driven around some of these buildings and seen white  
24 plumes going in the sky, that's your water going in  
25 the air.

1           And then you turn around and you add all  
2 that water that's going down a drain because of the  
3 chemical treatments and you just mentioned about the  
4 chemical treatment areas in the wastewater  
5 treatment, it's compounded. I can't give you a  
6 number. I would be afraid to, but I would say  
7 definitely significantly higher operating costs, all  
8 the way around.

9           GENERAL WILLIAMS: And George, I was not  
10 expecting you to be precise with a number. You gave  
11 me the explanation that I wanted and that is the  
12 fact that we feel fairly confident that this  
13 approach, at the end of the day, combining both  
14 initial and long-term, that the ultimate burden on  
15 the taxpayers will be reduced.

16           MR. GLAVIS: Yes, sir.

17           GENERAL WILLIAMS: Okay. Are there any  
18 panel objection to this new approach?

19           MR. WOODS: Not an objection, really  
20 another question. I'm the structural engineer who  
21 has a difficult time operating the new thermostat  
22 with all the gee-whiz stuff in my home. And David,  
23 you mentioned the increased training.

24           A lot of multi-tenant buildings in this  
25 country, we have a difficult time with them

1 maintaining the comfort level for all of the  
2 inhabitants. And apart of it is because the people  
3 who operate the systems and the control systems  
4 don't know how to do it. And I'm real interested in  
5 what you've done to improve that capability,  
6 particularly in developing countries, where you are  
7 trying to use local personnel.

8 MR. LANGFITT: It's extremely challenging.  
9 We're in many cases putting in equipment that these  
10 people have never even seen. You know, the biggest  
11 equipment they've seen is something the size of what  
12 you would put on your house. So for us to say here  
13 is a new chiller that could cool 300 houses, they're  
14 going oh my goodness what is this?

15 The building automation systems, we are  
16 trying to simplify the interface so that the  
17 facility staff that has been challenged to maintain  
18 it can operate it properly. The thermostats have a  
19 limited range of adjustability in most cases, so  
20 that you in your office can adjust it up or down two  
21 or three degrees, but they won't let you run it all  
22 the way down, which might starve the office next  
23 door.

24 So we're trying to implement pieces that  
25 work together, so that it's less liable to go belly

1 up on us. It is a challenging solution, because a  
2 lot of these people have not seen anything like what  
3 we're putting in. You know, the embassy staff is  
4 probably as good as it gets in the country. So,  
5 we're trying to implement additional training.

6           The chillers themselves, the controls on  
7 the chillers are now so smart, they're pretty much  
8 self-maintaining. There's not a whole lot of effort  
9 involved in keeping the chiller running at its  
10 designed requirements. The hard part is getting the  
11 people to understand that just because I've added  
12 the up button, doesn't mean that it's cooler now.  
13 It will be cooler you know, an hour from now. You  
14 know, you go home into your house and it's 4:00 in  
15 the afternoon in the middle of August and you're  
16 going, it's really hot. You push that button, it  
17 stays hot for three or four hours while the building  
18 catches up. You know, we have big buildings.

19           So it's an ongoing challenge.

20           MR. GLAVIS: One more in that regard. We  
21 are adjusting our building, shall we say, operation  
22 based on occupancy, where we used to just say gee  
23 whiz, run it all the time and then shut it off  
24 during the weekends. That didn't work. That just  
25 created lots of mold problems.

1           So with our pressurization, we have an  
2 opportunity to, as long as we commission it right up  
3 front, we get all the necessary information into the  
4 building management system and hopefully, as we are  
5 moving this challenge, if you will, to a simpler  
6 design, we're getting the essential feedback  
7 information to our post, one, and also hopefully  
8 soon, to our people back here. And the important  
9 part is that way, I constantly compare actual versus  
10 design conditions. I can see trend analysis. If  
11 something is not right on the second floor, I know  
12 because of the information coming back, the usage  
13 data went up. And if the usage went up, it's time  
14 to get in there and look at it before something went  
15 wrong. So that's where we're headed.

16           GENERAL WILLIAMS: Okay, go ahead, Greg.

17           MR. KNOOP: That's a key element, keeping a  
18 record. We've got to know and be honest with  
19 ourselves whether we're actually meeting those  
20 success measures and keep trying to innovate, to  
21 challenge yourselves to meet those success measures.

22           MR. GLAVIS: I thank you for bringing it  
23 up. In the past, thanks to Joe Williams, we looked  
24 at some of these buildings. We didn't know exactly  
25 how to predict the consumption. He said standardize



1 these designs. We now have a chance to predict some  
2 of the conceptions. Now the answer is coming back  
3 on each one of these facilities, how are we actually  
4 operating? Are they operated, shall we say,  
5 disconnects from what we figured it should be during  
6 the predictive analysis during the design? And we  
7 are actually looking at that on a case-by-case,  
8 year-by-year basis, working very heavily with the  
9 facilities folks on that.

10           GENERAL WILLIAMS: George, David, Marvin,  
11 and Darryl, thank you. I know that this is a very  
12 interested topic. We could spend a day on it. But  
13 I know you've done some heavy research for us and we  
14 appreciate all the information that has been  
15 provided.

16           We are turning, making the right turn and  
17 we're going in that direction, that is the air-  
18 cooled route. We're thankful for all of the new  
19 emerging concepts and information that you have  
20 brought forth and we'll be looking at those and  
21 further educating ourselves about the utility of  
22 them, as we move forward. So, thank you very much.

23           And we'll switch now and move to value  
24 engineering. I'm sorry, to the new in sustainable  
25 and environmental design, which shows champions of

1 Donna and Nancy, Suman, and Craig Unger. And Bill  
2 Miner.

3 MR. MINER: I slipped in here, General.

4 GENERAL WILLIAMS: Okay.

5 MR. MINER: Everyone in DE gets sick at the  
6 same time. It's a point about togetherness.

7 So I'm going to hand it off to our experts  
8 very quickly, but I did want to just introduce the  
9 subject. We had a wonderful talk about the  
10 mechanical systems and the mechanical strategies in  
11 our building. I think it's important to note that  
12 the mechanical, the electrical, and the security  
13 components for our buildings are what we consider  
14 our most critical systems. When those systems go  
15 down, we're out of business. There are other things  
16 that we have some ability to resolve over time, but  
17 those are absolutely essential to the continued  
18 operation of our critical mission overseas.

19 The mechanical subject that we just went  
20 through is a part of a larger opportunity and  
21 environmental and sustainability program that we  
22 have in place. We had a question similar to this a  
23 few years ago, what are we doing in the area of  
24 sustainability and energy conservation? And I  
25 reported to the panel, at that time, that we had

1 worked very closely with U.S. Green Building Council  
2 and we were some of the first members in the 1990s  
3 and have always been aware of and supportive and, in  
4 fact, used the lead method of rating our buildings.  
5 But we ran into some real difficulties in getting  
6 that whole methodology in alignment with our  
7 aggressive building program.

8           We have happily reported this morning that  
9 Sofia had received a lead certification. That  
10 certification came two years after the building was  
11 completed. So if the lead process takes twice as  
12 long as it takes to build the building, there is a  
13 disconnect there.

14           And there are some other issues, some  
15 procedural alignments that were a challenge to us.  
16 There were some costs that were involved. It did  
17 not align very easily with the design build delivery  
18 and the lead certification was single building  
19 focused, while we are campus focused. And we  
20 continue to work with USGBC on those elements.

21           In the early years, we were an  
22 organization, an agency that were self-certifying.  
23 And there are other agencies that we're doing that  
24 for all the reasons that I mentioned. And we're  
25 happy that we know can become a little more

1 legitimate, mainline with USGB strategies, and in  
2 fact are pushing to have a silver certificate on all  
3 of our buildings. In fact, we build into the  
4 standard embassy design what we believe are  
5 sufficient points to at least get bronze or the base  
6 level. And we encourage our designers to try to  
7 strive for silver. And I think we'll be doing that  
8 very, very shortly.

9           But I want to get back to a comment that  
10 Suman made early on when she asked George how does  
11 what you're proposing here tie into all of the other  
12 things that are going on in this area? And that's  
13 been the real challenge for me. There's a little  
14 bit of green hysteria going on now. And that's a  
15 good thing. We're getting cables from posts every  
16 day. We have thought about things that we can do to  
17 save energy, to improve performance, and we wanted  
18 to set up an environment that encouraged that and  
19 responded to that in a real positive way.

20           So we developed something, you might go to  
21 our first slide, Mike. Yes, why don't you pull out  
22 the whole thing?

23           In order to sort of get all of the energy  
24 focused in one direction, I decided at least in my  
25 small world to establish something that I call a

1 Green Team. And this was an attempt to recognize  
2 that there are not just the critical systems that we  
3 need to worry about and where there are  
4 opportunities, but there are also side issues.  
5 There are water issues. There are material issues.  
6 There are indoor air quality issues.

7           And there is an awful lot of work that we  
8 need to tap into and that we can contribute to in  
9 terms of research and development. And I asked  
10 Donna McIntire, with some assistance from Melanie  
11 Burkmeyer (ph.), both project architects in my  
12 division, to get together an internal council of  
13 multi-discipline folks to structure themselves  
14 roughly around the major components that are part of  
15 the lead scoring system and to focus in their areas,  
16 but also in a collegial way, find ways to integrate  
17 their findings in a larger hole. And that's what  
18 Donna is going to talk to you more about now. How  
19 those individual's teams are working and what kinds  
20 of initiatives they've come up with in the last few  
21 years.

22           MS. McINTIRE: Great. Thank, Bill.

23           GENERAL WILLIAMS: Thanks, Bill.

24           MS. McINTIRE: Hi. Donna McIntire. And I  
25 wanted to thank first our panel members, Suman Sorg,

1 Craig Unger, and Nancy Goshow for their guidance in  
2 this subject. Thanks very much. And thanks to the  
3 directors for teeing up this piece of presentation  
4 and opportunity to speak with you about the subject  
5 matter.

6 Yes, Bill's support has been paramount for  
7 the program, obviously. And the way we're  
8 organized, I think, is very aligned with industry  
9 and the fact that lead rating system revolves around  
10 these five categories of concern. You'll see those  
11 in the smaller bubbles there where we have specific  
12 working groups on site, water, energy, indoor  
13 environment materials, and then we also added the  
14 research and development group. So we have  
15 specialties and skill sets from the Department all  
16 working together.

17 If you could, just back up one slide. I  
18 just wanted to, our panel wanted to definitely focus  
19 on one of the biggest drivers in the industry right  
20 now is the discussion of carbon. Carbon foot  
21 printing, carbon trading, and can you get carbon  
22 neutral. And so I wanted to tee that up for all of  
23 us to discuss a little bit and first wanted to just  
24 let you know that there is really a three-pronged  
25 approach or three-step approach when you're talking

1 about getting carbon neutral. And we're talking  
2 about carbon emissions and how that affects  
3 greenhouse gases and global warming.

4           But there is three ways of getting carbon  
5 neutral. One is reducing your energy or getting  
6 more energy efficient. The second would be leaning  
7 more towards renewables and then the final would be  
8 actually offsetting your carbon by doing other  
9 things, such as planting trees, subsidizing green  
10 powers and stuff like that.

11           The backing for these, number one the  
12 backing for the energy efficiency really comes from  
13 the Executive Order, the new one that President Bush  
14 signed this year, 13423, which is strengthening the  
15 federal government in the areas of environment,  
16 energy and transportation. And that Executive Order  
17 asks us to reach a 30 percent reduction in energy  
18 consumption by 2015, across the board.

19           Then the next one, renewable resources is  
20 also backed by that same Executive Order, which  
21 asked us to have 50 percent of our energy coming  
22 from renewable sources. And that's today. So  
23 that's a hard one to tackle.

24           And then the final discussion piece is  
25 carbon offsetting is really more of a new topic, I

1 think, for the industry and I think some of the  
2 panelists are going to discuss it a bit further.  
3 But there is a bill circulating in Congress right  
4 now called the carbon offset bill, and Jonathan  
5 actually helped me pull that out from Congressman  
6 Waxman is heading up that bill. And there is a  
7 couple of points that are really interesting within  
8 that bill. It's asking us to become carbon neutral  
9 by 2030, so that's a big challenge, for buildings  
10 over 40,000 square feet or with an operating cost of  
11 \$75,000 a year or more.

12           It also asks us to meet lead silver, as  
13 Bill was talking about, or lead gold, if we could  
14 incorporate some more renewables and justify them  
15 with payback.

16           And then finally, it asks us to involve the  
17 Energy Star program and their portfolio managers, so  
18 that government can start to tally up and know what  
19 exactly they are doing in all areas and public  
20 disclosure.

21           Okay, so now we can move to the next could  
22 of slides, because I'm going to talk a little bit  
23 about what the Green Team is doing. If you could,  
24 go to the next slide.

25           One of the things we started two years ago,



1 we did a lighting study of how could we become more  
2 efficient in our lighting in our buildings. So we  
3 had Nancy Clinton involved, and Archie Cal (ph.) did  
4 this great study for us and came up with the fact  
5 that if we did a few things like, rather than  
6 recessed lighting, if we did use the direct indirect  
7 method, which is hanging the fixture below the  
8 ceiling and using the ceiling as the light fixture.  
9 These types of things could help us reduce our  
10 lighting load and our energy cost load by about 11  
11 percent annually, which is about a quarter of a  
12 million dollars over the 24 lifecycle.

13           Next slide, please. Then we also  
14 incorporated or initiated a wind study. Where in  
15 the world can OBO build wind turbines and harness  
16 wind power in a feasible manner? And we have found,  
17 through the study, that it's more difficult than you  
18 might think. Wind mapping is not done by most of  
19 the countries. We only have 34 percent of the  
20 countries actually mapping their winds. And then  
21 the high resolution wind maps are only by these 30  
22 countries here, on this chart. So, we don't have  
23 wind data on a lot of the areas where we're  
24 building.

25           Next slide. But we are completing the

1 study, which is going to point to a few areas like  
2 Tbilisi, Valletta, Monrovia, Managua, and Freetown  
3 are good opportunities, we think for wind power.

4           We're looking at 100-kilowatt turbine,  
5 which you can see on the scale chart, about the size  
6 of the turbine we are looking for. We need about  
7 two acres on the site or some site that we own and  
8 operate to have onsite power. This has about a  
9 five-year payback, so it's a good resource for  
10 supplementing our power sources and reducing our  
11 peak load.

12           Next slide, please. We're also looking at  
13 photovoltaics. We've done a study comprehensively  
14 of all of our locations and the power rates in those  
15 different locations will tell us where photovoltaics  
16 is most cost effective, of course, combined with the  
17 availability of sunshine. But you can see, we're  
18 looking at two to four to ten year paybacks in many,  
19 many of our countries. So we really could harness  
20 those. It does have an upfront cost, but the cost  
21 is well justified in the lifecycle of the building.

22           We're looking at, right now we're doing  
23 Geneva, Abidjan, Munich, and Athens. We're all  
24 looking at, we've already put it in place in Geneva,  
25 but the other ones, we are in development.

1           Go ahead. We're also looking at vegetative  
2 roofs. And that is similar to the wind in a little  
3 bit of way that you know, it's not applicable  
4 everywhere. You have to have a certain amount of  
5 climate conditions to make it really feasible. You  
6 don't want to just build it anywhere. It does have  
7 an energy savings of about 90 cents per square  
8 meter. So it's a good energy saver. It's good in  
9 terms of reducing our storm water infrastructure  
10 costs. It has a lot of benefit, including  
11 increasing the lifecycle or the life of the roof  
12 itself. By taking the sun off of the roof, you  
13 actually maintain your membrane longer.

14           These are extensive roofs, rather than  
15 intensive roofs. It used to be in the 70s we would  
16 put two feet of roof on top of the roof and plant  
17 trees and all kinds of stuff. Now it's really down  
18 to three, four, six inches, you know, of soil. It's  
19 very similar to the ballasted roofs that we do  
20 nowadays. The system is very much the same.

21           Okay, next. The last slide, yes, we've  
22 done this matrix and the vegetative roof study is  
23 complete now and we're starting to apply it. We  
24 have a couple small green roofs, but Oslo, which is  
25 coming up, we will definitely have a green roof on

1 that, because it's part of the way we got a little  
2 extra square footage on the site, requiring a green  
3 roof.

4           Go ahead. The last section here is the  
5 water resources. This is something we just funded  
6 this year, this fiscal year, is a water study. A  
7 comprehensive study of all of our systems to see  
8 where we had inconsistencies maybe or we might find  
9 some synergies between systems where we can save  
10 water, increase our efficiencies. These are areas  
11 like reusing our wastewater, when we have a  
12 wastewater treatment plant. Right now, we just  
13 flush it down the storm sewer, we're done with it.  
14 But we treated it. It's nearly to a potable water.  
15 You know, nobody's going to drink it again, but we  
16 could use it again onsite for irrigation and that  
17 type of thing, increasing our efficiency in the  
18 landscaping and other areas of the building.

19           So that was the topic areas that I wanted  
20 to tee up and I turn it over to the panel.

21           GENERAL WILLIAMS: Okay. Why don't we just  
22 go right into the industry team and then we will ask  
23 questions.

24           MS. SORG: You know, I like the topic. We  
25 said, "What is new in sustainable and environmental

1 design?" So basically, what's new is, frankly, it's  
2 getting old in the sense that, thank heavens it is  
3 getting old, because it is becoming mainstream. And  
4 no longer is it an interesting experiment. It's  
5 really mainstream. It's not an exotic thing  
6 anymore. It's becoming normal. Even in our own  
7 practice, which you know, there's a bit of a  
8 generation gap in this industry.

9           You know, those of us older practitioners,  
10 I'll say, think that they were always designing  
11 green and what's new about it? But now, we find  
12 that things are coming around full circle in the  
13 sense that we used to talk about ecology, if anybody  
14 remembers that word from the 60s and we talked about  
15 all of this back then, but now we are back to making  
16 all that very normal.

17           And I think the push really is coming from,  
18 next slide, you know, government. What is happening  
19 is that most people, and government is taking a lead  
20 here, most people think, and there's a survey done  
21 by the AIA, and by the way, I represent the AIA on  
22 this panel who is an early and enthusiastic partner  
23 of the USGBC in green building design for quite a  
24 while now, and has done a recent survey on this  
25 issue and found that most people, 75 percent of the

1 population believes that government should take a  
2 lead on reducing global warming, really. And that  
3 all over, including the District of Columbia, laws  
4 are being passed where private and public sector  
5 buildings have to meet certain lead design criteria.  
6 And taxpayers willing to pay for these, which is  
7 another thing that is really encouraging. Even in  
8 counties, even in capital projects in our local  
9 counties, we see, you know, in Montgomery County, a  
10 lot of funding coming in for green building design.

11           And OBO, of course, has special challenges,  
12 but with the new Sofia, Bulgaria building, I think  
13 it can be a great model for your other buildings.

14           Next slide. The latest of course, is  
15 carbon neutral goals. And there are a number of  
16 large organizations, you know, probably comparable  
17 to OBO, like Yahoo and Google. I think Google is  
18 the first that is going to be carbon neutral by  
19 2007, MIT and Harvard by 2010. And I think these  
20 are very aggressive goals, but there are big  
21 challenges to your program in becoming carbon  
22 neutral because of --

23           I guess another thing I don't understand  
24 very much, but I guess the Buy American Act makes it  
25 not possible to buy things locally and put them in

1 the embassy or there might be also security issues  
2 about buying things locally and not having huge  
3 transportation, you know, carbon usage, in terms of  
4 security. In other words, how do you inspect what  
5 you are buying locally and how do you install it?  
6 So there are some issues.

7           We talked a little bit about green power.  
8 We are seeing locally here, in the Washington area,  
9 a lot more buildings going partially fueled by  
10 geothermal. And I don't know if OBO is looking at  
11 geothermal, but that's becoming even common in  
12 private sector buildings where, even if you have a  
13 two-acre site, we are seeing people wanting to do  
14 geothermal.

15           Energy consumption, you know, Donna just  
16 talked about. And emissions, I think the emissions  
17 thing is, you know, also perhaps a challenge for  
18 OBO, because one of the ways to reduce energy  
19 consumption and hence reduce emissions is to use  
20 natural ventilation, which is not possible with  
21 security windows. But perhaps there is a way of  
22 looking at the SED again and incorporating some of  
23 these things.

24           So I think, you know, there were wonderful  
25 articles in the New York Times Magazine about two or

1 three months ago and you know, it's like anything  
2 else, it's almost worrisome that green may become a  
3 fad and not a fact. And I think that that -- but I  
4 don't think that that's going to happen. But OBO  
5 actually definitely has a great opportunity to be  
6 greener than green, because of you're building in  
7 many, many different climates, many, many different  
8 cultures. And I think it would be great to see how  
9 even an increase in the greenness of embassies could  
10 be a huge impact in all of these places.

11 GENERAL WILLIAMS: Thank you. Is there  
12 another presenter? Okay, go.

13 MS. GOSHOW: If you could go back to the  
14 first slide that we had. I think it's kind of a  
15 summary slide of everything that OBO is already  
16 doing. And Donna had asked me to look into carbon  
17 offsets. And what I'm trying to do is trying to  
18 present a complete picture in very simple terms so  
19 everyone can understand.

20 We all studied in high school or junior  
21 high biology that plants eat carbon dioxide and they  
22 give off oxygen. And that's a great thing because  
23 we need oxygen and we give off carbon dioxide. It's  
24 a very cool thing, right? Very balanced. And so  
25 the idea with offsets is as we are destroying the



1 plants on this planet, we are reducing the amount of  
2 oxygen producing organisms that we need to live. So  
3 the concept with carbon offsets is that if our  
4 buildings are going to give off carbon dioxide,  
5 which they do, shortened to carbon, then we have to  
6 offset that somehow.

7           But there are three ways to do it. Offsets  
8 is only one part. As everything in life, everything  
9 is interrelated. So there are really three ways  
10 that Donna mentioned. I just want to repeat this  
11 again. There is energy efficiency, there is  
12 emission offsets and there is renewable energy. Now  
13 OBO is currently doing things on energy efficiency.  
14 You are studying your interior lighting systems.  
15 That's going to reduce energy use. You're reducing  
16 the amount of energy wasted in your buildings by  
17 looking at your heating and your cooling and also  
18 building insulation. And with these high efficiency  
19 systems, that's all helpful.

20           In terms of emission offsets, planting  
21 trees, reforestation, I believe green roofs can  
22 sometimes be considered for carbon sequestration,  
23 which is what an offset is. You take the carbon,  
24 you sink it into a carbon sink and these plants just  
25 keep sucking it in. And that's just kind of the

1 concept. You begin to think about that there may be  
2 opportunities to apply that. And then of course the  
3 renewable energy, which is using power onsite that  
4 you have solar, photovoltaics, wind. There is also  
5 passive solar, in terms of how we design these  
6 buildings, how we site them on the building, in  
7 terms of where the sun travels, the climate, things  
8 like that.

9           Hydroelectric power, maybe. But I believe  
10 in most of the locations where OBO builds, water is  
11 an issue. It's a every important issue that is  
12 missing as one of the components. So hydroelectric  
13 is probably not an option.

14           Biofuels are an alternative fuel, but they  
15 still produce carbon. Geothermal is an option, but  
16 it's expensive to dig these very, very deep wells,  
17 and my understanding is they are oftentimes dug with  
18 carbon dioxides. So there are emissions that occur  
19 when you dig these wells.

20           And so renewable energy in terms of the  
21 three you're looking at, solar, photovoltaic, and  
22 wind, would probably be the three best options to  
23 look at. But the most important thing, I think, for  
24 OBO is to look for a baseline of the emissions you  
25 are currently putting out and look for a way to

1 reduce that. Without having that baseline of what  
2 you're giving out, it's very difficult to see if you  
3 are achieving reduction, because reduction has to do  
4 with what are you currently doing?

5           And as Donna mentioned, by 2015, 30 percent  
6 reduction, this is with this new bill, the lead is  
7 40 percent reduction and a lead is going to go to 50  
8 percent reduction by 2030.

9           One other new thing I wanted to mention is  
10 there is a new standard that is being developed, I  
11 don't know if anyone else here knows about it,  
12 called a living building. And I don't want to go  
13 into it yet, because maybe we can talk about it  
14 another time, but it's a whole new standard and  
15 something that OBO needs to be thinking about  
16 because it will be here.

17           And so looking again for this baseline of  
18 emissions will help you understand how OBO can  
19 become carbon neutral with zero emissions.

20           That's it.

21           GENERAL WILLIAMS: Okay. Thank you.  
22 Questions? Yes, Craig?

23           MR. UNGER: I'll add some commentary here,  
24 as opposed to a presentation. But I would like to  
25 offer, you'll think I never left, as if I won't be

1 advocating for the Design-Built Institute of America  
2 I'm sitting here representing. But what a natural  
3 fit for, again, it's a collaborative relationship.  
4 It's taking the interdisciplinary functions, cross-  
5 pollinating, integrating the process with not only  
6 the designers, and contractors, subs, and suppliers,  
7 manufacturers and unleashing them will surprise you.

8 I recently had an opportunity to work with  
9 the National Renewable Energy Labs in Denver  
10 building a new headquarters, going for platinum and  
11 very, very focused on the performance requirements  
12 and wondering what type of interest they would get.  
13 And it currently, in the design criteria stage,  
14 getting a tremendous interest for design builders  
15 teaming up wanting to try to obtain that platinum  
16 status.

17 And I will say again, from, and I'm not  
18 sure I understood Bill's comment earlier about some  
19 of the issues you had with US Green Building  
20 Council, but again, taking advantage. And what I  
21 see some agencies don't do is in that two-phase  
22 negotiation Design-Build project delivery gives you,  
23 particularly in this area, or BIM, Building  
24 Information Modeling, or lean construction, it's the  
25 only, that I know of, project delivery that allows

1 you to interact with industry live, legally  
2 throughout that procurement. This is a perfect area  
3 to take it beyond basic certification and bronze, if  
4 not looking for silver and beyond.

5           And I've heard several of a the studies  
6 I've had a chance to work with the Corps of  
7 Engineers, whom you may know mandates lead silver on  
8 all the MILCON transformation. And a lot of the  
9 design-builders in the room will tell you, get me  
10 involved upfront with my team, I can get you lead in  
11 even bronze, and sometimes silver, depending, with  
12 not a lot. And if you want gold and platinum,  
13 you're going to spend some money on that. But  
14 getting this team engaged early on, they may  
15 surprise with what you may be able to obtain.

16           And my final comment, we focused a lot on  
17 the financials and the environmental friendly.  
18 There is that third section that you may want to  
19 take credit for. You may be doing a great job here  
20 in your 50 plus new embassies that you've opened,  
21 General, and that is the social side of lead  
22 sustainable buildings. We know natural lighting and  
23 thermal and acoustical, but even views and having a  
24 very user-friendly worker environment with  
25 productivity goals. If this were the private

1 sector, we would measure productivity quite well,  
2 but the other is sick leave. And at least in my  
3 agency, we measured sick leave pretty easy. I would  
4 be curious at what your sick leave usage has went  
5 down in some of the facilities that you have brought  
6 online because of that safe secure environment.  
7 Because even, you know, most of us know in the  
8 lifecycle cost of the building, its operations and  
9 maintenance and labor are your major cost factor  
10 expenses. And even a two percent change would be  
11 huge, a contribution that you've made that you may  
12 not be tracking, or you may be, that I'm unaware of.

13 But, thank you.

14 GENERAL WILLIAMS: Excellent. Excellent  
15 across the board. Now, other panel members who  
16 might want to speak to any of that? Yes, Clare.

17 MS. ARCHER: I've got a question. I know  
18 from the building industry perspective, we've  
19 embraced green building and most of our peers have  
20 all been very active in building buildings that have  
21 gotten lead certification. We recognize that there  
22 is, and you probably do too, that there is some kind  
23 of cost premium that is associated with that, though  
24 we're seeing that, you know, at least from a first  
25 cost perspective, going down significantly as green

1 becomes more mainstream, products are more readily  
2 available. The design industry is more well versed  
3 in how to most efficiently meet the lead score card  
4 requirements.

5 But I'm curious. What kind of first cost  
6 premiums have you seen and are you seeing a  
7 reduction in those costs like we are, outside of the  
8 OBO environment?

9 GENERAL WILLIAMS: Bill? All right, Donna?

10 MS. McINTIRE: I can speak to that. We did  
11 a study early on, maybe five, almost five years ago  
12 maybe, where we studied where we are because lead  
13 always, how much lead costs depends on where you are  
14 as a program. If you start and you already have  
15 commissioning in your program, then it's not an  
16 increased cost for you to achieve lead because you  
17 have to do that.

18 So, initially, there was about a \$200,000  
19 cost, initially, to add those types of things that  
20 we weren't doing that we would have to do in order  
21 to achieve lead certification, which is just the 26  
22 points. But now what we're seeing is that a lot of  
23 these ideas and requirements have been integrated  
24 into the said documents, into the requirements of  
25 the specification. So what we're seeing now is that

1 there really is not an increased cost, at this time,  
2 to get lead certification. The only cost is the  
3 actual fee to the OSGBC, which varies according to  
4 the square footage of the building, which is the  
5 neighborhood of about \$3,000. So right now, we are  
6 already asking our design-build teams to register  
7 the project, to collect all the documentation  
8 online. We just have not asked them to push that  
9 final button and do the certification. And that  
10 would be a small increase in cost.

11 Now the issue with that, of course, is that  
12 it's a third party certification and therefore, you  
13 are asking the contractor to be obliged to this  
14 third party for the actual certification. So that's  
15 a bit of a barrier and we don't want to bog the  
16 contractor down with getting that final piece.

17 GENERAL WILLIAMS: Okay, thank you. Yes,  
18 Greg?

19 MR. KNOOP: You know, I really was  
20 sensitive to the comment that it could be just a  
21 fashion and really what should be an economic  
22 juggernaut. You have a tremendous sized building  
23 program and you can shape the market with that  
24 building program. You've done that through the  
25 things like you have a standard spec for FEBR



1 windows. And essentially, it's a no tolerance. You  
2 meet this standard or you don't put your window  
3 product in our building.

4 Kaiser Permanente has a two to three  
5 billion dollar building program a year. They took  
6 that program and said we will not tolerate any vinyl  
7 in our carpet. We want a vinyl-free carpet. And  
8 they shaped the market, calling to Collins and  
9 Aikman responded to it. It was very competitive.  
10 You know, hundreds of millions of dollars of carpet  
11 are being put into their buildings. So they shaped  
12 the market.

13 I think OBO has the opportunity, as do  
14 other federal agencies, to establish a no tolerance  
15 level. We have a responsibility to do it right.  
16 And there are economics that will benefit us, but we  
17 can also shape the economics by using our simple  
18 buying power to motivate the market to change and to  
19 provide us the types of products and the types of  
20 systems that will meet the need and make lead. I  
21 mean, lead should be something that we, we use it  
22 sort of as a word, and the lead stamp goes on here,  
23 but as someone said earlier, it used to be, once  
24 upon a time before energy was free, you know, and  
25 before energy was cheap, basically, we had to build

1 that way.

2           Look at your federal buildings that were  
3 built in the 1920s in double-loaded corridors and  
4 windows that could open. They were done like that  
5 for a purpose. We didn't have air conditioning. So  
6 we have to look at changing the market and our  
7 responsibility to do that. And I think we have the  
8 power to do it because we are empowered with such a  
9 large volume of construction dollars and  
10 construction square footage. I don't know, how we  
11 would be able to attempt to do that, I guess would  
12 be the form of a question.

13           MS. McINTIRE: We do shape the market in  
14 some ways. We had a waterless urinal program this  
15 year where we replaced so many urinals across the  
16 board that we're saving eight million gallons of  
17 water with that program. So that's huge. And we  
18 gave them a list of different manufacturers that  
19 would meet our performance criteria and I got a  
20 couple calls saying, oh my gosh, there's a run on  
21 waterless urinals, what's going on at OBO? So that  
22 was a good thing.

23           I mean, that's a small token, but I think  
24 you know, you're right, the energy systems, the  
25 mechanical systems. You're right when we were

1 talking about the air system versus the water  
2 system. That could drive the market, that type of  
3 thing.

4 MR. KNOOP: Yes, you've empowered the  
5 market, too. The people who responded to that are  
6 now in a driving position to push their product.  
7 They've taken a leap forward. It's been the tipping  
8 point for them. So that's an important thing to  
9 recognize. We're buying American, let the American  
10 market respond to our buying power and our  
11 influence.

12 GENERAL WILLIAMS: Excellent. Darryl, your  
13 light is on.

14 MR. HORNE: My light is on, yes, sir. I  
15 want to follow up here because I do think there is a  
16 significant opportunity for OBO in this regard. I  
17 think that US Fish and Wildlife reports that over  
18 the next 30 years, some 70 percent of all buildings  
19 will be either modernized, replaced, or will be new.  
20 And they are focused on making sure that the things  
21 that you are doing here today are happening in these  
22 buildings, if we are going to do anything about this  
23 carbon footprint.

24 I would like to get back to what Nancy  
25 said, though, because I think she said it all, in

1 the fact that we're talking about a carbon  
2 footprint, I think the opportunity for OBO is to  
3 absolutely be able to measure its carbon footprint  
4 over these facilities across the world.

5           Interesting, that we're looking at a time  
6 right now where the U.S. is not participating in the  
7 Kyoto Protocol and where the rest of the world,  
8 where most of your opportunities are, already have  
9 some type of regulatory or compliance scheme in  
10 place for climate change. And so we're looking at  
11 it here from a perspective that our congress right  
12 now is still talking about. Right now we have a  
13 voluntary program but most of the rest of the world  
14 has programs that are already regulated.

15           So the opportunity, I think is really, I  
16 think what you're going to find if you go out and  
17 actually do your footprinting, you're not going to  
18 have as big of a footprint, as most of the  
19 industrialized world is going to have. You  
20 basically have ten-acre site across all of your  
21 facilities.

22           We're working with companies in private  
23 industry right now and here's what is happening.  
24 They are racing to be the first to set the standard  
25 for where climate change is going, particularly in

1 respect to carbon. The largest producer of carbon  
2 today, the American electric and power can monitor  
3 every time there is a panel of carbon that goes in  
4 the air, they know it. Every panel. And this is  
5 the largest producer, so I'm thinking that, and  
6 what's happening right now, they're monitoring this  
7 using a lot of the web-based remote monitoring  
8 systems that are available to industry today. So  
9 getting that carbon footprint I think is the  
10 opportunity to really setting the standard for all  
11 federal agencies. Because you're doing it and  
12 you're making a significant impact to the climate  
13 conversation that's going on right now. You are  
14 doing it already in the things that you're already  
15 doing.

16           So I don't think you're going to find that  
17 your carbon is going to be as high as most industry  
18 and that the offsets are going to be minimal.

19           GENERAL WILLIAMS: Well thank you. Yes,  
20 Nancy wants to say something. You see, when we get  
21 started we just forget about lunch?

22           Okay, go ahead.

23           MS. GOSHOW: Okay, I'm an entrepreneur. So  
24 I think OBO, and this is a way out idea, so bear  
25 with me. I think OBO is sitting on a future

1 economic development opportunity. And I recently  
2 was in Paris at the embassy in Paris and part of  
3 transformational diplomacy, and actually part of the  
4 diplomatic mission in Paris, is economic development  
5 for United States companies developing businesses in  
6 foreign lands and vice versa.

7           So, if carbon offsets are things that can  
8 be traded, and they are being traded, and it is very  
9 new, but it is occurring, and if OBO can become a  
10 producer of carbon offsets, there are several things  
11 that could go on here. Number one, in terms of  
12 transformational diplomacy, the Department of State  
13 could become a generator of teaching other countries  
14 how to create carbon offsets, so that it becomes a  
15 business opportunity, an economic development.  
16 There would be incentives for people in these  
17 countries to embrace this because we are bringing  
18 something to improve the quality of their lives.  
19 And also, I think then it's a respectful way to be  
20 in a host country.

21           I'm sorry for the crazy way out idea, but I  
22 thought I should just point it out.

23           GENERAL WILLIAMS: I think that is  
24 excellent. It's a good idea. And since we have  
25 some freedom on the topics that we discuss and

1 obviously sustainable platforms and the like is  
2 center stage to what we do, so, we will have a topic  
3 at the next IAP that speaks around, we'll frame it,  
4 but how we can use our sustainable design and  
5 environmental approach to assist with transformation  
6 diplomacy.

7           And that connects to the larger mandate.  
8 It also helps with everything else that we are  
9 doing. As you said, it's the softer side of things.  
10 And quite frankly, it might be what some places we  
11 work with just like to hear about.

12           So, we are very serious about this. We  
13 wish we had a whole day on it. We're going to give  
14 it another round next time. So if this panel that  
15 is in place would just stay in place and continue to  
16 work on that topic, we will pick it up again with a  
17 little different spin with sort of the social  
18 environmental transformation diplomacy spin on the  
19 whole issue. Okay?

20           Now, Michael, tell us what we must do here.

21           MR. SPRAGUE: Well first of all, I wanted  
22 to let the panel members know that they will be  
23 going to lunch with the managing directors in the  
24 dining room on the seventh floor.

25           GENERAL WILLIAMS: You're not going to let

1 me go?

2 MR. SPRAGUE: We'll let you, of course. I  
3 mean, we would have to -- that would go without  
4 saying.

5 GENERAL WILLIAMS: Right.

6 MR. SPRAGUE: All the other guests, when  
7 you are at the --

8 GENERAL WILLIAMS: So you make people think  
9 that I have a separate elevator.

10 (Laughter.)

11 MR. SPRAGUE: We know better.

12 GENERAL WILLIAMS: I'm surprised at you.

13 MR. SPRAGUE: Okay. The other guests will  
14 need to be escorted to and from the cafeteria. If  
15 you look you will notice all the OBO staff have red  
16 badges and they will be more than happy to escort  
17 small groups of you to and from the cafeteria.

18 And, General, what time should reconvene?

19 GENERAL WILLIAMS: Let's come back at 1:15.

20 MR. SPRAGUE: 1:15, all right.

21 (Whereas, a lunch recess was taken.)

22

23

24

25





1 thing. And for those of you were here last session,  
2 I was doing costs at that time. I still am doing  
3 cost, but value engineering is in planning now as  
4 Directive Williams number seven and value  
5 engineering is within the cost management division.

6 So before I get started on my remarks, I  
7 know several of you in the room, I've seen faces  
8 before, but I wanted everyone to get a sense of the  
9 room. How many of you have actually ever sat in on  
10 any kind of VE presentation or study at the  
11 Department of State? I know there are several.

12 (Show of hands.)

13 MS. BETHANY: Great, thank you. I want to  
14 thank you for your efforts on that process, because  
15 it is one of our critical processes that we do to  
16 try to bring projects into the best function they  
17 can be. So that was excellent.

18 I also want introduce, I'm sorry, I almost  
19 forgot, Angela Collins. She is leading the value  
20 engineering program right now and is working for me  
21 in the cost management branch. So if you have  
22 questions on value engineering and you can't find  
23 me, she's the one to go to.

24 So the first slide, just to give a quick  
25 refresher, value can mean many things. If you look

1 at this definition, it's a user's initial  
2 impressions versus satisfaction and use. Well, if I  
3 were to ask around the room, each one of you, what  
4 does that mean to you? I'm going to get different  
5 answers from every person. So the challenge within  
6 value engineering is defining what that value is to  
7 the organization and just determining how we can  
8 measure that. So, the other thing I wanted to point  
9 out is that value engineering is not cost cutting,  
10 because if you look at the definition of cost  
11 cutting, it's basically looking at just first costs.  
12 Value engineering, just like we were talking about  
13 sustainable design earlier, looks at lifecycle  
14 costs. And we try to look at the whole picture.

15 So the next slide. This takes the  
16 definition of value and puts it into what is value  
17 engineering? It is a process that is function  
18 oriented, systematic. It's a team approach, very  
19 similar to what we're doing in this room, talking  
20 about ideas, applying creativity. And it  
21 concentrates on lowering lifecycle costs, improving  
22 quality, performance, and yes, there is an initial  
23 cost reduction element to it.

24 So our program requirements at OBO, which  
25 are also dictated by Section 36 of the Federal

1 Procurement Policy Act, it's Public Law 106104 is  
2 that all projects over a million dollars with  
3 problems over budget or with potential for  
4 improvement, must have a VE study in place or a  
5 waiver. We do have a waiver program that is pretty  
6 strict. We don't necessarily grant them every time.  
7 But it must be in place before they reach the 35  
8 percent design stage.

9           Next slide. So how does value engineering  
10 benefit OBO? We want to get the most functional  
11 facility that is worth its cost by giving us the  
12 biggest bang for the buck, and the buck doesn't mean  
13 just the initial cost, but worth the total cost.

14           Next slide. This slide is a little bit  
15 hard to read but it tells the story really well as  
16 to why we have moved value engineering into the  
17 planning stage.

18           As you can see, there are three columns.  
19 One is planning, one is design development, and the  
20 other is construction stage. These are when we have  
21 had VE studies performed. And measuring the actual  
22 results from the study, how much was saved and  
23 comparing it to the cost of the value engineering  
24 program, the return on investment on the design-  
25 build projects, which is the dark blue line, for 38

1 studies is well over \$140 to \$1, when we do the VE  
2 study during the planning stage. And as you know,  
3 we do most of our projects design-build. If we're  
4 doing them during design bid build, it's still  
5 during planning is the best time to do the VE study.  
6 We're getting over \$81 to \$1 in return on  
7 investment. That's not to say that we shouldn't do  
8 it during design because sometimes things change or  
9 there are some issues that need to be resolved and  
10 even during design, on design-build projects, which  
11 is, this is after the award of the design-build  
12 contract, we're still getting \$20 to \$1 return on  
13 investment when we do them at that stage. And we  
14 don't do them all the time.

15           So, how do we do this? It feels a lot like  
16 this a lot of time. You know, and yes, when I saw  
17 this slide and I think it's a picture of me in there  
18 sometimes.

19           The components of our VE program are we  
20 have a very strong value engineering study program,  
21 so we do studies during the planning and design. We  
22 have construction initiated, value engineering  
23 change proposals. This is during project execution  
24 if the design-build contractor, I know somebody was  
25 mentioning working together, I think Craig, who is

1 not here, working together with the industry to come  
2 up with ideas to make better value for our projects.  
3 We do that as well.

4           And we also have an analysis on lessons  
5 learned component to our program. And this is where  
6 I start to get into what is new in value  
7 engineering. We do something called a VE assessment  
8 trip and we also have a database of every VE  
9 alternative that has ever been made during our  
10 program. So we can analyze trends and get into  
11 lessons learned or into the said change request  
12 program, ways of improving our designs for future.  
13 What I'm hoping for with the program is to bring the  
14 return on investment down, especially if we're  
15 building similar buildings. We shouldn't be seeing  
16 a trend upwards, we should be seeing a trend  
17 downward as we improve on our process.

18           The next slide is the typical overview of  
19 our VE study schedule. I know I think that some of  
20 you may have seen this before, but we follow the  
21 same thing that SAVE International recommends in  
22 terms of how we do value engineering. A little bit  
23 different is our post-study in our approval  
24 implementation and database of alternatives and  
25 results. That's slightly different than what SAVE

1 is recommending, but that's because of the nature of  
2 what we're trying to do is to define trends and  
3 analysis over the life of the program.

4           So this next slide is kind of focusing on  
5 that process. The way it used to work was we'd give  
6 the team the VE report after the VE study was done  
7 and by team I mean the OBO, in-house team that is  
8 putting together the project. In a lot of cases  
9 it's the planning team with design and engineering  
10 participation, along with cc. They get to review  
11 the report and then they'll make a determination  
12 which recommendations get implemented. Then coming  
13 back to me as a value engineer or to Angela now is  
14 the memo that says what the team is putting forward  
15 for acceptance of VE recommendations.

16           Any delays or cost increases on initial  
17 costs go to the General with a decision memo to  
18 implement, especially if it's something that is  
19 going to save lifecycle costs.

20           And now this is my opportunity for me to  
21 make a comment about the sustainable design. During  
22 the VE study, we will have sustainable design  
23 experts. I know Greg has been on teams before and  
24 he's got the background in sustainable design.  
25 Those are recommendations that do get forwarded, but

1 I do have to take a little bit of exception with an  
2 answer that was given earlier about the cost of  
3 sustainable design. In some cases, some of the  
4 recommendations or the new technologies that we are  
5 putting in do cost more money. They cost more  
6 initially. Putting a green roof on, because the  
7 technology is new, can cost more money up front.  
8 But we are looking at ways of reducing that cost and  
9 reducing the impact and incorporating it into our  
10 standards. Yes, it's being built into our costs.  
11 We know that, but we're also trying to save O and M  
12 costs for the future and for what our tenants are  
13 going to be having to pay.

14           So the new part is the verification. We've  
15 started this program last year, maybe 18 months ago  
16 or so to conduct site assessment trips. The problem  
17 I was having was I was getting these memos back that  
18 said these are what we planned to implement, but I  
19 didn't have a sense of what actually was implemented  
20 over time. And because this is a congressionally  
21 mandated program and we have to report to the OMB  
22 every year what results we actually had, I could  
23 see, if I put myself as an auditor and go out and  
24 look at some of these projects, would I actually see  
25 that the value engineering recommendations that were



1 put forward were implemented or not. So we started  
2 this program of going out and looking at it.

3 We're validating implementation. We're  
4 also gathering lessons learned. The team that went  
5 out would be myself or Angela, somebody from the VE  
6 office. We would always take somebody from the VE  
7 team that did the study and maybe one or two other  
8 people to go out and help look at the project during  
9 construction before it was all buttoned up so that  
10 we can make sure that we could see. If there was a  
11 recommendation on a mechanical system, you could  
12 actually see whether or not it had taken place.

13 The interesting thing on this was that we  
14 visited 15 sites, which incorporated 22 VE studies.  
15 Now, you might ask the question why 22 versus 15.  
16 Well, sometimes we did two studies on a project, or  
17 there may have been a study on the annex building  
18 that followed study that was done on the embassy  
19 compound proper.

20 If you were just to stop after the VE study  
21 came in, there was 712 proposed alternatives on  
22 those 22 studies. And I got a memo, or we got memos  
23 back from the teams that said they were accepting  
24 184. That's all well and good, but I didn't have a  
25 strong fuzzy on how many were actually accepted.

1 When we went out to the site, we found out that  
2 actually 290 had been implemented. So, it was kind  
3 of interesting to go through and see. Oh, this is  
4 interesting and, in some cases, it was an idea that  
5 came in later that it just happened to be the same  
6 as what had been in a VE report earlier from a  
7 contractor or maybe through a changes clause, still  
8 trying to find out whether or not this is going to  
9 continue. We're continuing this program to go out  
10 and look at this, but it is bringing back some  
11 lessons learned.

12 Yes, in some cases, if a project had a  
13 problem with budget, they started going back and  
14 looking at, well what did we leave on the table? Is  
15 there something else we can do to improve the  
16 project? Maybe during the early stages of planning  
17 or design they were like, oh, no, no, no, we need to  
18 leave this, but then when they actually started  
19 building it and said no, we can't afford a function  
20 if we don't find something else to take money, they  
21 would go back and do this.

22 So it was kind of an interesting process.  
23 And I'm sure Greg can talk to it. He was one of the  
24 people that went with me on one of the trips to look  
25 at the site. And it was invaluable, I believe, for

1 the team members as well, because they were learning  
2 why their recommendations, when you look at 712  
3 alternatives, why some of them weren't able to be  
4 implemented. So it's going to make future value  
5 engineering reports better because it should help to  
6 bring good recommendations in that can be  
7 constructed. So it brings in the constructability  
8 aspect of the recommendations.

9           So next slide. So what have we  
10 accomplished when you talk about the program  
11 summary? The value engineering program in total  
12 from 2000 to 2007, the cost of the program was about  
13 nine million dollars. We did 157 studies. We saved  
14 514 million dollars. That includes almost a hundred  
15 million in O and M savings. The return on  
16 investment from that, just those years, is \$57 to  
17 \$1. And as I said before, I'm hoping that that  
18 number will drop because we want to start seeing  
19 the improvements take hold. We implemented 2,030  
20 recommendations.

21           So the next slide talks about 2007 and you  
22 have to understand we don't have all the  
23 implementation memos in yet, but right now we have  
24 exceeded our goals of a 29 percent proposed savings  
25 by the VE team. This is where I do my performance

1 measure on the VE teams. I go back and make sure  
2 that they are making recommendations that are  
3 implementable. Accepted VE recommendations right  
4 now, four percent and our return on investment right  
5 now, and this is with about half of the studies not  
6 having the implementation memos in, it's running at  
7 \$38 to \$1.

8           So again, the goal of the OBO program is a  
9 functional facility that is worth its cost in both  
10 initials costs and lifecycle savings. So with that,  
11 I would like to turn it over to my colleagues, Greg  
12 and John, who will be talking from their  
13 perspective.

14           GENERAL WILLIAMS: Thank you, Kathy. Okay.

15           MR. KNOOP: General Williams, panel  
16 members, Kathy and colleagues.

17           Performance, accountability, discipline and  
18 credibility. Those are all key elements that can be  
19 supported by a powerful value engineering program.  
20 Value engineering is a tool to support the pursuit,  
21 in your case, of a successful building program. You  
22 all know the old saying, measure twice, cut once.  
23 Value engineering gives you a chance to make  
24 measurement again of the task you are undertaking  
25 and study the priorities, the methodology, the

1 quality that you are pursuing so that the costs are  
2 the right costs and you get true value.

3           We're going to discuss a few value  
4 engineering trends that we're seeing out in the  
5 market and things that we think will help your  
6 program. The VE concept should start very early in  
7 the process. A couple of thoughts are at inception  
8 and then somewhere in the implementation process,  
9 and then at the conclusion. One idea that has been  
10 used is to bring in a value engineer as a  
11 facilitator to do a workshop, a design workshop to  
12 set the priorities and set the value measures for  
13 the project right from the inception, because all  
14 projects aren't the same. We might have a program  
15 like the SED program, but it's a program, not a  
16 template.

17           We want to establish the goals that are  
18 appropriate to the project and use those as  
19 measures, as we proceed forward in our  
20 implementation of the project. Next slide.

21           We talked about the SED. A value  
22 engineering workshop can help decide how we are best  
23 using the SED. Remember, the SED, is it a template  
24 or standard? Which one? Is it a kit of parts or a  
25 cookie cutter design? We're not cookie cutter

1 people out there. The United States is represented  
2 by people of all cultures and all backgrounds. So  
3 our embassies should use the kit of parts, the  
4 rules, but establish creativity as the norm, as the  
5 measure that we want to pursue. Next slide.

6           Lifecycle costs. We heard actually a  
7 presentation this morning that talked about how we  
8 are seeing beneficial effects from a lifecycle  
9 analysis. I know that that measure has come up in  
10 our studies before and it's nice to see that good  
11 changes are happening with OBO. You can't look at  
12 just simply what the savings are today. That's  
13 deplorable. We're better than that. We have to  
14 look at the future. We are the stewards of the  
15 future every time we take on a project.

16           So, we have to look at the measurements.  
17 Is the shell the same as the interior? Is the site  
18 the same as the shell? There is not one answer for  
19 lifecycle measurements. I think you have to look at  
20 the shell that is built like the pyramid, it's going  
21 to last forever. But you're a business. You're in  
22 the business of diplomacy and you change every four  
23 years, every ten years. Are we seeing churn, are we  
24 measuring lifecycle in the interiors of these  
25 buildings to respond to the appropriateness of churn

1 in the business operation of diplomacy?

2 O and M data is extremely important. We  
3 have to understand how people take care of these  
4 buildings. We talked about lead buildings. It's  
5 like buying a puppy. If you're not willing to take  
6 care of it, then you had better not buy a puppy  
7 because day one, you're going to find out what a  
8 pain having that puppy is. It's no longer cute. It  
9 has to go.

10 So buildings are the same thing. You're  
11 undertaking owning a building. You're undertaking  
12 operating a building. And what is that building  
13 for? It's for diplomats. We don't want the  
14 building to get in the way of the diplomats. They  
15 have an important job out there.

16 O and M data and O and M processes are very  
17 essential and should be analyzed by a VE team. The  
18 post habits, management and procedures. We should  
19 have a GSO come and sit in on some of our workshops,  
20 so that they can say well, that's great, but this is  
21 how I operated your facility, once I got a hold of  
22 it. We want to hear the user's impact on the  
23 building. Next slide.

24 And John, did you have any comments on  
25 that?

1           MR. WOODS: One of the things that I have  
2 seen in my experience over the years is how OBO has  
3 evolved, I would say in the 80s and the 90s. You  
4 would call it an evolution. General Williams had  
5 brought about a revolution in his time.

6           I don't have an answer for this, but I ask  
7 the question, are the buildings that are being  
8 designed and planned, are they considering how this  
9 organization OBO is going to be operating five  
10 years, ten years from now? I recognize that a lot  
11 of this is driven by security, but the question  
12 comes down, how do you redo a building in 15 or 20  
13 years? And we see this in the private sector about  
14 every five to ten years, of basically redoing the  
15 entire HVAC system, the electrical, particularly the  
16 technology. So, it is as much a question of what  
17 are you planning in the five to ten year arena?

18           MR. KNOOP: The world changes. Your  
19 buildings have to be living organisms that are able  
20 to accept to change. So be careful where you  
21 establish permanence, because it could be painting  
22 you into a corner.

23           Let's talk about risk elements. And this  
24 goes into what John, the risk elements are going to  
25 change. Right now, security is your main concern.



1 It's a serious driver. But there can be other  
2 elements that will come into play in risk.

3           The insurance industry is establishing  
4 whether bidders will go after your project and be  
5 interested in doing business with OBO. There is  
6 political risk, security risk. Cost is a risk. You  
7 deal with these ideas early, get a VE team in,  
8 analyzing these elements early and the effect. We  
9 can narrow the negative effect in the latter part of  
10 a project. Schedule is also a risk element.

11           We talked before about involving an  
12 advisory group of users and post representatives.  
13 Again, we want to see how the customer is using your  
14 product, the relationship between the building and  
15 post to help ensure that you are still providing a  
16 valuable product. And who is your customer? And  
17 that can sometimes be a serious issue. Is it the  
18 post? Is it main State? Is it we the people? We  
19 have to be able to prioritize who we are pleasing  
20 and serving as our customer.

21           Next slide. We need to look at  
22 constructability and multi-disciplinary teams. We  
23 need to get the contractors involved in the VE  
24 studies because we need to know how they procure  
25 products, how they schedule bringing product and

1 construction out to the site. Designers will sit  
2 around and talk about some of the esoterics about  
3 how this is a great design and we will run  
4 calculations. But anyone who has worked with the  
5 superintendent on a project knows that that's the  
6 guy who really knows how the project goes together.  
7 We need those people involved in the process of  
8 value engineering, because they can educate us on  
9 how to do a better job in design to facilitate good  
10 construction.

11 John?

12 MR. WOODS: The negative of this is  
13 something that I have seen doing the security work.  
14 My colleague over here from M. C. Dean is a good  
15 example, where they would rather not do the design  
16 because they would rather do the construction. But  
17 you would like to have contractors on a VE team who  
18 have been there, done that and done it. So this to  
19 me is a terrific idea, but the implementation of it  
20 with the conflict of interest potential is not easy.

21 MR. KNOOP: Excellent. This is where we're  
22 getting involved a lot with the Army Corps of  
23 Engineers. The Navy is at the RFP process. The  
24 value engineering teams analyzing the RFPs how you  
25 represent your project to the marketplace. Are you

1 encouraging the best out of the bidders? And we're  
2 seeing a number of responses to that issue. In some  
3 cases, changing from a one-step to a two-step  
4 process, going for a best value process versus a bid  
5 on price process.

6           By looking at the RFP, we can look at  
7 whether we're going to encourage more bidders to the  
8 project, whether the costs are reasonable and  
9 whether there is a large cost risk, the schedule,  
10 the attitude of how we are representing ourselves to  
11 the marketplace. And hopefully that will lead to  
12 change order mitigation, which is something we all,  
13 change order, nobody likes that.

14           Next slide. Now, value engineering, we  
15 often think of it in this context as we're just  
16 looking at some buildings, looking at some designs.  
17 Well actually, industry has looked at management  
18 practices and brought in business managers to  
19 analyze how you do business as a company. Look at  
20 how your funding procedures work, your procurement,  
21 your IT and information exchange, the common  
22 process, reviews, use of the AE, use of the  
23 contractor, internal government communications.  
24 Again, a VE team with the right team member can help  
25 you do business in a more efficient fashion and

1 pursue excellence in a better way.

2           The next slide. Used after you've had a  
3 look at the RFPs, you can have the value engineering  
4 team look at what the response is. And I think  
5 that's very important. We talked earlier about the  
6 two-step process, one qualifying a group of bidders,  
7 phase two, having a smaller group of bidders on a  
8 funded bidding exercise go for a best value type of  
9 approach.

10           In this case, you tell them what the price  
11 is, what the schedule is, what the design parameters  
12 are, and what the program is. And you let them  
13 provide you with a design, that's why it's funded,  
14 that shows the best value response to your bid. The  
15 Navy is using this process and so is the Army Corps  
16 of Engineer and what they're doing I they're taking  
17 a risk element out, the unknown. How will the costs  
18 come in when we bid this thing? Well, fix the  
19 costs. Tell them no more no less. There's no  
20 reward for going less, just stay with the costs and  
21 give me the most for my money. And that's been a  
22 successful program for those two groups.

23           Every project isn't the same. Use of VE  
24 team to analyze what is the best procurement method  
25 for your project. For the SED program, great, it's

1 design-build all the way. But for a renovation  
2 project, for the smaller renovation projects, is  
3 design-build the best method? You need the VE team  
4 to be giving you feedback early in the process to  
5 tell you we advise you to go this way to avoid  
6 unknowns. To avoid change orders, to avoid  
7 bickering in the project. Bickering is not  
8 productive. So look at some of the, look for the VE  
9 team to help advise you on those issues.

10           The VE team, the next slide, can help you  
11 in project programming and prioritization. It helps  
12 establish quality measures and priorities and ways  
13 to measure them. The program for a project is not  
14 just the square foot. It's a living document. It  
15 tells you the rules on how to build your building.  
16 It's setting forth the priorities for a project.  
17 It's not simply square footage. Next slide.

18           Now, we talked about lead and I would say  
19 that the VE team can be a very strong partner to  
20 look for successfully incorporating lead principles  
21 into a project. First of all, we need to fully  
22 adopt that we are doing sustainable buildings. It's  
23 not just a little lead here and a little lead there.  
24 It's actually we're taking on environmental  
25 stewardship and energy stewardship and doing a full

1 lead program for our projects. This will help shape  
2 the market.

3 We can involve people of different  
4 backgrounds. Get the old schools, new school. Get  
5 people from different types of experience to look at  
6 how we make environmentally sustainable buildings  
7 possible. We don't want this just to become a  
8 checklist we go through. We want this to become  
9 sustainable building practices and the VE team  
10 during the creative phase can look at even ways to  
11 encourage things that aren't shown in the design.

12 We've looked at green roofs. This goes  
13 back to your lifecycle costing. We did green roofs  
14 and we were using measures of ten-year payback.  
15 Well, if the building is going to go for 50 years,  
16 100 years, why are we looking at a short payback  
17 period? We should be looking at a payback period  
18 that is reflective of the true lifecycle of that  
19 building. Next slide.

20 Pick the right team for the task. So it's  
21 not just an architect, an engineer. Pick a team to  
22 answer the question that you're looking to have  
23 answered, whether it be a technical review analyzing  
24 your processes, looking at the program level  
25 searching for design excellence. Why should the VE

1 team just think of cost as the true only value  
2 measure that they are striving for? What about  
3 design excellence as being one of those?

4           The contracting methodology and evaluation  
5 of multiple projects to see what the lessons learned  
6 trends are and how we can set new standards to  
7 enforce excellence in your design practices and  
8 construction practices. Next slide.

9           The BIM system, it's really cool. Nice  
10 exotic system. We've been using it at my office for  
11 a couple of projects. A little more difficult than  
12 it looks like on the package. You've got to decide  
13 what you're buying in the BIM system. Use a VE team  
14 to bring computer experts from AutoCAD, MicroStation  
15 and any consultants into the process and have them  
16 analyze how you can use that system correctly and  
17 effectively.

18           It is cool. It is the wave of the future,  
19 but a tool misused can turn into a disaster. Let  
20 the VE team show you how to get the most value out  
21 of that product, out of that process, so that you  
22 can succeed when you're using it. Make sure it  
23 serves you, not you serve the product.

24           Finally, we need to look at, next slide,  
25 how does OBO Incorporated operate in the

1 marketplace? Use the VE team to look at your market  
2 position to advise you on how you can be a stronger  
3 market player, what practices you do in how you  
4 represent projects to the marketplace. We talked  
5 about several things, green buildings. Well, we  
6 need to make sure that the public at large, that the  
7 host countries know that those are green buildings.  
8 We need to let the contracting community know that  
9 we have changed our mode of business, that we are  
10 practicing in a way that they want to be a part of.  
11 And we have to have a VE team with a business  
12 advisor could look at how we do business and what  
13 our role is in the marketplace.

14           John, did you have any additional comments?

15           MR. WOODS: A couple of comments. One,  
16 actually OBO has done value engineering studies of  
17 your management process. I participated on the team  
18 in 1995 with Greg's father, Stuart Knoop, Bill Miner  
19 was involved in it, Fred Koom (ph.). And in that  
20 study, one of the -- there were a number of things  
21 that came out of that. One is the AE guidelines now  
22 are a part of the, are an amendment to the standard  
23 building code. At the time they started, OBO had  
24 100 different design manuals or publications that  
25 they used to design a building. So we talked, at



1 that time, about some recommendations for how better  
2 to use the AE, how better to utilize the personnel  
3 at OBO.

4 Over the years, I have had any number of  
5 people at OBO worry about outsourcing things and  
6 taking, in essence, costing people their jobs. My  
7 sense is OBO has always had to have the people in  
8 place to implement the policy. The contractors and  
9 the AEs are the tools. We don't make the decisions.  
10 The people at OBO have to make those decisions.

11 Relative to how value engineering studies  
12 are done in other agencies, I have had a fair amount  
13 of experience with the Corps of Engineers and they  
14 use the shared savings approach, where the owner and  
15 the contractor split a portion of what they say.

16 Skipping to the BIM, speaking to it from  
17 the ACEC position where 85 percent of our members  
18 are small businesses, Greg referred to it and it is,  
19 it's the gee-whiz thing. We happen to have Revit in  
20 our office. It's not the cost of the software, it's  
21 the cost of the implementation. The amount of  
22 training that goes into it is really quite  
23 unbelievable. There is a major liability issue.

24 David talked this morning about Autodesk  
25 having Inventor. One of the problems has been that

1 the architectural and the structural could not  
2 coordinate very well with the mechanical. The other  
3 issue gets into something where the government  
4 typically owns our documents, but what are you going  
5 to do with the documentation once you have it?  
6 Because we design every project, even if it is an  
7 SED, as a standalone project for a specific site.

8           So we have that concern with the liability.  
9 Those of us that are small businesses, we know, just  
10 like CAD, this is coming. But if the government  
11 really thinks this is a great idea, we actually  
12 think that the government ought to be willing to  
13 step forward and help pay for the implementation of  
14 this.

15           MR. KNOOP: Well, and just to follow on  
16 that. You're going to get a bunch of files on a  
17 bunch of discs. Now, can you use them? You are  
18 also participating in this BIM process. So we need  
19 to make sure that when we take on something new like  
20 that, that we are working together in a partnership  
21 across the industry. And the value engineering  
22 exercise would be perfect to analyze how we can make  
23 that work together and establish a standard,  
24 communication standard, for that in the protocol.

25           GENERAL WILLIAMS: Okay, thank you Kathy

1 and Greg and John.

2 I just wanted to make certain that  
3 everybody had an opportunity to make their  
4 presentation because it's important that this  
5 subject be heard in its collective framework.

6 As you were going through the presentation,  
7 I picked up a few things. And then of course, the  
8 rest of the panel may respond.

9 A standard versus a template in respect to  
10 our said design, I think maybe we might need some  
11 clarification to industry and everything else. If  
12 you are raising this now, what this is and what it  
13 may not be, that can have some indication on how  
14 people will perceive and use it. So that's a do out  
15 we will be getting back to industry on for  
16 clarification.

17 The other one is the threaded throughout  
18 the presentation was the, what I call a balancing  
19 act. Yes, today and for the last six years, our  
20 business has been laced and concerns about security.  
21 And with the tilt of the world today and no  
22 predictable turn, today and probably tomorrow  
23 morning, we still have to be concerned about  
24 security. And then I would say, even after the  
25 world shifts, because of the 20 plus activities

1 other than State that participate in our facilities,  
2 security will never go away. It may have a  
3 different view about it, but we are going to have to  
4 be concerned about security.

5 In our said approach, we have tried to take  
6 advantage of that. First of all, we went from a  
7 corner on Main Street to ten acres of property away.  
8 Sort of balancing and going against the grain of  
9 being close, upfront and close to other activities,  
10 we just simply couldn't plan for the future on Main  
11 Street because Main Street can only accommodate so  
12 much.

13 Have you noticed we have been taking some  
14 creeps to make certain that OBO was not locked into  
15 just the framework around security? We have stepped  
16 out in the sustainable and the environmental world  
17 or trying to go green. That connects to something  
18 else which is totally foreign from security.

19 And you presented some good ideas today  
20 because we want to try to put a spin on it that the  
21 good suggestion that Nancy suggested before lunch,  
22 on this sustainable and environmental piece.

23 We have deliberately in our preambles and  
24 in our way of doing business elected not to call  
25 what we are building an embassy or consulate. Now,

1 I know that might get me in harm's way with things,  
2 but the point is what we're trying to say here that  
3 this is a platform. It's a U.S. government platform  
4 from which the U.S. government can project its  
5 democracy and diplomacy buildings.

6           So the whole idea of saying platform had  
7 some futuristic thing about it because sitting on a  
8 platform is, at the base of the platform is ten  
9 acres and open. And we made some provisions in this  
10 ten acres for expansion, dealing with the future, in  
11 case we wanted to do something further about  
12 openness and diplomacy.

13           And we kind of referred to this ten acres  
14 as a complex. Well, we started this way. A  
15 compound, complex, and you heard Bill Miner, my  
16 chief designer saying campus. So we've gone a long  
17 way from an embassy through a compound, to a complex  
18 to a campus.

19           So I think we're situated pretty good  
20 anyway you look at it for the future, and we can  
21 kind of shift, but I want you to know that I  
22 believe, and I could be wrong, that we are going to  
23 be having to talk about security for a long time.  
24 Maybe not from the context of wars or whatever, but  
25 the fact that we accommodate in our building

1 activities.

2           Okay, that's sort of my response to the  
3 balance. The other one has to do a very good word  
4 attitude. And I would like to hear more about that  
5 because attitude sometime get printed around. So we  
6 want to make certain we know what attitude is about.

7           Then of course the other one you put out is  
8 the most for my money. And I was sitting here  
9 trying to think, how would that work? Most sometime  
10 might come in the eyes of the beholder and when you  
11 start taking about going to Ouagadougou and can't  
12 figure out how to get through Customs, that might  
13 get to be a problem. I understand what you're  
14 saying, but I'm just, I want you to kind of  
15 understand the environment we have to deal with.

16           Now, another excellent idea struck me as  
17 you were going through your presentation and that  
18 was, does the host country really know that we are  
19 interested in more things than just building this  
20 diplomatic facility? I don't know whether it's  
21 sinking in in the fabric like it should. And you  
22 raised a good point. And I'm thinking now about a  
23 task for our people that would say at the initial  
24 planning survey time, that we have a pamphlet. A  
25 little take away that we can hand to the individual

1 in the host country that we are trying to get zoning  
2 from and approval to do things and say look, we want  
3 to come to your country to build a platform to do  
4 these kind of things. And have it all related to  
5 green and this type of thing and deemphasize the  
6 fact that the main purpose is to do an embassy. It  
7 just may be a softer touch and it clearly won't hurt  
8 anything and it won't alter anything, but it might  
9 help us get a pass, go a little quicker. So stay  
10 tuned for the task.

11           Okay, that's what I picked up from the  
12 presentation and we are open now for any other panel  
13 interaction. Yes?

14           UNIDENTIFIED SPEAKER: Just a comment on  
15 the value engineering process and how it has  
16 evolved. I think, in my experience, I have seen a  
17 lot of scrutiny on things that are now, as Suman  
18 said, becoming not a fad anymore, but kind of an  
19 accepted practice of being attacked in a value  
20 engineering process in terms of sustainability and  
21 it's kind of, you know, somebody's signature item on  
22 a project that doesn't need to be there.

23           But I don't know, in oversight you  
24 mentioned that you are mandated to do to the  
25 program, but I don't know if there is oversight on

1 the actual technical elements of what is  
2 accomplished under that.

3 MS. BETHANY: Just for clarification,  
4 you're asking on the technical, what's accomplished  
5 on the VE team --

6 UNIDENTIFIED SPEAKER: Right.

7 MS. BETHANY: -- the fact that they may  
8 attack a sustainable design feature. I provide that  
9 oversight that nothing, you know, all new ideas are  
10 good and we also when we set up the VE study during  
11 the information stage, we're telling them what we're  
12 looking for. And one of the goals is to be a  
13 friendly neighbor, green sustainability. And I  
14 again, I will put on the team a sustainable design  
15 expert, just to make sure that we don't circumvent  
16 the process. And we do look at life cycle. We're  
17 not looking at just initial cost because, as I said  
18 earlier, yes, some of these items, to go green, do  
19 cost us a little more initially. Some of them  
20 don't, but some of them do.

21 Okay, if it's costing us more initially,  
22 the VE team might be able to come up with a way of  
23 doing the photovoltaic for a slightly cheaper way of  
24 doing it. Maybe use a slightly different technology  
25 to get to that, or oh, why didn't you think about



1 wind turbine here because it might work here --

2 UNIDENTIFIED SPEAKER: Sure.

3 MS. BETHANY: -- where you know, we're in  
4 the middle of planning the project. We're trying to  
5 get the project out the door in two to three months  
6 and didn't get a chance to think about that.

7 So bringing in the idea to say wait a  
8 minute, take a step back and throw in a wind  
9 turbine. And it's not just the sustainable, it's  
10 other items.

11 UNIDENTIFIED SPEAKER: That's great.  
12 Getting to that point, something that struck me as  
13 we talked about this, a way to look at the program  
14 in a comprehensive way might be to show savings  
15 through value engineering and invest those into  
16 technologies that do cost more. And in the net sum,  
17 you can show how you have invested dollars saved  
18 into things that are sustainable, which would be a  
19 clever way to communicate.

20 GENERAL WILLIAMS: Excellent. That's an  
21 excellent idea.

22 MS. SORG: Actually, you are going to a  
23 living example of that. But my question is, you  
24 know, especially on the repair and alteration  
25 projects that you are going through, there is a

1 budget.

2 MS. BETHANY: Yes.

3 MS. SORG: And the budget is say twelve  
4 million dollars for Hong Kong, I'm just picking this  
5 out of the sky, but for in that twelve million, post  
6 wants everything done. They want everything that  
7 was wrong for the last whatever ten years that we  
8 looked at that site and fix it.

9 MS. BETHANY: Yes.

10 MS. SORG: So how do you push that, push  
11 these ideas of sustainability. And you know, how do  
12 you really sell that, and you know, I think this is  
13 something again, how do you bring those people on  
14 with you by saying, you know, even though your  
15 toilets are leaking, I think you ought to put window  
16 shades. You know, I mean --

17 MS. BETHANY: Well it gets back to the  
18 definition of the value. It does take a selling  
19 case, especially on the sustainable design. But if  
20 you have the right, what Rick was talking about,  
21 having the right people on the team, that's the hard  
22 part, because you sometimes you might not have the  
23 right person there to help address it.

24 But another critical element isn't just  
25 having the right person on the team when it's an

1 independent team, it's getting the right people in  
2 the room at the beginning of the VE study to frame  
3 what is the project, what are the functional  
4 requirements, what may be things that didn't make it  
5 because the budget was set at a certain limit, and  
6 say well maybe we can move this one up if we give up  
7 this other thing and help to frame the conversation  
8 around what are the values, and bringing in somebody  
9 from the bureau or post that is going to be an end  
10 user.

11           Some of the more successful VE studies had  
12 them come in from post during the IPR or the  
13 integrated planning review to sit in at the VE study  
14 at the beginning, sometimes in the middle, going and  
15 listening to the ideas the VE team was coming up  
16 with, and then at the end to listen to why they came  
17 up with recommendations they did. And the VE team  
18 will, when they develop their idea, they will give  
19 you both pros and cons, what happened, why would you  
20 think about doing it. They are not designing it. I  
21 mean, when you give them a week, they can't do the  
22 design, as you know, but they can come up with the  
23 ideas to help.

24           MS. SORG: On that same track and I think  
25 this is, again, going back to a spin, not a spin so

1 much as looking at the not clearly evident  
2 positives, you know, and so reaching out for the  
3 sort of hidden positives. And perhaps you are  
4 really limiting yourself by calling yourself a value  
5 engineering team. It's more like a holistic look at  
6 a building. You know, because whenever you know, we  
7 think of value engineering, we think about oh,  
8 cheaper ways of doing things.

9 MS. BETHANY: I know. That's a problem  
10 with the industry.

11 MS. SORG: Maybe a name change or sort of,  
12 if your mission is bigger than that, then I think  
13 maybe you might think about --

14 MS. BETHANY: And if I put on my other hat,  
15 you probably saw it on the slide, I am the Executive  
16 Vice President of SAVE International. That is a  
17 topic that I am sure Greg can talk to too. It's the  
18 subject of debate of every meeting of value  
19 engineers. What do we call ourselves?

20 When the law was written, it said value  
21 engineering, but there are some that will call  
22 themselves value analysis, some will call value  
23 management. You know, what do you call what we do?  
24 You're right, it is a holistic review but it is -- I  
25 got very excited when I first took over the job of

1 value engineering when I saw what happened on a  
2 project like yours where it was a renovation,  
3 building a small annex onto one of our embassy  
4 compounds, and the VE team came up with the idea,  
5 why are you doing this? It does not make sense.  
6 For the amount of money you are spending on this  
7 annex that you are putting on, it would make more  
8 sense to build a new building or a new compound,  
9 because you are not solving all the functional  
10 requirements of post. And that project got canceled  
11 and they have since built a new building or new  
12 compound.

13           And so that to me -- you're right. It's a  
14 holistic step back approach, measuring twice,  
15 ability to sit back and say what can we do better?  
16 And I know Greg has comments.

17           MR. KNOOP: It still goes back to the  
18 beginning. I mean, how do you say that we  
19 succeeded? You have to say that we succeeded by  
20 understanding what the mission is and we have to  
21 very early in the process decide what are the  
22 priorities in the mission. Because I think that the  
23 A and E teams and OBO get put in a place where  
24 they've got twelve million dollars to spend and  
25 they're hearing all sorts of, we need this, we need

1 that, we need this, we need that. But what are the  
2 priorities?

3           You just need somebody to facilitate a  
4 communication process between post, OBO, designers  
5 and builders to establish what makes you a winner.  
6 What is the priority of the project? So that there  
7 is no question that when you get through the  
8 process, that no, we prioritize. Window shades were  
9 not a priority element so let's stop wasting money  
10 on that. Toilets were. They are all broken and  
11 we're having them leak on the ambassador's head.  
12 That's not good. So prioritization is a key element  
13 to that, I think.

14           GENERAL WILLIAMS: Okay. Are there -- yes,  
15 Nancy.

16           MS. GOSHOW: I just, I think it's great  
17 that you're doing the VE verification. That's  
18 really fabulous. And I think it will help as you  
19 begin to build a history of what is going on,  
20 particularly in terms of operations and maintenance  
21 of these buildings, which I know is still a very  
22 difficult issue. And I guess you have operations  
23 and maintenance involved from very early on in all  
24 your VE?

25           MS. BETHANY: We try to. I can't say that

1 it is 100 percent, but they are invited and they do.  
2 But every team is different and we do try to have  
3 somebody that understands operations and  
4 maintainability.

5 GENERAL WILLIAMS: Got it. Are there other  
6 comments from the panel?

7 Now, what about attitude? You had it on a  
8 slide up here. What is that?

9 MR. KNOOP: Again, it goes back to how you  
10 represent yourself to the marketplace. For the VE  
11 exercise that we did for the Corps of Engineers, we  
12 were looking at their RFP, we suggested they write a  
13 preamble to the entire RFP to tell the bidding  
14 community what their goals are, what they want to  
15 do, that they are a business entity that is willing  
16 to do business with the bid community in a  
17 progressive way. Tell the customer or tell the  
18 business community how you want to engage them to  
19 succeed together. And you also go to processes like  
20 partnering sessions. I'm not sure if we do that  
21 here at the Department of State, but partnering  
22 sessions is a way to again, just like a design or a  
23 VE workshop at the beginning, it allows you, all the  
24 groups to get together and try to figure out a mode  
25 to succeed together.

1           Build that one thing that you said after  
2 you gave us our four key elements, which was  
3 communication. Bricks and mortar do not build  
4 buildings. People do and people live in them. It's  
5 for people and it's built by people. So the  
6 communication between those people is what is going  
7 to make a successful process. That's attitude.  
8 When the bid community -- you have had --

9           I mean the news has reported that groups  
10 are dropping out, they are not going to bid OBO  
11 projects. The design builders might be afraid.  
12 That's based on attitude. So if they see an  
13 attitude, a willingness to do business in a new  
14 progressive way that you are inviting them as  
15 partners to succeed, they are going to try to  
16 succeed with you and they are going to try to  
17 protect that through the process.

18           GENERAL WILLIAMS: Any other comments from  
19 the panel?

20           (No response.)

21           GENERAL WILLIAMS: Okay, thank you very  
22 much, each of you. And we'll move now to property  
23 acquisitions and disposition, led by Steve and Keith  
24 and Clare and Regan.

25           MR. STOMBER: Yes, good afternoon, sir.



1           GENERAL WILLIAMS: Good afternoon.

2           MR. STOMBER: Good afternoon panel members.

3           The question is, "What is new in property  
4 acquisition and disposition?" And my name is Steve  
5 Stomber. I'm the managing director right now for  
6 real estate. The answer, basically, is nothing.

7           We've done tons of research and we haven't  
8 found too much new. But we can tell you that the  
9 key to real estate has always been location,  
10 location, location. And it still is for the  
11 Department of State in trying to find land for  
12 buildings. And the main thing that does change in  
13 real estate are trends. And I think the most  
14 current trend that I have seen is basically the  
15 problem in the American's subprime mortgage market  
16 has affected the finance market, which has affected  
17 some international real estate circles and prices on  
18 buildings and acquisitions.

19           But I think the best way for us to talk  
20 about what is new in property acquisitions and  
21 disposition is for Mr. Wilkie to tell you what we've  
22 done for accomplishments in the past year. Keith?

23           MR. WILKIE: Thank you. Good afternoon.  
24 Of course, you know that being the real estate guy  
25 coming on in the middle of the afternoon is a little

1 bit like trying to find a site for a new embassy.  
2 You'll never make everybody happy and I'll talk  
3 about that a little bit more.

4           But I basically manage the group of people  
5 that are involved in the buying and the selling and  
6 the leasing of our real estate overseas. That  
7 includes the site acquisition process for new  
8 embassies, which is probably half my workload over  
9 the recent years. But I'll talk a little bit about  
10 our recent results, some of our challenges, and some  
11 of the new things that we have done to address some  
12 of the issues that have developed over recent years.

13           But you can imagine that with about 18,000  
14 properties in nearly 300 cities around the world, we  
15 are in every type of real estate market that you can  
16 imagine. We're working with office properties,  
17 residential properties, warehouse properties, mixed  
18 use properties, buying, selling, leasing,  
19 exchanging, you name it, every day. From  
20 sophisticated markets like London to places like  
21 Mexico City or Bujumbura or Dili, the assignment is  
22 usually the same regardless of the environment that  
23 we're working in, that is try to buy or sell or  
24 lease a piece of real estate. Sophisticated markets  
25 to very secretive closed markets, still the

1 assignment is the same. Every language, every  
2 currency. So, it keeps us busy and a different  
3 challenge every day. And we do that with less than  
4 30 people, somehow.

5            Luckily the bulk of the Department's real  
6 estate transactions are day-to-day leasing of  
7 housing overseas. We have thousands of those and  
8 those are happening all the time out in the  
9 embassies and, luckily, we don't have to get  
10 involved in all of those. Most of those happen  
11 within the embassies authority and shows up in a  
12 database and that's the involvement of OBO real  
13 estate.

14            Where we come in is on every purchase,  
15 every sale, and in major relocations, major lease  
16 transactions, things where we can add value. So  
17 several years ago, we went from a geographically  
18 organized group to focus more on functional areas.  
19 So I have one group that does nothing but sells and  
20 decommissions properties. I have one group that  
21 only works on leasing property, one group that does  
22 nothing but site acquisition, and another one that  
23 busy existing properties like houses or buildings  
24 that we're going to buy, rather than build new.

25            We personally negotiate many of those

1 complex or major high dollar value transactions. We  
2 provide the day-to-day real estate guidance to the  
3 embassies when they just call in and have a question  
4 about the landlord is doing this, what do I do with  
5 my lease, what are my rights? And we get into  
6 dealing with bilateral property rights issues from  
7 time to time when they come up as well.

8           So, just a snapshot today. We're typically  
9 working on about 200 multi-year real estate  
10 transactions in my shop at any given time. And if  
11 you just took a snapshot today of the value of those  
12 real transactions, it's around two billion dollars.  
13 This year so far, fiscal year '07, you can see some  
14 of the stats up there, we've completed, meaning  
15 closed, over 200 sales, purchases, major leases, and  
16 decommissions this year valued at close to a billion  
17 dollars, another almost 50 properties under contract  
18 for sale or to purchase. We've put sites under  
19 contract in 11 cities this year, closed on another  
20 seven. We've put 38 housing properties under  
21 contract to buy, closed on 52 more, sold almost 20  
22 properties, decommissioned over 80 properties, and  
23 completed a number of major lease relocations and  
24 again, with about 25 people.

25           Those nearly 300 completed real estate

1 transactions and new contracts this year are spread  
2 geographically over almost 70 cities, the blue dots.  
3 Okay, we're on the right page. Those are just the  
4 cities where we completed transactions. And we're  
5 working in more than twice that many others just  
6 ongoing negotiations, marketing and that sort of  
7 thing. But it gives you an idea of the market  
8 diversity that we have to deal with and the  
9 political realities that we have to deal with, just  
10 from place to place. But it's just real estate,  
11 right? Which is what everyone says, well, it's just  
12 buying and selling property.

13           Now this is just a little bit of history on  
14 transactions. This data is only properties that  
15 were purchased or sold. It doesn't include all the  
16 leases and other types of transactions. But you can  
17 see since 2001 we've bought or sold almost 400  
18 properties. It's about 1.3 billion dollars worth of  
19 real estate business just there. And again, just  
20 purchases and sales. And if you go back to my  
21 division's inception in about 1991 or 1992, that  
22 number bops up to over 900 completed purchases and  
23 sales. And we've just crossed the two billion  
24 dollar mark in terms of real estate business.

25           So we're doing some things new. And I'm

1 going to specifically address what we're doing new  
2 in these four areas. In terms of sales and  
3 marketing property, there hasn't been a real  
4 widespread distribution of information about what is  
5 for sale, not only in the State Department, but  
6 throughout the U.S. government. So we looked at how  
7 to address that.

8           There are issues with site selection where  
9 we would be way down the road on the process of  
10 acquiring a site and something would happen and we  
11 would lost that site, we'd have to start all over  
12 again or security issues would be discovered very  
13 late in the process that would create difficulties  
14 for us.

15           In terms of site evaluation, we had a very  
16 outdated 20 year old or so scoring tool and we  
17 revamped that. And in terms of site development, we  
18 were finding that some of the sites we were buying  
19 were just not ready to build. And I'll talk about  
20 how we have addressed each one of these issues  
21 briefly.

22           So earlier this year, the government in  
23 general was working on a new public interface for  
24 all property that is for sale by the U.S.  
25 government, meaning confiscated cars to houses and

1 excess real estate. At about the same time, we were  
2 developing in the State Department's website, a page  
3 where people could find information about properties  
4 that we had for sale. The problem with the  
5 govsales.gov site, which is just started in the last  
6 few months, is that it only deals with things in the  
7 United States. The whole website is driven by a map  
8 of the U.S. and you click on the state you're  
9 interested in.

10           And so that website now has a tab, you  
11 can't probably see it on this slide, just a tab that  
12 says international real estate. You click on that  
13 tab and it takes you directly to the U.S. Department  
14 of State's property for sale overseas. It's just  
15 been up for a couple of months. If you haven't seen  
16 it, take a look. We've been averaging over a 150  
17 visits to our website a day. We average ten actual  
18 inquiries a day from that website, actual requests  
19 for information and we've actually documented one  
20 sale so far where the guy found out about the  
21 property on the website, went through the process,  
22 and ended up buying that property. So it has  
23 dramatically increased the exposure that we have for  
24 property we're trying to sell and we typically sell  
25 30, 40, 50 properties a year, give or take.

1           Also, another thing that we're doing in  
2 that regard is a lot of the properties that we  
3 market, the marketing is done through real estate  
4 brokerage firms. And so, in appropriate cases,  
5 we're encouraging those firms also to create  
6 websites within their websites on the properties.  
7 So you can see an example of a property in London  
8 that was put up for sale this year and sold. There  
9 is a very sophisticated website that the developer  
10 put together, as well as normal printed marketing  
11 materials.

12           In terms of site selection, we've made some  
13 improvements over the past year or so. After a  
14 couple of years of buying 10 or 15 sites a year, we  
15 started to see some trends and, as I mentioned  
16 earlier, we'd get a long way down the road and  
17 something would happen to the site that everyone has  
18 fallen in love with, the seller would change his  
19 mind and wouldn't sell to us, we found a fatal legal  
20 defect in the situation, whatever it might have  
21 been. So, it's now standard practice for us to  
22 identify a backup site. So, in every city where we  
23 can, we're actually finding two sites that will work  
24 for the new embassy or consulate and we're putting  
25 them both under contract, so that, just because some



1 of these markets, things aren't transparent at all  
2 and there is no way to discover some of the problems  
3 that are going to pop up later. So it's a bit of an  
4 insurance policy for us. It's more work, but I  
5 think it's paying off in the long run.

6           Now the other issue we were having is once  
7 we identified a lot of properties, we would then  
8 bring in as part of the process a multi-discipline  
9 team that would then evaluate all of the properties  
10 and help select the one that was the best, the  
11 preferable site. And obviously our security people  
12 and experts were involved in that process on that  
13 team. And again, we were finding that too many of  
14 the sites would fall out at that step in the  
15 process. So, we revamped the entire process and now  
16 the standard method of going about this, is to  
17 identify as many sites as we can and bring in those  
18 key people right upfront, screen out any sites that  
19 have, call them, fatal flaws from an operational or  
20 security perspective, and then when we bring in a  
21 full team to evaluate the sites, they are only  
22 evaluating sites that are viable. And it is just a  
23 matter of okay, which is the best one of the ones  
24 that work. And that is paying off as well.

25           Another improvement we made is these teams

1 that would evaluate sites and compare them against  
2 one another and decide which one is best would use a  
3 scoring tool, I call it a scoring tool that was  
4 developed 20 some years ago. We've totally revamped  
5 that tool this past year and added in a lot of  
6 elements that are say more important to us now than  
7 they were 20 years ago, like build to lease, not  
8 build to lease, ready to build attributes,  
9 environmental issues, things like that,  
10 purchasability.

11           You know it used to be when I first started  
12 working here 15 years ago a site would be picked and  
13 then they would say now go buy it. Well, if you  
14 can't buy it, you just picked the wrong site. So  
15 you know, we folded things like that into the  
16 process of selecting which is the best site to buy  
17 because again, if you can't buy it, it doesn't  
18 matter how well it's located or anything else.

19           But anyway, so this tool has eight  
20 categories about almost 350 line items and they're  
21 all positive attributes. And it's a real simple  
22 tool to use. People just go down the list and check  
23 off which ones are there versus not there. And it's  
24 turned out to be a very useful tool for the team to  
25 help them go through their process of picking out a

1 site.

2           This is just a little detail. There are  
3 eight categories, the ability to acquire the site,  
4 planning issues, environmental issues, developmental  
5 issues, operational issues, location, ready to  
6 build, and naturally, security. But that tool rolls  
7 it all up into one graphic and it's very easy for  
8 people to look at and compare site to site and we  
9 also use it to compare, relatively speaking, in a  
10 lot of cases to the existing facility.

11           So you can see the bar on the left side  
12 would be the existing compound and then there are  
13 ten sites and you can look and see that while that a  
14 little top blue color on the left side shows that  
15 there's a good location, but the red spot down there  
16 is very little, very few points in the security  
17 department. Where you look at some of the other  
18 sites and you've got maybe not as great a location,  
19 but you're better off from a development  
20 perspective, security perspective, and all the other  
21 critical elements. And we're using this tool very  
22 early in the stage, as well as through the actual  
23 evaluation process.

24           And the last issue that we have taken  
25 specific action on is the issue of ready to build

1 sites. Our goal for some time now has been to only  
2 buy sites that are ready to build. Unfortunately,  
3 that is virtually impossible in a lot of these  
4 markets. So we try to identify sites and buy sites  
5 that are as close to ready to build as you can get.  
6 And then we specifically address those ready to  
7 build issues with the seller, whenever we can, and  
8 attempt to negotiate as part of the real estate  
9 transaction, the seller developing, not developing,  
10 but providing the site in a ready to build  
11 condition.

12           So these Valletta images, this is just an  
13 example of one case where instead of just an example  
14 of one case where instead of just buying the site  
15 from the seller and then having to demo all the  
16 buildings that were on the property, deal with  
17 unexploded ordinance, and environmental issues, we  
18 built all of that remediation into the real estate  
19 transaction. And so, the seller actually delivered  
20 that site, in this case in Valletta, ready to build,  
21 dealing with all of those issues, taking a lot of  
22 the risk off of our side of the table and off the  
23 design-build contractor's table as well.

24           So, some of the major issues and challenges  
25 that we still have that I haven't found a cure for

1 is this one. This is one example that I mentioned  
2 briefly earlier. My biggest challenge is, and I'll  
3 call it mission impossible. I don't know that I've  
4 said that in front of General Williams before, but  
5 that is basically what it is. If you just think  
6 about it, you want the best location in the capital  
7 city of country, ready to build, low development  
8 costs, and you don't want to have to spend much  
9 money to buy it. Just think about that. Take a  
10 leap for a minute. If you had to go out and buy ten  
11 acres to develop in Washington, D.C. right now, on a  
12 metro stop, on The Mall, and you didn't want to have  
13 to pay much money for it. That's all I do every  
14 day.

15 (Laughter.)

16 MR. WILKIE: And all those other things,  
17 too. But, no, I mean, that's reality. If you go to  
18 London, if you go to Mexico City, it's a little  
19 different depending on the market, but if you go to  
20 even Bujumbura, you know, it's how are you going to  
21 do that? And you to into a capital city like  
22 Madrid, or London, or Mexico City, and how are you  
23 going to do that?

24 And the first reaction you get from  
25 anybody, guaranteed, is you can't do that. Or in

1 some of these less developed countries, it's well,  
2 no one has ever done that before. You know, we've  
3 never sold a piece of property that big to anyone  
4 before. So it's a real challenge. And it keeps us  
5 busy.

6           Just a few of the other challenges are more  
7 related to any other organization that has a  
8 worldwide presence. An unpredictable exchange rate  
9 fluctuations, whether you are buying or selling.  
10 Real estate markets where you can't even determine  
11 who owns a property. There are no for sale signs.  
12 You know, there are things for sale, but how do you  
13 find out what is for sale? There is no website.  
14 There is no real estate broker to go look up.

15           I mean, some of the cities we deal in are  
16 actually, that's the situation. Inconsistent  
17 service providers. We deal with local real estate  
18 professionals, as well as those that are operating  
19 globally and there are a lot of global real estate  
20 firms today that will tell you, they are global in  
21 nature and they provide consistent service. Well, I  
22 can guarantee you that it's a challenge for them to  
23 do that. And just from office to office, looking at  
24 consistency in the way they develop and provide  
25 services is a challenge. And in a lot of the cities

1 we work in, they have to come from another city or  
2 another country to come help us look for property.  
3 But it's an issue that everybody deals with that's  
4 in my business.

5           Inconsistent property rights, there are  
6 some countries you can't own property. You know,  
7 and just political realities, changing world events.  
8 Those are just things that we deal with every day.

9           But luckily, as I said before, we've got a  
10 great team. We have some incredible real estate  
11 people on staff. We have some of the best technical  
12 expertise that you could imagine within OBO to help  
13 work on all of these issues. We've got great staff  
14 at a lot of these embassies that help make this  
15 happen. And despite inconsistencies, a lot of our  
16 services providers are just incredible in terms of  
17 what they can do and they help a lot.

18           But that's an update on what they're doing  
19 and a taste of some of what we deal with every day.

20           GENERAL WILLIAMS: Okay, thank you, Keith.  
21 We're going to move on to Clare and Regan.

22           MS. ARCHER: General Williams, Steve, and  
23 Keith and fellow panel members, on behalf of AGC, I  
24 just want to thank you for allowing us to  
25 participate in the dialogue today. We think it's

1 pretty valuable for us to be here in the room and  
2 appreciate it.

3           While the membership of AGC is largely not  
4 very active in the real estate transaction arena,  
5 particularly internationally, we did reach out to  
6 some of our industry partners from the real estate  
7 arena, some that work with you, some that don't to  
8 see if we could get their assistance in identifying  
9 what is new and what are some of the trends that  
10 they are facing.

11           Basically, we got two responses. One was  
12 kind of along the lines of Steve's nothing new. And  
13 secondarily, it's really a little bit hard to  
14 capture specific trends across such a huge variety  
15 of market places with different regulatory  
16 environments, et cetera.

17           So, Regan and I both shared a great  
18 challenge in trying to identify something meaningful  
19 that was new trend-wise. One thing did pop up from  
20 the public sector domestically that we thought was,  
21 or at least I thought was worth mentioning and  
22 that's created a lot of buzz recently, and that is  
23 the whole move towards enhanced used leases, or  
24 EULs. Particularly out of DoD and Army Corps of  
25 Engineers, it's been a pretty interesting activity



1 in the real estate market that we're seeing.  
2 Basically, a public entity with excess land will,  
3 through a competitive process, find a development  
4 team with whom they will execute a long-term  
5 operating lease, ground lease, and are compensated  
6 through payment in kind, which can come in the form  
7 of new construction, renovations, O and M, a variety  
8 of forms.

9           From the industry side of the house, it's  
10 been pretty interesting. The industry is excited  
11 about it. There's a lot of creativity involved in  
12 it and flexibility and it's pretty interesting.

13           In talking a little bit with Steve and  
14 Keith about it, there are some challenges to  
15 implementing it within OBO. One is, I guess, the  
16 main one is really relative to OMB and scoring of  
17 leases, a capital lease. The requirements of a  
18 capital lease don't really work in an EUL  
19 environment.

20           So, I think from that perspective either  
21 trying to find some relief from OMB relative to that  
22 or looking like the Corps of Engineers does to using  
23 some sort of operating lease to execute an EUL are  
24 probably the two ways to go. But we thought it was  
25 interesting and worth mentioning.

1           Regan?

2           GENERAL WILLIAMS: Thank you.

3           MR. McDONALD: Like Clare, I reached out to  
4 my industry partners, specifically the real estate  
5 entity that services our company that does have a  
6 global reach. And without really -- their question  
7 back to me was be more specific. Be more specific  
8 country-wise or at least regionally for us, because  
9 quite honestly real estate processes are well  
10 established, longstanding, as you alluded to, and  
11 not a fast industry to change, just because of the  
12 traditions.

13           So the local idiosyncrasies really drive,  
14 you know, any revelation that we would have if  
15 something changes in a specific market, opening up  
16 of China and things like that, the influence that  
17 that may have. I think Steve summed it up with his  
18 opening remarks, that there is no sweeping  
19 revelation that I was able to come up with to help  
20 Keith in his monumental challenge that he described  
21 very well.

22           GENERAL WILLIAMS: Thank you. Are there  
23 any questions, comments, or input from the panel?  
24 Yes, John.

25           MR. WOODS: I was interested in Keith's

1 mission impossible about The Mall. And actually,  
2 this is a compliment to the real estate group  
3 because, and I did not see it publicized, but I  
4 thought the acquisition of the I and A building in  
5 Rome, for I believe it was a hundred million  
6 dollars, I thought that was the equivalent of buying  
7 the IRS building on Constitution Avenue. Now, I  
8 think perhaps the ambassador had something to do  
9 with it. I happen to have been over there when  
10 Congress visited and it was very easy to sell them  
11 on why this should be bought. And I also thought it  
12 was a coup that you got security to pay for it and  
13 not something else. I do want to compliment you on  
14 what I perceive to be a mission impossible at that  
15 site.

16 MR. WILKIE: Thank you. That wasn't a  
17 site. It was a building, but it fits in the mission  
18 impossible category, as General Williams would  
19 remember probably.

20 GENERAL WILLIAMS: Right.

21 MR. WILKIE: I personally negotiated that  
22 and it wasn't nearly that expensive, thank goodness,  
23 but it was a unique, one of a kind, you know, you  
24 never get that sort of opportunity to buy a property  
25 like that right next to the embassy that just

1 happens to be the size that you need to consolidate  
2 a lot of people in.

3           GENERAL WILLIAMS: Are there other  
4 comments? Would say this that yes, the acquisition  
5 and the disposal of property and all the rest of the  
6 activities that are in Keith's portfolio is very  
7 challenging. That group sees the host country the  
8 first time. They encounter it for the first time.  
9 And he is not exaggerating when he says there are  
10 many places that they don't even know how to sell  
11 property to someone who is not in that country.

12           But I will say this that he made it sound  
13 very difficult and it is difficult, but he is very  
14 good at it. I have turned him around in the middle  
15 of the night from one location and said get a ticket  
16 and go this way. And he has done very well with it.  
17 The complicated projects he and his team, they have  
18 done a wonderful job. It's a part of our business.  
19 I wish we could make it easier but we have to have  
20 real estate. We have to essentially own every piece  
21 of property that we place these platforms on.

22           And you know, when you look at our  
23 organization from the outside, you know, this is a  
24 part of the education that you can help us with.  
25 This is very tough work. You know, it's not just

1 the war in the two or three locations, but we are  
2 slugging it out every day somewhere in some country  
3 trying to make this happen because it is very  
4 difficult work.

5           So I realize that Clare and Regan were put  
6 in a little awkward situation because you know I  
7 have seen your resumes and I know what you are paid  
8 to do every day. But we thought this would be a  
9 nice little piece of homework to give you to kind of  
10 indoctrinate you to the OBO thing and let you know,  
11 in spite of what somebody may write, it's not a  
12 piece of cake. Okay? It's real difficult work over  
13 here and we have a lot of hard working people trying  
14 to make it happen.

15           But we are getting there. He's ahead. He  
16 didn't say this, I can. He's ahead of what we asked  
17 them to do in terms of teeing up the property. We  
18 have everything purchased we need for FY07. He is  
19 well ahead on FY08. So, it's happening. So to me,  
20 that's new because I knew a time when we would be  
21 scrambling tonight. Right, Keith?

22           MR. WILKIE: Absolutely. I think the  
23 biggest one positive change that affected me more  
24 than anything else with General Williams' leadership  
25 is, you know, 10, 15 years ago, there was no plan.

1 I never knew from day-to-day what I was going to  
2 have to buy the next day or the next year or the  
3 following year. And now there's a long-range plan  
4 that looks out six, seven years in advance, and at  
5 least I have a roadmap of where I can start throwing  
6 darts anywhere, anyway. And that makes all the  
7 difference in the world, in my business.

8           GENERAL WILLIAMS: Okay. Well, what we  
9 want to do now, we have had some very loyal  
10 supporters and interested visitors and you know we  
11 are always delighted to have you come. And while  
12 you are not a member of the panel, we do appreciate  
13 the fact that you are here and we do want to  
14 recognize you and you can tell us what, tell us  
15 about yourself and your organization and if you have  
16 a comment to make about our process, we would  
17 appreciate that as well.

18           MR. SPRAGUE: General, I was wondering if  
19 while the people are introducing themselves, if they  
20 could come up to one of the microphones.

21           GENERAL WILLIAMS: Okay.

22           MR. SPRAGUE: Because, so they can be --  
23 they have a lot of interesting things to tell us --

24           GENERAL WILLIAMS: Right.

25           MR. SPRAGUE: -- and we want to make sure

1 that we get them recorded.

2           GENERAL WILLIAMS: Okay. Let's see how  
3 we're going to do this. Just find a mic and just  
4 step over. That will be fine. So can I start with  
5 you in the corner? Over here, anyone on this side?  
6 Yes. No, no, she belongs to us. If she introduces  
7 herself, I'm going to get up and get out.

8           MR. MADDEN: Hello. My name is Ed Madden.  
9 I'm with Gale Associates. We're a building  
10 envelope, roof design, evaluation consultant  
11 company. We do have an open-end contract with the  
12 State Department and, to date, we've done quite a  
13 few roof evaluations on various embassies and done  
14 some design work.

15           And I just want to say I really appreciate  
16 the opportunity to be here. There was a lot of  
17 great information. I think I was very impressed by  
18 what Nancy had to say and the sustainable design and  
19 that whole sustainable design discussion.

20           In particular, I do really believe that  
21 organizations like the State Department, and the  
22 State Department in particular, do lead the way and  
23 they do set the example, and they do show people  
24 throughout the world what we are all about. And I  
25 think to pursue that is just a wonderful thing. So

1 thank you.

2 GENERAL WILLIAMS: Thank you, very much.

3 Yes, sir?

4 MR. PREZIOSO: Luigi Prezioso with M. C.  
5 Dean. We're a design-build systems contractor. The  
6 one thing I would like to say is I did hear a lot of  
7 references to what other agencies are doing, but  
8 this is probably one of the only agencies that we  
9 have that gets us involved on what they are planning  
10 as such, like the last gentleman said, so we can  
11 kind of understand where you are going before you  
12 get there and then come to us asking for solutions.

13 GENERAL WILLIAMS: Thank you, very much.

14 Yes, sir.

15 MR. CIOTOLI: This is my fifth IAP session  
16 and I've got to tell you, it's been the most  
17 interesting of all that I have attended. And the  
18 reason that it was the most interesting to me is  
19 that there were a lot of synergy of what the topics  
20 are and what your discussions are. And who we are  
21 as a company, using synergy to --

22 My name is Peter Ciotoli and I'm with  
23 Weston Solutions. Some of the synergy, if I may  
24 just give you a few, you mentioned earlier the 50  
25 projects, milestones. This year is our 50th year in



1 the engineering and construction business. We're  
2 also an American company. You mentioned that  
3 earlier, so I thought I would point that out.

4 In a recent ad in The Military Engineer, in  
5 a description of our company for the ten second  
6 elevator speech you talked about, we're defined as  
7 the trusted integrator for sustainable solutions.  
8 So naturally, the sustainability conversations today  
9 were of a great deal of interest.

10 We've been here meeting with Donna and her  
11 staff. We've talked about our modular green roof  
12 systems. We've offered to give tours of some of the  
13 systems, green roofs that we have here nearby, and  
14 we've talked to you about how that could be  
15 implemented for your Agency.

16 We also organize as a green team. And I  
17 really like that chart that Bill and Donna showed  
18 about your green team. And we, as a company,  
19 organize the same way.

20 In the area of property development and  
21 property redevelopment and what Keith was just  
22 discussing, we are involved heavily in enhanced use  
23 leasing. We have been selected on several of them.  
24 We have an active EUL as generating revenue for our  
25 client. We do an exploded ordinance.

1           Finally, we're a pre-qualified general  
2 contractor for OBO for new embassy construction.  
3 So, I'm here basically to help judge for our company  
4 whether what you do as a client and what we do has  
5 any kind of compatibility and, from today's session,  
6 I'm really excited. I think there are a lot of  
7 compatibilities.

8           GENERAL WILLIAMS: Thank you.

9           MR. CIOTOLI: Thank you.

10          GENERAL WILLIAMS: Thank you for your  
11 comments.

12          MR. DOUGLAS: Hi. I'm Mike Douglas with  
13 Bentley Systems. We provide software for the AEC  
14 industry and owner operators, including software  
15 supporting the adoption of BIM methodologies.

16                 Of course, my interest in these meetings,  
17 and this is the latest of several that I have  
18 attended, tends to focus in on the perceptions of  
19 the value of the BIM methodology more so than just  
20 the technology that supports it. And it's also  
21 interesting to hear how BIM fits into the larger  
22 echo system or the ecology of the various  
23 considerations that must come into play here.

24                 One issue that I expect to hear evolve over  
25 time in the context of these meetings is the

1 essential transition of BIM as a methodology that is  
2 applicable in the design engineering and  
3 construction phases through commissioning, to  
4 ultimately transitioning into an authoritative  
5 information source describing the building model in  
6 support of facility configuration management  
7 environment where the real benefits of BIM will play  
8 out for the owner operator through the O and M era.

9 So thank you again.

10 GENERAL WILLIAMS: Thank you.

11 MR. DOUGLAS: I appreciate being here.

12 GENERAL WILLIAMS: Thank you. Yes, sir.

13 You can use the one right in the center there.

14 MR. BLINDS: All right.

15 GENERAL WILLIAMS: Okay.

16 MR. BLINDS: Hi. I'm Steve Blinds. I'm  
17 from EECI. We're a design-build contractor and  
18 we're currently doing on job, which is security  
19 upgrade in Bangkok with OBO now. And we're  
20 interested in getting into the NEC business with  
21 you.

22 GENERAL WILLIAMS: Okay.

23 MR. BLINDS: We have recently submitted a  
24 couple of proposals.

25 GENERAL WILLIAMS: Good.

1           MR. BLINDS:  And it's just my first meeting  
2 here.  I'm pleased to meet all of you.  I just  
3 wanted to see you know, how complex and who all the  
4 players are.  And thank you for inviting me.  It's  
5 good to be here.

6           GENERAL WILLIAMS:  Thank you for being  
7 here.  Yes, sir.

8           MR. PLATT:  Hello, my name is Mark Platt.  
9 I'm with Multistack.  We manufacture modular water  
10 chillers and we listen with interest.  I appreciate  
11 being here, as we try to determine where to put our  
12 limited resources into developing and evaluating new  
13 technology.  I agree with what you said, that you  
14 know, the industry watches what happens here and you  
15 have a lot of influence over the products that are  
16 being developed and the direction people like us who  
17 are manufacturing take.

18           I am very encouraged by the interest in  
19 green technology.  It is a trend that is not going  
20 away.  And so again, we really appreciate being here  
21 and having the opportunity to listen in.  It helps  
22 us be a better partner with the Department of State.

23           GENERAL WILLIAMS:  We're delighted to have  
24 you.

25           MR. PLATT:  Thank you.

1           GENERAL WILLIAMS:  Yes, sir.

2           MR. KENYON:  Hi.  I'm Charlie Kenyon and  
3 I'm also with Multistack.  And with this being our  
4 first meeting, it's been a real pleasure to see the  
5 steps that are being taken and the positive things  
6 that are happening with OBO.  And we're just  
7 thrilled to be here and look forward to attending in  
8 the future.  Thank you.

9           GENERAL WILLIAMS:  Thank you.  Yes, ma'am.

10          MS. KOCI:  Good afternoon.  My name is  
11 Alena Koci and I represent Siemens One, which is our  
12 corporate structure, in this meeting.  I want to say  
13 that the session is extremely valuable for us  
14 industry learning about what you do, what your plan  
15 is and how we can help you, how we can serve you  
16 better.

17                  Siemens is a very valuable contractor for  
18 the Department of State's OBO, providing physical  
19 security on your embassies, as well as other  
20 services.  With our global reach, we can be even  
21 more valuable to you and we hope for a very loyal  
22 partnership in the future.  Thank you.

23          GENERAL WILLIAMS:  Okay, thank you.

24          MR. WALDSCHMIDT:  Good afternoon, I am  
25 Dieter Waldschmidt.  I represent Saelzer Building

1 Security. We provide blast-proof windows and doors  
2 to the State Department and have been here very  
3 often.

4 And General Williams, each time when I am  
5 here, I am picking up some interesting topics. I  
6 remember the old days, I believe when you were  
7 commander in Germany, we did dozens of value  
8 engineering studies and sustainability was an issue.

9 So it's always something interesting. I  
10 like to come back again. Thank you very much.

11 GENERAL WILLIAMS: Thank you very much.  
12 Yes, ma'am. You can get the one on the corner  
13 there, if you don't mind, right here.

14 MS. BYRD: Good afternoon, General  
15 Williams.

16 GENERAL WILLIAMS: Hi.

17 MS. BYRD: Good afternoon. My name is  
18 Renee Byrd with Horne International.

19 This is my second panel. I'm learning a  
20 great deal and I'm happy to participate again. I  
21 just hope that we were able to contribute again to  
22 this wonderful panel.

23 And I want to say congratulations to you  
24 and your staff for the work that you're doing. I  
25 think it's great. I'm fascinated and impressed with

1 it, despite what the papers say.

2 GENERAL WILLIAMS: Thank you.

3 (Laughter.)

4 MS. BYRD: I know it's a tough job. It's a  
5 tough job.

6 (Applause.)

7 MS. BYRD: So, thank you.

8 GENERAL WILLIAMS: Thank you very much.

9 MR. McCORMICK: Good afternoon, my name is  
10 David McCormick with Whitman, Requardt and  
11 Associates, an architectural and engineering firm of  
12 400 and our main office is in Baltimore. And we  
13 have not ever done work with the Department of  
14 State. We've done 90 years of work the federal and  
15 DoD.

16 But through these meetings and the others  
17 that OBO is committed to, to helping me understand  
18 what you do, we had decided that we do want to try  
19 to do some work with you and we look forward to it.

20 GENERAL WILLIAMS: Thank you. Thank you  
21 very much.

22 MR. FLAHARTY: Kevin Flaharty with Johnson  
23 Controls. I think this is my second IAP. And it's  
24 a little more comfortable this trip around than the  
25 first time. I think that things have calmed down a

1 little bit. And I'm pleased to be a supplier of the  
2 OBO.

3           What I took away from today and in the  
4 chiller discussion, with some of the energy rates I  
5 saw on there, 40 cents a kWh and other things that  
6 you are paying overseas in various locations and  
7 self-generating power in many others, I still can't  
8 believe that geothermal doesn't really have a cost  
9 benefit ratio to you. I hope it comes forward  
10 somewhere. Thank you.

11           GENERAL WILLIAMS: Well, I don't think we  
12 said it didn't. It's just we're taking a step at a  
13 time.

14           MR. FLAHARTY: Okay.

15           GENERAL WILLIAMS: Okay, thank you.

16           MR. FLAHARTY: Thank you.

17           GENERAL WILLIAMS: Okay. All right.

18           MR. WASKEY: My name is Roger Waskey from  
19 Accent Architectural. We're suppliers of ornamental  
20 rail systems, any of the ornamental metal works,  
21 green screen systems for green buildings. We have  
22 recently completed nine embassies that we've worked  
23 on.

24           What I found very informative today was the  
25 idea of the value engineering. That's one thing our



1 company stresses. We like to work with the  
2 architects and designers at design stage to help  
3 them. With our expertise, we have a team that only  
4 works on value engineering and we like to help them  
5 with design stage. And I'd just like to thank you  
6 for inviting us here today.

7 GENERAL WILLIAMS: Thank you for coming.  
8 Yes, sir?

9 MR. McDANIEL: Good afternoon. My name is  
10 Brian McDaniel. I'm with American Appraisal, the  
11 world's largest independent asset valuation group.  
12 Thank you very much for inviting us to the meeting  
13 and we look forward to being a part of your team in  
14 the very near future.

15 I thought the discussion about enhanced use  
16 leasing and other creative asset management programs  
17 in the federal government was quite useful, and I  
18 think is a strategy in terms of long-term portfolio  
19 management I'm sure OBO will consider. Thank you  
20 very much.

21 GENERAL WILLIAMS: Yes, sir.

22 MR. SCHWEITZER: Sir, Joe Schweitzer,  
23 President of AICI-SP. This is our second year in  
24 the program. Like my buddy at ECCI, we have a  
25 renovation project going in the Cairo security

1 upgrade. We're very eager to get started on an SED  
2 NEC. We believe this is truly our year.

3 I appreciate coming. This is about my  
4 third or fourth IAP and appreciate the strategic  
5 insight into the program. And it helps us get set  
6 to be able to meet the needs of the program and some  
7 of the great ideas that are generated here. So  
8 thank you.

9 GENERAL WILLIAMS: Thank you for coming.  
10 Thank you. Yes.

11 MR. SMITH: General Williams, panel  
12 members, fellow colleagues, thank you for the  
13 invitation today. My name is T. C. Smith. I'm with  
14 ManTech International. I am a program manager for a  
15 secure supply chain logistics. We can do everything  
16 from procurement to storage. We've got 108,000  
17 square feet of TS cleared storage space right here  
18 in Springfield, Virginia. We are currently  
19 supporting the State Department in program called  
20 GITMP, the Global Information Technology  
21 Modernization Program, where we swap out all the  
22 land, infrastructure in all the embassies every four  
23 years. So we know how to do the process.

24 We're also supporting, for the last two  
25 months, a program called the ACTOA program, the

1 African Contingency Training Operations and  
2 Assistance, where essentially do the logistical end  
3 of the peacekeeper training operations in Africa.

4 I want to thank you for the invitation  
5 today. I really enjoyed the meeting and look  
6 forward to coming again.

7 GENERAL WILLIAMS: Thank you. Yes, sir.

8 MR. KWONG: Hi, I'm Benson Kwong with  
9 Project Management Services, Inc. I am a mechanical  
10 engineer by trade, who also facilitates value  
11 engineering workshops and coordinates sustainable  
12 design. So three of the four subjects today were  
13 very much of interest to me, so I appreciate being  
14 here. Thank you.

15 GENERAL WILLIAMS: Yes, delighted to have  
16 you. Yes, ma'am. Oh, I know. Okay.

17 MR. BANKER: Thank you for having us today.  
18 Will Banker, Surge Suppression, Incorporated. I  
19 appreciate the openness. This is our fourth IAP.  
20 I've been working with the Department of State for  
21 about three and a half, four years now, supplying  
22 electrical surge suppression products. And every  
23 time, I take away just a little bit more.

24 I love the openness with all of the  
25 different industries. It's just -- I love it. It's

1 great. Thank you.

2 GENERAL WILLIAMS: Thank you. Okay, Mary.  
3 You can use that one.

4 MS. ANDERSON: Hi, good afternoon.

5 GENERAL WILLIAMS: Good afternoon.

6 MS. ANDERSON: I'm Mary Anderson and I wear  
7 more than one hat at times. And one of the hats I  
8 wear is the senior vice president for Schnabel  
9 Engineering. We're a geotechnical and environmental  
10 engineering firm involved in the OBO projects on the  
11 planning side, as well as working on some of the  
12 design-build.

13 Our participation in these projects is  
14 challenging, interesting, and we're very, very proud  
15 of it. And we're very proud to be a part of this.

16 Another hat I wear is as the President of  
17 SAME Northern Virginia Post. I want to thank you  
18 for your support of our Post and for the support of  
19 the Society of American Military Engineers.

20 And then finally, a hat that I once wore  
21 that I cherish very much is as a former IAP  
22 panelist. And I have seen with great pride how this  
23 has grown and the information that has been  
24 exchanged. And congratulations panel, it's a great  
25 job.

1           And I also wanted to say to you, General,  
2 and to the OBO staff that 50 projects and 14,000  
3 lives moved is -- congratulations and thank you.

4           GENERAL WILLIAMS: Thank you very much.  
5 Thank you. Yes?

6           MR. ROTH: My name is Steve Roth with Roth  
7 Construction. We're a design-build firm. We're  
8 doing our first overseas project with a foreign  
9 government and we're new at it. This is our first  
10 time at this meeting and we're very happy to be  
11 here. We came with Charles Clements, our CFO to  
12 learn about the process here and we appreciate the  
13 invitation.

14           GENERAL WILLIAMS: Okay. What do you think  
15 about the process?

16           MR. CLEMENTS: Very good. Very  
17 informative.

18           GENERAL WILLIAMS: Thank you. Yes, sir.

19           MR. HARPER: Good afternoon, General --

20           GENERAL WILLIAMS: Good afternoon.

21           MR. HARPER: -- ladies and gentlemen. It's  
22 nice to be back at the IAP again. It's always one  
23 of the best meetings I look forward to each quarter  
24 in attending.

25           I'm Jim Harper with ISES Corporation, a

1 small engineering firm out of the Atlanta area.  
2 Facilities condition analysis is the mainstay of our  
3 work. We are working with a product called FOMP,  
4 Facilities Operations and Maintenance Programming  
5 which would tie into value engineering and  
6 compliment what OBO is presently doing and we hope  
7 to be contracting with you in the near future.

8 GENERAL WILLIAMS: Thank you. Delighted to  
9 have you. Yes.

10 MR. SHIRVINSKI: Good afternoon, General --

11 GENERAL WILLIAMS: Hello. How are you?

12 MR. SHIRVINSKI: -- panel members,  
13 everybody. It's good to see everybody.

14 Great discussion today. I loved the fact,  
15 the transition from YEP to IAP. I've been around  
16 for a few, so I've seen some good transition. BIM,  
17 it's threaded in, commissioning, and now we're into  
18 sustainable design.

19 One note relative to the discussion on the  
20 prepackaging, love that idea. In fact, you might  
21 want to consider the fact that in the commissioning  
22 element, you may be able to eliminate some  
23 commissioning costs by doing the commissioning at  
24 the site in Cincinnati or wherever it may be, as  
25 part of your functional startups and so on and so

1 forth.

2           So again, it was a pleasure seeing  
3 everybody and thanks again.

4           GENERAL WILLIAMS: Thank you for coming.  
5 Yes, sir.

6           MR. STINGLEY: Good afternoon. I'm Pat  
7 Stingley (ph.). I am the enterprise architect from  
8 DS Bureau. And I wanted to learn more about what  
9 OBO does. Our two bureaus are very closely aligned  
10 in providing security to diplomats overseas. And so  
11 I found fascinating things in everything that was  
12 presented today.

13           GENERAL WILLIAMS: Thank you.

14           MR. STINGLEY: So thank you for letting me  
15 come.

16           GENERAL WILLIAMS: Thank you for coming,  
17 sir. Yes?

18           MS. QUEJAS-RISDON: Good afternoon.

19           GENERAL WILLIAMS: Hello.

20           MS. QUEJAS-RISDON: My name is Joyce  
21 Quejas-Risdon. I'm with 3M Company. We're a highly  
22 diversified manufacturing company. We like to think  
23 of ourselves as innovative and we help solve  
24 people's problems and needs. We have provided  
25 solutions. For example, telecom solutions in Iraq

1 to the U.S. Embassy in Iraq and VHB tapes in  
2 Ecuador.

3 I salute the presentation today on their  
4 focus on sustainability and value engineering.  
5 These are two values that 3M believes in and we  
6 welcome a discussion on how to cooperate with you in  
7 achieving these goals.

8 GENERAL WILLIAMS: Thank you.

9 MS. QUEJAS-RISDON: Thank you.

10 MR. BURKE: Good afternoon, General and  
11 staff. I'm Jim Burke. I come from the  
12 infrastructure protection community, representing a  
13 small company called BlastGard. This is, I'm  
14 thinking, my fourth session with you.

15 We have learned a lot about your program  
16 over this period of time. Security still is an  
17 important factor. Unfortunately, the product that  
18 we have is probably not quite ready. It needs to be  
19 characterized. We're working with the Corps of  
20 Engineers in Vicksburg to do that and we'll be here  
21 when you need us. But we think we've got a product  
22 that can ultimately protect some of the facilities  
23 around the world.

24 GENERAL WILLIAMS: Great.

25 MR. BURKE: And it's been my pleasure to be



1 and meet some of your colleagues here today.

2 GENERAL WILLIAMS: When you're ready,  
3 please come speak to us.

4 MR. BURKE: Thank you, sir.

5 GENERAL WILLIAMS: Okay. Next.

6 MS. CONRAD: I'm Suzanne Conrad, and I'm  
7 representing Fultran (ph.) Corporation today. We're  
8 a small business experienced in doing construction  
9 overseas, both construction projects, physical  
10 security, technical security. And I told them that  
11 OBO was the right place to do business and they had  
12 to get involved. So that's why I'm here today.

13 (Laughter.)

14 GENERAL WILLIAMS: Thank you. Good. Good  
15 for you.

16 MR. BROWN: Good afternoon, General, I'm  
17 Bill Brown --

18 GENERAL WILLIAMS: Hi, Bill.

19 MR. BROWN: -- Executive Vice President of  
20 Page Southerland and Page, a designer of a few of  
21 these embassy projects. Another great session.  
22 What can I say? They get better and better.

23 I'd like to make one comment on the HVAC  
24 presentation and that is, that as you palletize  
25 these systems, you might look at ensuring that these

1 can be packaged in the hull of a ship, as opposed to  
2 having to be lashed on the deck of a ship as break  
3 bulk storage. There is a tremendous difference in  
4 shipping costs and if you can get them in the hull  
5 of a ship, tremendous savings there.

6 GENERAL WILLIAMS: Good.

7 MR. BROWN: Thank you.

8 GENERAL WILLIAMS: Thanks for the tip,  
9 Bill.

10 Yes?

11 MR. PERSKY: Good afternoon, General.

12 GENERAL WILLIAMS: Good afternoon.

13 MR. PERSKY: Thank you very much for the  
14 learning opportunity and I thank your staff. My  
15 name is Scott Perky. I work for IBM. And probably  
16 one of the lesser things known about IBM is that we  
17 are the owner of a software product called Maximo,  
18 which is a leader in the maintenance world. And  
19 we're used in your diplomatic security group and A  
20 Bureau and GSA and the Army and NAFAC and a number  
21 of areas throughout the federal government.

22 For me, what was very interesting was some  
23 of the discussion on BIM because we're very  
24 interested, as we live in the O and M world, in  
25 understanding the plans to move, not just from BIM

1 for, you know, architecture and engineering, but  
2 really streamlining that into our world and maybe  
3 not today with you at OBO, but certainly for other  
4 federal customers. And then eventually we do.

5 So a great learning opportunity again, so I  
6 want to thank you and look forward to attending  
7 these in the future and learning more about the BIM  
8 initiative and how we can be a part of it. So thank  
9 you again.

10 GENERAL WILLIAMS: Thank you. Yes.

11 MR. LEE: Good afternoon. I am Wanchul  
12 Lee. Today I represent KlingStubbins.

13 After 34 years of practice, I decide to  
14 change into my third phase of a practice. I have  
15 done 23 years of State Department work and it's very  
16 difficult to change old habits. I've aged with the  
17 embassy building type --

18 (Laughter.)

19 MR. LEE: -- and even into a third phase of  
20 my practice, I still like to represent some large  
21 firms. Now, KlingStubbins has 550 men. And as a  
22 smaller firm, it's always difficult to compete on  
23 these projects, although I managed to do Ouandi  
24 Cameroon Project 2002 program.

25 And it's also interesting to see how the

1 program has changed. We did use air-cooled chiller  
2 in Ouandi project, with a lot of lifecycle costings  
3 and it was very difficult at that time. And also  
4 you provided the modularized prepackaged with top  
5 unit. So they didn't have to screen the site from  
6 the ambassador's window.

7           So, all these changes are really beautiful  
8 to see how not only did we start with the fan coil  
9 unit in the olden days, and VAV and changing, I  
10 think we've made tremendous improvement in building  
11 type.

12           GENERAL WILLIAMS: Do you think we're going  
13 in the right direction?

14           MR. LEE: Absolutely. And not only did the  
15 program, I guess I served, I should say worked with  
16 six probably, over 23 years, six different directors  
17 but your program has been one of the largest  
18 programs that I have worked on. And in a way, I  
19 wish I was able to participate in more SED programs,  
20 but my team member wasn't able to bring me any  
21 design project after the -- so here I am.

22           But KlingStubbins is very much interested  
23 in participating in your program.

24           GENERAL WILLIAMS: Thank you. Thank you so  
25 much for attending.

1 MR. FOWLER: General.

2 GENERAL WILLIAMS: Hi.

3 MR. FOWLER: Hi. Perry Fowler, I'm with  
4 the Associated General Contractors. I've been doing  
5 these for almost three years now.

6 GENERAL WILLIAMS: Very good.

7 MR. FOWLER: It's kind of hard to believe.  
8 This is my last meeting as a bachelor. I'll be  
9 getting married here next week.

10 GENERAL WILLIAMS: Okay.

11 MR. FOWLER: So, I've heard it has a  
12 calming effect.

13 (Laughter.)

14 MR. FOWLER: So, it's very good to be here  
15 and we're very pleased to have Clare representing us  
16 in the IAP. Thank you very much.

17 GENERAL WILLIAMS: We're delighted to have  
18 you, Perry.

19 MR. FOWLER: Thank you.

20 GENERAL WILLIAMS: Okay. I think that  
21 covers it. Okay.

22 Thank you all for your comments. It's  
23 always a part of our process to try to recognize  
24 everyone. I know that many people have been coming  
25 to every one of these. We appreciate that. I

1 appreciate the nice comment from Horne and all the  
2 rest of you.

3           So at this point, we will prepare to close,  
4 after we have had comments, any parting comments  
5 from our panel, starting with your Nancy, and we'll  
6 just go around and come back to the staff.

7           MS. GOSHOW: Thank you so much. I enjoyed  
8 the research that I had to do and I hope I helped.

9           GENERAL WILLIAMS: Thank you. John?

10          MR. WOODS: It's a pleasure to be a part of  
11 this and I appreciate the opportunity. I look  
12 forward to perhaps being useful and not ornamental.

13          (Laughter.)

14          GENERAL WILLIAMS: Thanks, John. Darryl?

15          MR. HORNE: Thanks so much. I enjoyed  
16 being with everybody today. Thank you.

17          GENERAL WILLIAMS: Okay. Greg?

18          MR. KNOOP: Thank you, General. Thank you  
19 OBO panelists and members. This is a unique  
20 opportunity and it is a very progressive thing you  
21 are doing here. So I compliment you on a  
22 progressive program, but also a progressive approach  
23 to listening to the industry and setting your eyes  
24 on the future.

25          GENERAL WILLIAMS: Thank you. Marvin?

1 DR. OEY: Thank you. I look forward to the  
2 next homework assignment. When I saw the HVAC, I  
3 learned a lot speaking with George and Dave about  
4 all the different technologies.

5 I wanted to add, though, with the real  
6 estate real quick, something to think about. I just  
7 learned about a program that has been growing and  
8 it's the Engineers Without Borders. A lot of  
9 pharmaceuticals and chemical companies are  
10 partnering up with this organization to acquire and  
11 get some of the zoning issues that they get in the  
12 area by working with, because a lot of these plants  
13 are in rural areas, working with the villages and  
14 getting their support of these plants. And I'm not  
15 sure if that is something that could help, but it's  
16 an idea that the real estate and planning and  
17 development might want to pursue.

18 GENERAL WILLIAMS: Okay. Thank you very  
19 much. Clare?

20 MS. ARCHER: I appreciate being invited to  
21 participate. I enjoyed my first meeting and I'll  
22 look forward to my next topic --

23 GENERAL WILLIAMS: Okay.

24 MS. ARCHER: -- for December. Thanks.

25 GENERAL WILLIAMS: Thank you. Suman?

1 MS. SORG: General, I heard a word here  
2 that I thought I would like to comment on, just for  
3 a minute. I used to do aerobics to a song called  
4 "Great Attitude." So, great attitude is positive.  
5 What I heard about attitude was a little negative.  
6 I just want to say, you have a great attitude.

7 GENERAL WILLIAMS: Okay.

8 MS. SORG: Okay? And I think the openness,  
9 inclusion that you, that this panel represents, is  
10 part of that attitude. And I'm honored to be part  
11 of that.

12 GENERAL WILLIAMS: Thank you very much.  
13 Regan?

14 MR. McDONALD: As a first panel member, I  
15 hope we passed our test, despite the challenging  
16 questions. But I do appreciate the time that we had  
17 to prepare for it. Assignments came out relatively  
18 earlier than I had been led to believe that they do.  
19 Some of my predecessors, I guess, procrastinated and  
20 crammed for those.

21 But I look forward to working with the  
22 panel, however the assignments fall next. Thank  
23 you.

24 GENERAL WILLIAMS: Okay. Thank you very  
25 much.



1           Our next panel date, we are working on  
2 that, we will get it as soon as possible. Industry  
3 Day, which we have each year, will be on November  
4 8th at the Crystal Gateway and more to come on that.  
5 Michael will be getting information out to our  
6 panel.

7           I want to thank Tim, who has a tough job.  
8 And I will tell you something. I was out at another  
9 agency, and I met your mother.

10           (Laughter.)

11           GENERAL WILLIAMS: And she said -- well,  
12 let me tell you the rest of the story. She told me,  
13 she said this, her son came home talking about  
14 transparency, talking about openness, and all of  
15 this. And I thought this was wonderful that even  
16 sitting trying to capture everything that we have  
17 here, he heard the key words. So thank you very  
18 much.

19           Also, we want to recognize our MSD staff  
20 that helped you with your badges and all. Will you  
21 people stand? Will you stand?

22           (Applause.)

23           GENERAL WILLIAMS: Also, we want to thank  
24 Michael and Andrea and Adelet for their effort in  
25 putting things together. We appreciate that as

1 well. And then we want to thank all of my staff,  
2 those sitting with me, those behind, some have gone,  
3 et cetera. So we appreciate, once again, helping  
4 out with all of this. These things are not easy to  
5 put together, but we thank you.

6           Okay, that's all, until we meet again.

7           (Whereupon, at 3:30 p.m., the proceeding in  
8 the above-entitled matter was closed.)

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C E R T I F I C A T E

This is to certify that the attached  
proceedings in the matter of:

UNITED STATES DEPARTMENT OF STATE

OVERSEAS BUILDING OPERATION

INDUSTRY ADVISORY PANEL

Washington, D.C.

September 20, 2007

were held as herein appears, and that this is the  
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Timothy J. Atkinson, Jr.,

Reporter

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