

1 INDEPENDENT REVIEW PANEL MEETING

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4 VDOT'S TECHNICAL FINDINGS PRESENTATION

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7 DOWNTOWN TUNNEL/MIDTOWN TUNNEL/

8

MARTIN LUTHER KING FREEWAY EXTENSION

9

APRIL 21, 2009

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5:00 P.M. - 6:00 P.M.

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PORTSMOUTH CITY COUNCIL CHAMBERS

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801 CRAWFORD STREET, 6TH FLOOR

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PORTSMOUTH, VIRGINIA

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REPORTING SERVICES PERFORMED BY: SHEILA L. LOWE

**Downtown Tunnel/Midtown Tunnel/MLK Extension Project  
Independent Review Panel (IRP) Meeting No.4  
May 13, 2009, 6:00pm-9:00pm  
Norfolk City Council Chambers, 11<sup>th</sup> Floor  
Panel's Action on April 21, 2009 Meeting Minutes**

Corrections to IRP Meeting No. 2, April 21, 2009 meeting minutes:

- Page 4, Line 11: should read “ are directions, maps” not “ are directions mapped”
- Page 7, Lines 3 and 5: “Alright.” not “All right.
- Page 10, Line 8: “Key Personnel” not “key personnel”
- Page 13, Line 9: “focused” not “focussed”
- Page 15, Lines 3 and 13: “design-build” not “design and build”
- Page 17, Line 7: “innovative” not “innovation”
- Page 17, Line 25: “Bayshore” not “Bay Shore’s”
- Page 18, Lines 1 and 2: “Bayshore” not “Bay Shore’s”
- Page 20, Line 23: “focused” not “focussed”
- Page 22, Line 21: “development processes and design processes” not “development progresses and design progresses”
- Page 32, Line 25: replace “All right. Let’s” with “Alright, let’s ”

1 MR. DICKENS: Good afternoon, ladies and  
2 gentlemen. I'd like to welcome you to this second of five  
3 meetings to consider the conceptual proposal submitted by  
4 Elizabeth River Crossings LLC under the Public-Private  
5 Partnership to finance, develop, design, construct, operate,  
6 and maintain the Downtown Tunnel/Midtown Tunnel/Martin  
7 Luther King Expressway project.

8 I'd like to start the meeting off by  
9 introducing the panel members. I'll start with Alan Witt, a  
10 CTB board member; Cord Sterling, who's also a CTB board  
11 member who was not able to be with us tonight; Michael  
12 Townes, CEO of Hampton Roads Transit; Dwight Farmer,  
13 executive director of Hampton Roads Planning District  
14 Commission; Ann Wright, Portsmouth attorney; Jeff Florin,  
15 deputy director of Virginia Port Authority; Mal Kerley,  
16 chief engineer for VDOT; Rita Busher, CFO for VDOT; Dennis  
17 Heuer, district administrator for the Hampton Roads  
18 District; Mike Robinson, Virginia Modeling and Simulation  
19 Center; and Mr. Ken Chandler, city manager of Portsmouth and  
20 our host.

21 ERC presented its conceptual proposal  
22 before the IRP at our first meeting in these council  
23 chambers on March 25th, 2009. This evening, VDOT will be  
24 presenting to the IRP its technical findings on ERC's  
25 conceptual proposal. Following VDOT's presentation and a

1 short break, the public will have an opportunity to offer  
2 comments. Citizens offering verbal comment must be  
3 registered, and if you haven't done so, Mr. Partridge and I  
4 think there are folks outside who can do that for you.

5           We have two stenographers available for  
6 tonight's public comment session. The first stenographer  
7 will be present in the council chambers and will be  
8 recording the technical presentation by VDOT and your  
9 comments when you come to the podium to speak. If you  
10 prefer not to speak publicly but would like your comments  
11 documented for the record, a second stenographer is  
12 available in the lobby to accept and record your statements.  
13 Alternatively, you may complete one of the comment forms  
14 available at the comment table also located in the lobby.  
15 During the break, the public will have an opportunity to  
16 visit the project information table in the lobby, and VDOT  
17 personnel will be available to discuss specific information  
18 at each one of those tables.

19           Now, before we begin tonight, I'd like  
20 to call on Mr. Partridge to review the contents of our  
21 notebook.

22           MR. PARTRIDGE: Thank you, Mr. Dickens.  
23 What I'd like to do -- good evening, panel members, and good  
24 evening, audience. What I would like to do for the IRP  
25 members is to direct you to your new notebook, Notebook

1 Number 2 this evening, and just go through what's in the  
2 notebook.

3 In your flap side, there's a location  
4 map and a fact sheet. The next sheet you'll find there is  
5 your "Table of Contents". Under Tab Number 1 that reads  
6 "IRP Schedule", you'll find several sheets. The first is  
7 tonight's agenda followed by tomorrow night's agenda. The  
8 next section is the remaining Meetings 3, 4, and 5 schedule.  
9 The next two sections present the directions to our next  
10 facility, which is the city chambers in Norfolk, and these  
11 are directions mapped and parking instructions for the City  
12 Hall South garage.

13 Under the second tab under "Meeting 1  
14 Minutes", you'll find an e-mail submitting those minutes to  
15 you earlier this month and the final transcript of those  
16 meeting minutes followed by an index of those minutes.

17 Under Tab Number 3, it's labeled "IRP Q  
18 & A", there are responses to the Q & A section or session  
19 that was held in Meeting Number 1, and those responses are  
20 from ERC, and an e-mail containing a question that was  
21 raised by one of the members and a response from Hampton  
22 Roads Planning District.

23 Under Tab 4 is VDOT's presentation,  
24 which will be going on tonight, and the last tab represents  
25 the summary of the technical team's finding of ERC's

1 proposal. And with that, that finishes what's in this book  
2 here. Thank you, sir.

3 MR. DICKENS: Thank you, Mr. Partridge.

4 Now, the first order of business is to  
5 approve the minutes of Meeting Number 1, which are provided  
6 in your -- actually, been provided in advance and also in  
7 your notebook. Do I hear a motion for approval of the  
8 minutes?

9 MR. KERLEY: So moved.

10 MR. DICKENS: I have a motion and a  
11 second. Any discussion? All those in favor say "aye";  
12 opposed "nay".

13 PANEL MEMBERS: Aye.

14 MR. DICKENS: The "ayes" have it.  
15 Minutes are approved with minor technical adjustments. With  
16 that complete, I now ask Mr. Kerley, VDOT's chief engineer,  
17 to begin his presentation.

18 Mr. Kerley.

19 MR. KERLEY: Thank you, Mr. Chairman,  
20 members of the panel. As you had indicated, tonight's  
21 presentation will focus on VDOT's principal findings and  
22 conclusions from its evaluation of ERC's conceptual  
23 proposal. VDOT's evaluation was based solely on the  
24 qualification criteria set out in the "Solicitation For  
25 Conceptual Proposal" to determine if ERC is qualified to

1 finance, design, construct, maintain, and operate this  
2 project.

3 The evaluation of ERC's conceptual  
4 proposal was undertaken by VDOT's technical team, which is  
5 composed of staff from relevant disciplines, from the  
6 Engineering and Construction, Planning and Environment,  
7 Operate and Maintenance, and Finance. Representatives of  
8 the directorates for these key disciplines, with the  
9 exception of Finance, which Ms. Busher will handle at our  
10 May 13 meeting, will be presenting to the IRP their  
11 principle findings and conclusions for our consideration.

12 The directorates are as follows: Dusty  
13 Holcombe, the assistant director for the Innovative Project  
14 Delivery Division will start off representing the chief  
15 engineer and Engineering discipline, to be followed by Chris  
16 Collins, project study manager for the Environmental  
17 Division at VDOT representing Rick Walton and the Planning  
18 and Environmental discipline at VDOT; and representing the  
19 Operations and Maintenance discipline on behalf of Connie  
20 Sorrell, chief of systems operations, is Larry Trachy, who's  
21 the operation planning engineer for the Operations Security  
22 Division. After, Dusty then will come back and make some  
23 closing comments, and then I have a couple things to say,  
24 then I'll turn it back to you, Mr. Chairman.

25 Dusty.

1 MR. HOLCOMBE: Thank you, Mr. Kerley.  
2 Good evening, Mr. Chairman and panel members. Let me go to  
3 the first slide, just get right into it. All right.  
4 Hitting the right button helps.

5 All right. The focus of our evaluation  
6 tonight, we'll go into a couple different areas. We're  
7 going to look at the evaluation objectives, which I think  
8 Mr. Kerley just talked about quickly. We're going to look  
9 at the key disciplines that we're going to discuss -- that  
10 are going to make presentations this evening. Then we're  
11 going to go into the principal findings and conclusions of  
12 each of the directorates that make presentations tonight,  
13 then I will come back with a summary of the findings.

14 This is a slide that you saw in the  
15 first IRP meeting at that presentation that was given by  
16 Danielle Kurze. It focuses on the qualifications that the  
17 department is going to be evaluating. These are  
18 qualifications associated with ERC's capabilities, with  
19 their financial standing, with their background and  
20 experience and key personnel, with the approach that they  
21 take in resolving the challenges of this unique project, and  
22 a general understanding of the scope as it is described in  
23 the SFP.

24 Mr. Kerley already told you that the  
25 disciplines that we're going to be talking about tonight are



1 in Engineering, Planning and Environment, Operations and  
2 Maintenance, and, of course, Ms. Busher is going to be  
3 providing you with an update on the financing in our May  
4 13th meeting. The technical team that was identified for  
5 providing this evaluation was made up of representatives in  
6 both the district, Hampton Roads District, and the central  
7 office. Tonight's panel of presenters will discuss the  
8 strengths and weaknesses of the ERC team, focusing on the  
9 priorities that are identified in the "Solicitation For  
10 Proposal". Please note, the strengths and weaknesses  
11 identified by the technical team are found in detail in your  
12 first book from Meeting Number 1, and as Mr. Partridge said,  
13 a summary of those are in today's meeting book.

14 Starting off with the engineering  
15 overview, when we started developing the SFP for this  
16 project, we looked at some unique features that can be found  
17 through the elements of the project. The first one is,  
18 obviously, the tunnel, the Midtown Tunnel, and the  
19 development of the immersed tube tunnel. We identified that  
20 some unique features are associated with this alignment.  
21 The parallel alignment brings some unique challenges  
22 associated with putting a new tunnel next to an existing  
23 tunnel, especially one that's 43 years old. We looked at  
24 coordination that's necessary over the marine environment  
25 that surrounds the tunnel itself and the stakeholders that

1 are part of the maritime industry along the corridor. Our  
2 goal was to find a team with a strong tunnel design and  
3 construction background as part of our evaluation.

4 Under the second bullet, you'll see that  
5 it's "Urban Design and Context Sensitive Solutions". We  
6 know that the neighborhoods, both in Portsmouth and Norfolk,  
7 are going to be affected by the MLK and by the Midtown  
8 Tunnel construction, and we wanted to make sure the team  
9 that we're evaluating is and understands the issues  
10 associated with the impacts to those neighborhoods, whether  
11 it be the industrial community, the commercial community or  
12 residential community in those neighborhoods, including  
13 areas both in Norfolk and Portsmouth historic districts,  
14 Mount Calvary Church and other community stakeholders. They  
15 all need to be thought of as we go through this design and  
16 development for both the Midtown and MLK.

17 The final unique feature that we had  
18 thought about, from an engineering perspective, was the  
19 interface between the multiple disciplines. The scope of  
20 this project is to design, build, finance, operate, and  
21 maintain. Those disciplines have to work together  
22 throughout the development of this project. The people who  
23 are going to be doing the operations and maintenance need to  
24 be talking to the people that are doing the design and  
25 operations so that we have a facility that has a life cycle

1 that lasts the duration of the concession that we're looking  
2 for on this project. So those are some of the unique  
3 features that we saw as we started our evaluation.

4 Each of the presenters tonight are going  
5 to talk about the components of the criteria within each of  
6 the four priorities that you see in the SFP. I want to  
7 start out with Priority 1. The "Project Leaders" criteria  
8 or what we call in there the key personnel is focused on the  
9 direct and relevant experience of the proposer's project  
10 leaders. I focused my evaluation in on the engineering and  
11 design aspect of it.

12 Some of the key positions that we  
13 identified in the proposal were the design manager, the lead  
14 tunnel designer, the tunnel rehabilitation leader, and the  
15 design QA manager. Parsons Brinckerhoff will be the lead  
16 designer as identified in the proposal for this project.  
17 The design manager has over 24 years of experience, and he  
18 has worked locally on the conceptual studies for the third  
19 crossing and the restoration and inspection of the Midtown  
20 Tunnel during its flooding period.

21 The lead tunnel designer has over 42  
22 years of experience. He has international tunnel experience  
23 on the Tuas Bay Tunnel, which is in Singapore. He has  
24 experience in the Western Harbor Tunnel in Hong Kong, and  
25 design of cut and cover installations for the Ted Williams

1 Tunnel in Boston.

2 The tunnel rehabilitation leader has 38  
3 years of experience, and he has worked as a maintenance,  
4 rehabilitation, and facilities management on many of the  
5 tunnels in the Hampton Roads area, including the Midtown  
6 Tunnel and Monitor-Merrimac Tunnel.

7 And finally, the QA/QC manager has 46  
8 years of experience, and his work includes work in the Port  
9 of Miami Tunnel and the access roadways in Florida, and was  
10 deputy project manager for the Central Artery Tunnel up in  
11 Boston.

12 Additionally, from a contractor  
13 perspective, ERC brings a wealth of experience, and as we  
14 know in Bullet Number 1, over 100 years of combined  
15 experience. Their construction manager has over 30 years  
16 experience. As background, has worked on the Fort McHenry  
17 Tunnel in Baltimore, and he was a PM on the Boston Harbor  
18 clean-up project, obviously, in Massachusetts.

19 Their design-build manager has over 20  
20 years experience, has worked on WMATA's Washington Channel  
21 Tunnel and the Fort McHenry Tunnel in Baltimore.

22 And finally, their tunnel construction  
23 manager has over 32 years experience, and he both has worked  
24 on the Fort McHenry Tunnel as an engineer and maintenance  
25 superintendent, and on the Campostella Bridge here in

1 Norfolk.

2                   Some of the weaknesses that we found  
3 were very few associated with their tunnelling team. Design  
4 and construction team was identified to be weak in listing  
5 some of their involvement in environmentally sensitive  
6 projects, and we feel that, obviously, the Midtown Tunnel is  
7 going to be an environmentally sensitive project. We need  
8 to take that into account as part of their experience.

9                   Continuing with Priority 1, the tunnel  
10 construction, VDOT was looking at direct and relevant  
11 experience of the tunnel members related to the construction  
12 of this facility. Some of their identified strengths, ERC  
13 has identified a construction joint venture comprised of  
14 Virginia Beach based Skanska USA Civil, Kiewit Construction  
15 Company, and Weeks Marine, who collectively, have built  
16 nearly 52,000 lineal feet of immersed tube tunnels in the  
17 U.S. Additionally, out of that 52,000, 18,500 feet were  
18 built here in the Hampton Roads area including the second  
19 Hampton Roads Bridge Tunnel and the Chesapeake Bay Tunnel.  
20 The construction joint venture has exhibited a strong  
21 design, construction, and rehabilitation experience, and  
22 their design manager and construction manager have both cut  
23 and cover and immersed tube tunnel design experience.

24                   The technical team from the  
25 construction -- tunnel construction perspective did not

1 identify any significant weaknesses in the team that was  
2 presented. Our conclusion under Priority 1 is that the ERC  
3 team project leaders and the tunnel construction team had  
4 demonstrated that they possess a comprehensive level of  
5 experience in all technical components of the tunnel project  
6 and exhibit a strong track record of success in delivering  
7 high quality projects.

8 For the criteria under Priority 2, we  
9 focussed on the design and construction work history of the  
10 team members and the background and project qualifications  
11 of the individual members of the team. The ERC team members  
12 have designed and constructed urban elevated structures,  
13 such as I-15 in Salt Lake City, I-25 in the Denver region,  
14 and I-125 and I-40 interchange in Albuquerque, New Mexico.  
15 Additionally, team members have designed and constructed the  
16 Pinnars Point connector in Portsmouth and the I-95/Route 1  
17 interchange in Alexandria, Virginia. They have designed and  
18 constructed more than two immersed tube tunnels greater than  
19 4,000 feet, and the Midtown Tunnel is a little over 4,100  
20 feet. For VDOT in both urban and -- excuse me, team members  
21 Volkert and Associates provided the preliminary design for  
22 the MLK and has worked with VDOT in both urban and rural  
23 infrastructure projects.

24 The construction joint venture has  
25 significant experience in the construction of tunnels in

1 navigable waterways, and they have demonstrated combined  
2 design and construction experience on six relevant national  
3 and international projects, four of which involve tunnel  
4 operations here in the U.S. Additionally, the ERC team  
5 members have a safety performance rating that is above  
6 average.

7           Some identified weaknesses that the team  
8 has, out of the projects provided, only two are ongoing. In  
9 other words, a lot of the projects have been done in the  
10 past and over ten years in the past, such as the  
11 Monitor-Merrimac and/or the Midtown Tunnel. So the relevant  
12 experience for existing and working projects is small, but  
13 in the field of tunnels, there aren't a lot of tunnels that  
14 are built in the United States. And additionally, they did  
15 not demonstrate that the members of the design and  
16 construction team have managed design of a Public-Private  
17 Partnership like we have here.

18           The conclusion for Priority 2 is that  
19 the entire ERC team brings a wealth of experience across  
20 multiple disciplines required for the design and  
21 construction of these projects.

22           On to Priority 3. As previously noted,  
23 the project involves an interface between the multiple  
24 disciplines and the design, construction, finance,  
25 maintenance, and operation of the facility. The first

1 criteria focussed on how and when the team members have  
2 worked together on previous projects. Some of the  
3 identified strengths include the design and build team  
4 members have a strong working history of working together  
5 with design lead Parsons Brinckerhoff on major projects of  
6 similar size and scope.

7 Skanska and Kiewit worked on the second  
8 Hampton Roads Bridge Tunnel and the Fort McHenry tunnel in  
9 Baltimore. Skanska, Kiewit, Weeks Marine, and Parsons  
10 Brinckerhoff worked on the Bay Area Rapid Transit tubes in  
11 San Francisco and the 63rd Street Tunnel in New York.  
12 Kiewit and PB have worked on 15 complex traffic projects  
13 including design and build projects such as the Brooklyn  
14 Tunnel in New York and the SR-91 express lanes in  
15 California.

16 Identified weaknesses under the "Prior  
17 Working Relationships" is that the contractors and designers  
18 have a prior working -- excuse me, the contractors and  
19 designers prior working relationships with Macquarie, which  
20 is the financial component of their team, is limited to the  
21 preparation of proposals for the P-3 projects. We didn't  
22 see any specific projects where they have gone into design  
23 and construction with Macquarie as a partner.

24 Under "Performance, Security, Insurance  
25 Coverage", VDOT as learned from previous P-3 projects that



1 no single solution works either for performance security or  
2 for insurance coverage. VDOT has utilized several different  
3 types of securities for PPP projects for Virginia including  
4 parent guarantees, performance and payment bond securities,  
5 and letters of credit. Insurance coverage on several of our  
6 projects includes general liability, environmental and  
7 marine liability, workers' compensation, professional  
8 liability, and umbrella coverage.

9           Some of the identified strengths of ERC  
10 team both of the -- or the construction joint venture have  
11 provided all of these types of security packages on projects  
12 in the past. Skanska has an aggregate surety line of \$6.5  
13 billion and a \$250 million surety line per project.

14 Consistent with Skanska, Kiewit also has an aggregate surety  
15 line of \$6 billion and also \$250 million per project.

16 Insurance packages and coverages identified by ERC team for  
17 previous projects include VDOT's initial requirements that  
18 we put in the SFP, and the final packages will be tailored  
19 specific to the final scope that's decided for the project.  
20 So we feel they are and can provide the insurance and  
21 security necessary.

22           Again, in this area under the priority  
23 for the engineering evaluation, there weren't any  
24 significant weaknesses identified for the ERC team. VDOT  
25 found that the prior working relationships of the

1 construction and design teams and their ability to secure  
2 insurance and performance security packages provided  
3 assurances in the proposer's ability to have the proper  
4 safeguards in place for the design of this complex project.

5 Now, on to Priority 4. This one has  
6 four different criteria, starting with "Innovations". VDOT  
7 solicited innovation ideas in the SFP to try to focus in on  
8 the project objectives. We wanted the teams to come  
9 together, and we knew it's going to be at a conceptual  
10 level, but we wanted the teams to come together to see if  
11 they have any specific innovative ideas that VDOT didn't  
12 think of in the original SFP itself. I was going to focus  
13 in on a couple that were in the conceptual proposal.

14 ERC has identified that the alignment of  
15 the tunnel could be changed from a parallel tunnel to a  
16 curved tunnel so that it moves away from the existing  
17 tunnel. Some of the reasons for this is that the existing  
18 tunnel, obviously, has some age to it and any type of  
19 construction close to the tunnel, they want to try to reduce  
20 any instability that could be caused on the existing tunnel.  
21 So moving it on a curve slightly away from the tunnel will  
22 increase the ability and efficiency of their construction  
23 methods for the dredging and for the new tunnel itself.

24 Another area that they looked at was  
25 using Bay Shores' precasting yard for fabricating the tunnel

1 segments. Bay Shores is owned by Skanska, and to utilize  
2 Bay Shores, which is in the Hampton Roads area, will  
3 increase the efficiency of their construction methods and  
4 reduce the cost of any towing of the segments to the project  
5 location.

6 Some of the weaknesses that we  
7 identified in the innovations area, there was a suggested  
8 alternative ventilation system to promote cost and space  
9 savings and overall efficiency; however, this may inhibit  
10 the long-term bidirectional traffic of the project, though  
11 we will be working closely with ERC, if we are to move  
12 forward with ERC, we will be working closely to identify the  
13 risks associated with a type of ventilation system that  
14 they've identified.

15 Second area on Priority 4 is "Risk  
16 Allocation". The concept of balancing risk allocation is an  
17 important aspect of developing a P-3 project. Risk sharing  
18 is a requirement of our enabling legislation for a PPTA.  
19 Allocation of risk should be to the party that's best able  
20 to manage that risk, whether it be the private sector or  
21 whether it be the public sector. We need to look closely at  
22 the risk matrix that's been developed by both VDOT and the  
23 private sector and identify how we can move forward and  
24 mitigate and reduce the cost of -- overall cost of the  
25 project.

1                   Some of the strengths that we found, ERC  
2 provided a comprehensive evaluation of the risk matrix that  
3 was identified through construction and design stages. Some  
4 of those include the dredging of the facility and moving the  
5 dredging material to Craney Island. We're going to be  
6 working closely as we advance this project with the Corps of  
7 Engineers and Virginia Port Authority to identify if Craney  
8 Island is a location where we can take some of the dredging  
9 instead of sending it out to alternative locations, whether  
10 it be deep sea or other locations along the James River.  
11 That risk has been identified in approximately the \$20  
12 million range. If we can work closely with the proposers to  
13 try to mitigate that risk, we think that would be a viable  
14 solution.

15                   Right of way and utility relocation is  
16 another risk. Again, right of way and utilities may be best  
17 allocated to the department or the public entity because we  
18 have the facilities in place for right of way acquisition  
19 and utility relocation. Again, we would be working with ERC  
20 or the proposers to identify the best group, whether it be  
21 the private or the public entity to move forward with that.

22                   Some of the weaknesses we found in the  
23 risk allocation, they did not prioritize or rank the risk  
24 based on the provided risk analysis. It did not conclude  
25 where the concessionaire will focus its resources on

1 mitigating the risk. Again, since this is a conceptual  
2 proposal, I think something like that would continue to be  
3 worked out as we continue through the procurement itself.

4           The next two areas are "Project  
5 Understanding and Approach" and "Organizational Structure".

6 For project understanding, VDOT requested the offerer's  
7 understanding of the project's complexity, the project's  
8 challenges, and the project's scope, and their answers  
9 identified for VDOT to make a determination, have they  
10 really got it? Do they really understand the scope that we  
11 put out there? Do they have the background and experience  
12 to develop the scope that we want?

13           Some of the strengths that we  
14 identified, that they do have a clear understanding of the  
15 project scope, the tunnel design, and the application of  
16 context sensitive design solutions. Additionally, the QA/QC  
17 plans are detailed enough to provide you with the industry  
18 best practices for both the design and construction phase.  
19 We felt that they provided us some real good information  
20 associated with their QA/QC plan.

21           Some of the weaknesses were that they  
22 failed to show how ERC will successfully carry forward the  
23 public involvement process. They more focussed it on the  
24 history and importance, but not necessarily on the process  
25 that they were going to follow for public involvement. And

1 we feel that public involvement and transparency is an  
2 integral part of this project.

3 And finally, the "Organizational  
4 Structure". VDOT requested the offerers to provide an  
5 organizational structure of its team along with a narrative  
6 of the fundamental relationships that they have. Some of  
7 the strengths that we identified, the construction and  
8 design components of the organizational structure reflected  
9 more than 75 percent of their key personnel. So they put  
10 their key personnel in key parts of their organizational  
11 structure, and we find that that is a good way to make sure  
12 that the project is successful.

13 Additionally, they identified a robust  
14 risk management program as part of their core business  
15 practice; however, the key representative leading this area  
16 was not identified in the organizational structure and that  
17 would be identified as one of my weaknesses on there. Risk  
18 is going to be a significant component of this project,  
19 whether it be the private sector risk or public sector risk,  
20 and we need to make sure that one of their key personnel is  
21 one of the risk managers.

22 With that, I'll pass along to Chris for  
23 the Environmental and Planning section.

24 MR. COLLINS: Thanks, Dusty. I'm going  
25 to be brief. The environmental issues on this project are

1 clearly an important element, but may not rise to the same  
2 level as finance and design, some of the other issues you  
3 hear about as you make your decision.

4 By way of a short history on the project  
5 from an environmental standpoint, NEPA is complete. NEPA is  
6 complete for the Midtown Tunnel. NEPA is also complete for  
7 the Martin Luther King Freeway Extension. NEPA is underway  
8 for the Downtown Tunnel, and the good part about the  
9 Downtown Tunnel NEPA process is because there does not  
10 appear to be any change in the footprint or major  
11 construction, the needed improvements or suggested  
12 improvements are categorically excluded from NEPA, and it's  
13 really an administrative process to get those taken care of.  
14 That should be done rather quickly, which will allow us to  
15 move forward with all the NEPA approvals on the project.  
16 The project is also a concern in the long-range plan with  
17 the MPO from a planning standpoint. That's also taken care  
18 of.

19 Now, from an environmental standpoint,  
20 there are a number of issues that remain incomplete as far  
21 as project development progresses and design progresses that  
22 will need to be handled. They're principally permitting  
23 issues, water quality and natural resource permit issues,  
24 and those will require approvals from multiple agencies as  
25 project development progresses. It's our expectation that

1 those will be handled by the offerer as project work moves  
2 forward instead of by VDOT. Some of those permits you may  
3 be familiar with come from the Department of Environmental  
4 Quality; they come from the Corps of Engineers and other  
5 resource and regulatory agencies. Based on the offerer's  
6 materials, it does appear that they understand the  
7 implications of securing those permits. They put a team  
8 together that has the assets to do that.

9           With that in mind, I'll go through a  
10 number of priority slides. The first priority in the  
11 planning and environmental evaluation is the criteria put  
12 under "The project leaders demonstrate experience in  
13 oversight and administration", and the short answer is they  
14 do. We had a number of findings. The team does appear to  
15 have the assets necessary to obtain the permits and complete  
16 the outstanding environmental requirements. They do  
17 demonstrate experience in dealing with projects, large  
18 projects, in areas that are either environmentally or  
19 historically sensitive, not only the project area here.  
20 Based on that, we have a strong expectation that they have  
21 the resources and the team members that they need to secure  
22 the outstanding approvals.

23           Their "Work History and Project  
24 Qualifications" indicate that they have included design  
25 features to meet the environmental needs of complex projects



1 in the past, and frankly, from an environmental standpoint,  
2 that's probably the most important aspect of this particular  
3 project from here going forward is the environmental issues.  
4 With NEPA done and the project's in a long-range plan, much  
5 of the attention will be focussed on design issues as they  
6 relate to permitting and securing natural resource water  
7 quality permits.

8 So the team's ability to work as a team  
9 and integrate design and environmental issues into a broader  
10 project will be important. They do have experience in that  
11 on a tunnel project in Norway. If you read the materials,  
12 you'll see that. It's a good example of how they dealt with  
13 environmental and safety issues and reducing impact on the  
14 environment in developing the project.

15 We also looked at some of the -- the key  
16 members have experience with regulatory agencies which  
17 should help them secure permits as they move through the  
18 environmental processes.

19 The next slide -- there is no Priority  
20 3. We didn't ask any for environmental experience related  
21 to Priority 3 so I'll skip to Priority 4. There's a rather  
22 long list here, similar to Dusty's slide, "Innovation and  
23 Ideas," "Risk Allocation," "Project Understanding and  
24 Approach," and "Organizational Structure." I'll deal with  
25 those individually.

1                   First, the team appears to have some  
2 innovative ideas for permitting, which was one of the things  
3 we were looking for. Permitting, our expectation is that  
4 permitting will be their responsibility, so any innovation  
5 they can bring to the process will be welcome. In dealing  
6 with the agencies, the ultimate test is whether they can  
7 secure the permits or not, and the way they do that will be  
8 largely up to them. So innovation appears to be there and  
9 it looks like it would be helpful.

10                   "Risk Allocation", it does appear that  
11 the team has an excellent understanding of the outstanding  
12 environmental issues and how they may play a role in  
13 finance, design, construction of the project. It does show  
14 that the risk for permitting will be shared. That's a  
15 potential weakness in our mind. That's something that we  
16 would expect the offerers to handle as the project advances.

17                   The "Organizational Structure" appears  
18 to be there. They have an onsite environmental coordinator  
19 proposed for the project; an innovative idea that's probably  
20 a very good one. It may help to not only secure the  
21 permits, but make sure that the commitments that they make  
22 in these processes are carried out in accordance with those  
23 permits and approvals.

24                   The offerer also has suggested that the  
25 environmental issues may cease at financial close or the

1 department will take over those environmental issues.  
2 That's something we'll want to revisit; a little bit of  
3 concern about that. As a result of some of these permitting  
4 processes, it's typical for environmental monitoring and  
5 implementation commitments to extend beyond that point. So  
6 that's something we have a little bit of concern about.  
7 It's certainly something that's easy to overcome.

8           The offerers also suggested some  
9 potential changes in the project; again, innovative ideas  
10 that may benefit the ultimate outcome. We just need to make  
11 sure we have an understanding that these things can have an  
12 impact on cost and schedule as the project is developed,  
13 although, the two particular ERC suggestions that I see,  
14 moving the tunnel slightly and some work at the Brambleton  
15 interchange, while it will require additional NEPA work, it  
16 doesn't appear to be major time or cost impediments to the  
17 project.

18           With that in mind, it appears that the  
19 team has put together -- that the team they need to secure  
20 the permits, they understand the risks associated with it,  
21 and frankly, it doesn't appear to be any kind of impediment  
22 to subsequent project funding, design or construction.

23           And with that, I'd like to turn it over  
24 to Larry Trachy. He's going to give you a very brief  
25 overview of systems operations.

1 MR. TRACHY: Good evening. I'm Larry  
2 Trachy with the Operations and Security Division. Let me  
3 get my bearings here. In our review of the proposal, we  
4 found four key areas of the project that we'd like to bring  
5 to your attention tonight, the first of which is traffic  
6 operations during construction.

7 This is a big project with a small  
8 amount of area. Project construction will follow VDOT's  
9 guidelines for large scale multiphase, multi-area  
10 construction projects on interstates, which means a lot of  
11 coordination with the surrounding environment. The existing  
12 number of travel lanes will be maintained on I-264,  
13 Brambleton Avenue, and Hampton Boulevard during peak  
14 periods. Portable message signs will be placed in advance  
15 of any construction zones and provide appropriate  
16 information to the travelling public. The number of travel  
17 lanes on I-264 will be maintained; however, the existing  
18 shoulders will sometimes be closed or lane widths will be  
19 reduced to facilitate construction of the adjacent collector  
20 and distributor lanes. Public awareness and motorist  
21 information strategies will be implemented on an ongoing  
22 basis until the project is completed.

23 In the area of open road tolling and  
24 value pricing, Macquarie has the responsibility of the team,  
25 and it's one of the world's largest developers and operators

1 of toll roads with 32 toll highway concessions in 11  
2 countries. If you can make a venture to Northern Virginia,  
3 Dulles Greenway is one of the projects that they own in  
4 Virginia.

5 Due to limited space in this area, the  
6 fully electronic toll system will be used. E-ZPass  
7 transponders, which are very familiar to the travelling  
8 public in Virginia, are planned to be used. The  
9 all-electronic toll collection system will be the very first  
10 in Virginia. It will be maintained on a 24/7 basis.  
11 There'll be a significant marketing outreach for the  
12 military personnel in the area to minimize their experience  
13 with the electronic tolling collection process. Tolls will  
14 be collected at the designated tolling points at the tunnels  
15 and at the MLK extension.

16 From my background, one of the  
17 significant elements of this project is the ITS integration  
18 to the local system. The ERC will connect its traffic  
19 monitoring system to those used by VDOT in the Hampton Roads  
20 area to share information, which is important, rather than  
21 two separate entities. Hopefully, they'll work as one. A  
22 similar theme will be used in the area of incident  
23 management and emergency services response.

24 In recent years, road tunnel fires and  
25 subsequent international research projects have suggested

1 that vehicle fires within tunnels are likely to develop more  
2 rapidly than expected. In light of this, the National Fire  
3 Protection Association updated its provisions in 2008 with  
4 revisions to ventilation systems, structures, to fire  
5 suppression systems, and the importance of this is this  
6 allows the opportunity for the new tunnel, as well as the  
7 existing tunnel, as well as the Downtown Tunnel, to be  
8 upgraded and brought into compliance with fire protection  
9 regulations.

10 Similar to Dusty and Chris, we looked at  
11 the project leaders and the oversight administration  
12 criteria. From an operations and maintenance perspective,  
13 we believe we need some additional discussions with  
14 Macquarie regarding the personnel assigned to the operations  
15 and maintenance responsibilities. We just need more  
16 information, clarification, than what they gave us.

17 From a tunnel perspective, Macquarie's  
18 tunnel operations and maintenance experience includes the  
19 Detroit Windsor Tunnel, the Warnow Tunnel in Germany, two  
20 tunnels, two expressways in South Korea. Macquarie, as I  
21 said previously, is one of the world's largest developers  
22 and operators of highway toll concessions in 11 countries.  
23 U.S. projects include the Chicago Skyway, the Indiana Toll  
24 Road, Dulles Greenway, South Bay Expressway in San Diego.  
25 In conclusion on this issue, it is clear Macquarie has

1 substantial operations and maintenance experience, but  
2 again, we'd like to talk further about their assigned  
3 personnel behind the operations and maintenance  
4 responsibility.

5 "Work History", again, as I said  
6 previously, Macquarie owned the concession, the Detroit  
7 Windsor Tunnel, from 2001 to 2006. There was substantial  
8 investment in the ventilation system, which is similar to  
9 some of the work they'll be doing here. The new system  
10 meets and exceeds all fire suppression standards. Macquarie  
11 owns and operates the concession for the Indiana Toll Road,  
12 which is important because in this project, they  
13 successfully transferred 300 state employees to private  
14 employment on the Indiana Toll Road. Macquarie owns and  
15 operates the concession for the Chicago Skyway, which is a  
16 99-year concession. They have projects in Canada, which is  
17 a 35-year concession includes electronic tolling with both  
18 transponders and video tolling, and a similar project in San  
19 Diego.

20 In conclusion, regarding the  
21 qualifications, they have demonstrated experience as  
22 provided in the conceptual proposal, but again, two areas  
23 that we found lacking is their experience in dealing with  
24 reversible flow tunnels, and it's just simply there are not  
25 that many of them in the country, and the other information

1 regarding the hand-back process. When they finished with  
2 the Detroit Windsor Tunnel project in 2006, obviously, they  
3 handed it off to someone, but the information just wasn't  
4 provided as far as that experience, and that's similar to  
5 what we'll have to deal with somewhere down the road at the  
6 end of this project.

7 "Prior Working Relationships", have the  
8 team members successfully demonstrated prior working  
9 relationships? Members of the ERC team have worked in  
10 numerous projects around the U.S. and in Hampton Roads area.  
11 Macquarie and Kiewit previously worked together on two  
12 projects in British Columbia. Macquarie was the lead  
13 developer and Kiewit was the lead contractor. Macquarie was  
14 the lead developer and Kiewit was a subcontractor on a Texas  
15 project, and Macquarie and Parsons Brinckerhoff worked  
16 together in San Diego with Macquarie being the lead  
17 developer and Parsons Brinckerhoff being the designer.

18 Last, regarding "Innovative Concepts and  
19 Ideas", ERC is prepared and willing to evaluate and hire  
20 VDOT employees most needed and most familiar with the  
21 ongoing operations in the existing tunnels. Current VDOT  
22 organizational structure will likely be used if ERC is  
23 required to assume responsibility for the tunnels  
24 immediately upon notice to proceed with a comprehensive  
25 agreement. Substantial evaluation is ongoing, as previously



1 mentioned, regarding tunnel ventilation systems to meet the  
2 traffic system needs. One of the advantages of a  
3 Public-Private Partnership project is a reliable revenue  
4 stream over the term that can be committed to maintenance.  
5 This allows the private company to take a life cycle view  
6 rather than a capital investment concept.

7 In the area of "Risk Allocation", the  
8 submitted information from ERC was very limited. They  
9 stated that they have the ability to assume major risks in  
10 areas including traffic and revenue, asset operations and  
11 maintenance, and to manage design, construction, and  
12 financing, but that's it.

13 ERC has a clear understanding of the  
14 complexity of the project.

15 Previous work experience of the team in  
16 Hampton Roads area, in my mind, breeds a level of confidence  
17 with the project.

18 Regarding the "Organizational  
19 Structure", we found it lacking in two areas, one of which  
20 Dusty previously mentioned regarding risk management, and  
21 the other was each of the teams has a head in charge of its  
22 area of responsibility, but there is no one single project  
23 manager to go to to resolve issues. And with that, thank  
24 you.

25 MR. HOLCOMBE: All right. Let's wrap

1 this up. We're going to do a summary -- we're going to do a  
2 summary. Is ERC qualified to develop and operate this  
3 project? And I have on the slide and on your booklet,  
4 you'll see that I have the four priorities in a listing.  
5 And the questions are, Does ERC project leaders have the  
6 relevant experience in the oversight and administration of  
7 complex infrastructure projects? Yes, they do.

8 Does ERC team have direct relevant  
9 experience in design, construction, operations, maintenance  
10 of complex tunnel infrastructures including existing and new  
11 facilities? We identified in the evaluation that yes, they  
12 do.

13 Does ERC have direct and relevant  
14 experience in undertaking toll operations for projects of  
15 similar size and complexity? Yes, they do, and while Larry  
16 indicated some weaknesses associated with that component of  
17 it, we'll work through those weaknesses.

18 Under Priority 2, has ERC played a  
19 significant role in similar projects and do the individual  
20 team members have relevant experience on similar projects?  
21 We believe that they do have that experience.

22 Under Priority 3, have ERC members  
23 demonstrated successful prior working relationships? We  
24 believe they have.

25 Does ERC's approach to performance

1 security and insurance coverage in a commercially  
2 appropriate manner? Yes, they do provide it in a  
3 commercially appropriate manner.

4 Under Priority 4, has ERC provided  
5 conceptual innovations that align with the project  
6 objectives to enhance and develop in the operation of this  
7 facility? We believe that they have given us some  
8 innovative ideas, though that aspect of it will blossom as  
9 we go through the process itself.

10 Are ERC's risk strategies appropriate  
11 for this type of project? In general, yes, they are  
12 appropriate for a P-3 project, but there will be continued  
13 discussion, certainly in that arena, as we go along also.

14 Does ERC have an overall understanding  
15 of the project? Yes, we believe that they do have an  
16 overall understanding.

17 Does ERC have an organizational  
18 structure to facilitate and deliver this project  
19 successfully? Yes, I believe that they do. Again, there  
20 are some areas where we're going to talk to them about  
21 organizational structure, but we believe they do.

22 Do they have some weakness? Yes, they  
23 also have some weaknesses. We've identified, through each  
24 of our presenters, of weaknesses in their proposal itself,  
25 but we also believe that we can work with the ERC team to

1 resolve any of those identified weaknesses.

2 VDOT's evaluation of the ERC team across  
3 the three disciplines discussed today finds that,  
4 collectively, the ERC team brings significant strengths to  
5 the development and operation of the project. And with  
6 that, I'll pass it back to Mr. Kerley.

7 MR. KERLEY: Thank you, Dusty.

8 Mr. Chairman, in closing, on behalf of  
9 the staff, from the engineering viewpoint, ERC is well  
10 qualified to move this project forward. However, since I'm  
11 sitting next to our chief financial officer, she always asks  
12 me, Well, they're qualified, but what are we going to have  
13 them build? And looking at the minutes of the last meeting,  
14 on Page 23, there was an issue about affordability issues.  
15 On Page 34, we talked about the higher of two estimates; 35,  
16 preventing scope creep; 35 also said, "Opportunities for  
17 cost savings"; Page 40 we talk about focus on reducing  
18 construction costs, improving the levels of the toll; on  
19 Page 44 it says, "The major cost input is the construction  
20 costs." So the question is, what are we going to have them  
21 build?

22 We have put out -- you also heard at the  
23 last meeting that they are responding to what VDOT put out.  
24 We don't think we put out a Cadillac tunnel. There are  
25 things that we can look at. When I asked Bill Allen the

1 question on how we could lower costs at the last meeting, he  
2 talked about the ventilation system that Larry mentioned.  
3 He talked about the height issue. He talked about the  
4 disposal of dredging material. VDOT is meeting with them  
5 April 23rd. If you look at the questions from our last  
6 meeting on Page 3, responding to a question that we -- "A  
7 definite price can be established once VDOT and ERC have  
8 jointly agreed to the scope and the assumptions related to  
9 the project." We are having a meeting on April 23rd to  
10 address that.

11 One thing that I did want to bring out  
12 from a question Mr. Chandler had at the last meeting had to  
13 do with light rail, and if you look on Page 72 of the  
14 conceptual proposal that was put in, under Section 10.4.4,  
15 you'll see a cross-section of the tunnel that they are  
16 proposing to build. It is not VDOT's intent to have light  
17 rail through the existing tunnel. Basically, it's two  
18 12-foot lanes with 2-foot shoulders. It would be a  
19 combination, from a height viewpoint, and if you look at  
20 their Page Number 54, talking about innovation and ideas,  
21 you'll look down where it says, "16-6 clear height", "In the  
22 event that the tunnels must eventually accommodate light  
23 rail or other intermodal vehicles, the 16-6 provides  
24 sufficient clearance for light rail trains and overhead  
25 electric buses."

1                   If you look at our solicitation, it  
2 states, "The design and construction of the proposed new  
3 Midtown Tunnel shall not preclude the development of future  
4 facilities dedicated to providing multimodal transportation  
5 alternatives. We would be looking and working with private  
6 sector partners to ensure whatever alignment this tunnel is  
7 on would not preclude, in the future, for studies if we were  
8 to put another tunnel to handle light rails or any other  
9 multimodal facility." So I wanted the panel to make sure  
10 that they had seen the cross-sectional view. We will be  
11 working to minimize the scope as much as possible, and with  
12 that, Mr. Chairman, I'll hand it back to you.

13                   MR. DICKENS: Okay. Thank you,  
14 Mr. Kerley and team, for a very informative presentation.  
15 Recognizing that we're two minutes away from break time, I  
16 would ask the panel if there are any quick questions of VDOT  
17 staff that you'd like to ask. Mr. Townes.

18                   MR. TOWNES: Mr. Kerley, as I understand  
19 it, you said that the shoulder width --

20                   MR. DICKENS: Hit your switch.

21                   MR. TOWNES: Okay. I understand that  
22 you said the shoulder width, that there's two 12-foot lanes  
23 and two 2-foot shoulders; is that correct?

24                   MR. KERLEY: That is correct, sir.  
25 That's what's being proposed. It's on Page 73 of Section

1 10.4.4 of the conceptual proposal.

2 MR. TOWNES: So in light of the  
3 conversation we had earlier about the possibility --

4 MR. KERLEY: Correct.

5 MR. TOWNES: -- of some priorities for a  
6 high occupancy vehicle in a shoulder lane or emergency lane,  
7 that's precluded by the current drawings?

8 MR. KERLEY: That's precluded by the  
9 current, and if we were to look at that, I wanted to bring  
10 that up because any enlargement of the footprint that we  
11 have, there's a cost associated with that. So I wanted to  
12 make sure that the panel saw what was being proposed, and  
13 from our conversation, I just found that out after I talked  
14 to you. I wanted to make sure you knew that.

15 MR. TOWNES: Right. As a followup, we  
16 heard earlier about the gentle curving away from the  
17 existing tunnel to prevent any unforeseen damage to the  
18 older facility; however, you said that the RFP requires that  
19 it not conflict with the possibility of a future tunnel.  
20 Could you explain how that geometry might work?

21 MR. KERLEY: Well, I don't know that in  
22 detail, but what we would require of the private sector  
23 partner is to lay that out and show us how that would work  
24 in the future if they did want to shift the alignment.

25 MR. DICKENS: Any others? Okay. And if

1 I may take one minute and repeat some things that I said in  
2 the earlier meeting, this is a critical, critical project to  
3 Hampton Roads, and one that, in my humble opinion, is that  
4 we must have. We must have a project there to move traffic  
5 back and forth between the two sides of the Elizabeth River.  
6 We must be able to do it at an affordable rate. And  
7 keeping -- I trust the other members of the panel agree with  
8 that. Keeping that in mind, we'll go forward with these  
9 discussions.

10 The panel's going to take a 30-minute  
11 break, after which we will open the floor for citizens to  
12 give you the opportunity to make comment. I encourage you,  
13 during the break, to visit the VDOT tables and remind you  
14 that if you wish to address the panel, you do need to sign  
15 up at the comment table in the lobby. I declare a 30-minute  
16 recess.

17  
18 (Whereupon, VDOT's technical findings  
19 presentation having been concluded, the Independent Review  
20 Panel took a 30-minute recess at 6:03 p.m.)  
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C E R T I F I C A T E

COMMONWEALTH OF VIRGINIA

CITY OF PORTSMOUTH, to wit:

I, Sheila L. Lowe, do hereby certify  
that the foregoing pages are a true and correct transcript  
of my Stenotype notes of the public hearing held at the time  
and place in the caption mentioned.

This 5th day of May, 2009.

\_\_\_\_\_  
Sheila L. Lowe  
Notary Public

My term in office expires January 31, 2010.