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STATE OF NEW JERSEY

IN THE MATTER OF: :  
NEW JERSEY CLEAN AIR COUNCIL : TRANSCRIPT  
PUBLIC HEARING : OF  
- - - - - PROCEEDINGS

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL  
PROTECTION  
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Wednesday, April 9, 2008

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1 B E F O R E:

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NEW JERSEY CLEAN AIR COUNCIL

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5 JAMES BLANDO, Chair man

6 MICHAEL EGENTON, Heari ng Offi cer

7 TOBY HANNA

8 JOHN MAXWELL

9 JORGE BERKOWITZ

10 JUNFENG ZHANG

11 JOYCE PAUL

12 KENNETH THOMAN

13 RICHARD LYNCH

14 IRWIN ZONIS

15 LEONARD BIELORY

16 JOHN ELSTON

17 PAM MOUNT

18 FERDOWS ALI

19 JOSEPH CONSTANCE

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1 (The time is approximately 9:30  
2 a.m.)

3 DR. BLANDO: Good morning,  
4 everyone, I'd like to welcome you to the public  
5 hearing. I am James Blando, the current chair  
6 council. Today, the topic of our public hearing  
7 is something that is very important to New  
8 Jersey, as I don't have to tell any of you,  
9 approving our quality at our ports and airports.

10 Before we go any further, I'd like  
11 to introduce our hearing subcommittee chair,  
12 Mike Egenton and he is going to introduce the  
13 council members and give us a little additional  
14 information.

15 Michael, why don't you come up.

16 MR. EGENTON: I was going to do it  
17 here if that is okay.

18 Thank you very much. Again, I'm  
19 the hearing chair for today. My name is Michael  
20 Egenton. I represent the New Jersey State  
21 Chamber of Commerce and this is the annual Clean  
22 Air Council public hearing. With that I am  
23 going to hand it over to the other Council  
24 members for brief introductions

25 DR. BLANDO: As I mentioned, my

1 name is Jim Blando. I am the current Chair of  
2 the Council and I work for the New Jersey  
3 Department of Health and Senior Services.

4 MR. HANNA: My name is Toby Hanna.  
5 I work for Environmental Resources Management  
6 and I represent the New Jersey Society of  
7 Professional Engineers.

8 MR. MAXWELL: My name is John  
9 Maxwell. I'm a public member of the Clean Air  
10 Council. In my spare time I am a lobbyist for  
11 the big oil companies, where we do the Lord's  
12 work.

13 MR. BERKOWITZ: My name is Jorge  
14 Berkowitz. I have the unfortunate situation to  
15 sit next to Mr. Maxwell. I work for Engineer  
16 and Environmental Services. I represent the New  
17 Jersey Business Associations.

18 MR. ZHANG: My name is Jim Zhang,  
19 professor at the School of Public Health,  
20 U. M. D. N. J. Rutgers. I'm representing Health  
21 Offices Association.

22 MS. PAUL: My name is Joyce Paul  
23 and I represent the New Jersey Department of  
24 Community Affairs.

25 MR. LYNCH: I'm Richard Lynch. I

1 work for Environmental Safety Management  
2 Corporation and I am representing the New Jersey  
3 section of the American Hydrogen Association.

4 MR. ZONIS: I am Irwin Zonis. I  
5 am a public member and I'm retired.

6 MR. BIELORY: I'm Leonard Bielory.  
7 I am a public member physician from U.M.D.N.J.,  
8 director of the health and resource center.

9 MR. THOMAN: I am Ken Thoman and I  
10 represent New Jersey State Fellow CIO.

11 MR. CONSTANCE: Good morning, Joe  
12 Constance, New Jersey Commission of Small  
13 Business.

14 MR. ALI: My name is Ferdows Ali,  
15 New Jersey Department of Agriculture, a sinking  
16 ship of the state.

17 MS. MOUNT: I am Pam Mount, I am a  
18 Councilwoman from Lawrence Township and I'm  
19 representing the League of Municipality, but I  
20 am also a farmer and I will make sure that ship  
21 doesn't sink.

22 MR. ELSTON: Last and probably  
23 least, I am a public member. I am John Elston,  
24 public member, thank you.

25 MR. EGENTON: Thank you very much.

1 I'm going to take a moment to recognize an  
2 individual on this Council who I've termed a  
3 statesman. He served on this Council. It is  
4 his fortieth year at the creation of this  
5 Council. I am going to hand it over to our  
6 statesman, Irwin Zonis, for a few remarks about  
7 the history of the Clean Air Council and what we  
8 are all about.

9 Irwin.

10 MR. ZONIS: Thank you very much,  
11 Mike, and good morning all. That's right, I  
12 have been a member of the Clean Air Council  
13 since its first meeting in September of 1968.  
14 Which does seem like a long time ago.

15 The Council was formed by active  
16 legislature in 1967. It was set up as an  
17 advisory body. It replaced the old Air  
18 Pollution Control Commission which is a  
19 regulatory body. The legislature decided  
20 perhaps it was not a good idea for the regulated  
21 community to write the regulations.

22 There was some error in that there  
23 wouldn't be any problems, but there was merit in  
24 the way that air pollution regulation and air  
25 pollution control was becoming more difficult

1 and more sophisticated as the years went by.  
2 The legislature specified the powers and duties  
3 of the Council and as you would expect, many of  
4 them are standard obligations that you would  
5 predict for a group of this nature. The Council  
6 was to request information concerning air  
7 pollution control from the Commissioner of what  
8 was then the Department of Health because in  
9 1967 there was no Department of Environmental  
10 Protection.

11                   The department had to study the  
12 evolution control program and make  
13 recommendations to the Commissioner, study the  
14 codes, rules and regulations. Study and  
15 investigate a term that is very important in the  
16 State of New Jersey, study and investigate the  
17 state of the art and the technical capabilities  
18 and air pollution control and report their  
19 findings and at least hold public hearings at  
20 least once a year in regards to existing air  
21 pollution control statutes, codes, rules and  
22 regulations and upon the state of the art and so  
23 on and report recommendations there onto the  
24 Commissioner.

25                   Council lived up to that



1 obligation and I have a list of the subjects of  
2 the annual public hearings over the decades. In  
3 some cases there were one shot hearings that  
4 were not repeated and in other cases the Council  
5 found reason to meet again and to discuss again  
6 a specific air pollution problem.

7           For example, particulate matter  
8 where the regulations changed and our knowledge  
9 changed. We study particulate matter in an  
10 earlier year and some ten years later came back  
11 and talked about fine particulate matter.

12           One of the subjects on the minds  
13 of the Council and certainly the citizens of New  
14 Jersey and DEP was mobile sources of air  
15 pollution and the Council has specifically had  
16 automobiles and other mobile sources in mind in  
17 a number of public hearings. For example, in  
18 1970 the subject of our hearing was status of  
19 air pollution in mobile sources with  
20 recommendations for further action. 1973, clean  
21 air and transportation alternatives to the  
22 automobile. 1980, ride share and car and van  
23 pooling and later on in this same period,  
24 trucks, buses and car emissions and inspections,  
25 enhanced automobile inspection and maintenance

1 procedures in 1993. 2003, moving transportation  
2 in the right direction and again today obviously  
3 part of our concern about the subject of ports  
4 and airports is mobile sources one more time.

5 So the Council has had some  
6 influence in informing the Commissioner and the  
7 rest of the department and, in fact, the  
8 citizens and the administration of the state in  
9 matters of air pollution control and I think  
10 that anybody that's been closely connected to  
11 the Council would recognize that dedication over  
12 the years. It's been a pleasure for me to be  
13 here for this long period. How much longer it  
14 will last, we shall see in the near future.

15 MR. EGENTON: You are not going  
16 anywhere.

17 MR. ZONIS: But in the meantime,  
18 citizens are invited to attend the monthly  
19 meetings of the Clean Air Council. We meet on  
20 the second Wednesday of the month each month  
21 except for August and you can find out from our  
22 website where the meetings are going to be.  
23 This meeting I think, this annual public hearing  
24 will join the list of those that have  
25 significant impact.

1 I hold here the 2006 public  
2 hearing on indoor air quality and the 2007  
3 public hearing on improving air quality through  
4 energy efficiency and conservation. Copies of  
5 this report are available from the department or  
6 Council itself.

7 Thank you very much.

8 MR. EGENTON: Thank you, Irwin,  
9 and congratulations.

10 I just want to remind everyone too  
11 that we have a number of speakers that are  
12 scheduled to speak today. We have time  
13 allocations set for them. I would ask you if  
14 you're one of those speakers, to be respectful  
15 of your other speakers and try to keep to the  
16 time allocation because we have a number of  
17 people that want to talk to us today so please  
18 keep that in mind.

19 Secondly, I want to let everyone  
20 know, the public know, that the written comment  
21 period is open for another month so you can  
22 provide written comments if you do not have the  
23 ability or the time today to submit those  
24 comments.

25 I also want to just take a moment

1 to offer my thanks and appreciation to the  
2 subcommittee members who helped make this  
3 hearing possible and put the speakers together  
4 today. Obviously, the chairman, Jim Blando,  
5 Toby Hanna, John Maxwell and Jorge Berkowitz.  
6 Obviously, without their work every day, every  
7 week looking into this, we wouldn't have been  
8 able to organize such a meeting today. So I do  
9 appreciate it and also I'd like to give kudos to  
10 the DEP here, to the Commissioner and her fine  
11 staff, particularly Bill Sullivan and Sonja  
12 Evans who keep us on target month after month.  
13 Bill is our liaison to the Council. We  
14 appreciate the guidance that the department  
15 offers to us and just wanted to duly note their  
16 involvement.

17                   With that, I saw the Commissioner  
18 so I think we will get right into it and I will  
19 do very brief introductions although she  
20 probably doesn't need to be introduced by many  
21 of us on the Council.

22                   Commissioner Lisa Jackson leads a  
23 staff of over three thousand professionals  
24 dedicated to protecting, sustaining and  
25 enhancing New Jersey water, air and land and

1 preserving its wealth of nature and historic  
2 resources. Prior to joining DEP, Commissioner  
3 Jackson served for sixteen years with the USEPA  
4 initially at its headquarters in Washington and  
5 more recently at its regional office in New York  
6 City. Commissioner Jackson in addition serves  
7 as the chair of the ozone transport commission  
8 and is vice chair of the environmental council  
9 of the state's compliance committee. She's a  
10 native of New Orleans and the Commissioner  
11 earned her master's degree in chemical  
12 engineering from not only a New Jersey  
13 University, but Princeton University.

14                   With that, please join me in  
15 welcoming Commissioner Lisa Jackson.

16                   MS. JACKSON: Good morning. Thank  
17 you, Mr. Chairman, Mr. Co-Chairman, welcome  
18 Council and thank you for another -- for what I  
19 know will be today another forward thinking and  
20 progressive examination of the topic that's very  
21 important to the health of our state.

22                   I have to start by making two  
23 important announcements related to my agenda.  
24 The first I understand it's Mike's birthday.

25                   MR. EGENTON: Who told you that?

1 MS. JACKSON: I never give up my  
2 sources, but no, it wasn't John Maxwell. It was  
3 a related interest. So let's all join me in  
4 wishing Mike a very happy birthday and thank him  
5 on this day for all the services given.

6 The second very important Mike  
7 Egenton related announcement apparently he is  
8 driving around with a check engine light  
9 flashing on his car.

10 MR. EGENTON: Somebody's giving me  
11 up.

12 MS. JACKSON: Having never been in  
13 said vehicle, all I can say that engine light is  
14 there for a reason, sir, and what we ask you to  
15 do as quickly as possible to take your vehicle  
16 to be serviced.

17 MR. EGENTON: I am in the market  
18 for a Toyota.

19 MS. JACKSON: So are we. Today  
20 you are here to talk about the ports on a more  
21 serious topic so welcome to DEP. Since Jeff is  
22 here and not for you to put on TV at some  
23 department of elimination of parks, but we are  
24 trying to get past that today, but as we work  
25 through very important issues that affect the

1 green side of our department I commend you for  
2 being here today to understand an issue that  
3 affects the other side, the pollution focus side  
4 of our department and that is the ports and  
5 their impact, not only on our economy, but on  
6 the health of residents near and far,  
7 particularly those who live in and around our  
8 ports.

9                   As you all know, New Jersey is the  
10 most densely populated state in the nation and  
11 home to the two of the busiest ports on the  
12 eastern seaboard. If the governor was here, he  
13 would say we'd like to have more and love to  
14 grow in the logistics area which is a merging  
15 and well-developed with developing business for  
16 our state.

17                   So with that backdrop and with the  
18 realization and I think a realistic assumption  
19 that our ports are thriving and will continue to  
20 thrive, your hearing today is especially timely  
21 because it is getting in front of and on top of  
22 an issue that will either through its growth  
23 make environmental progress or contribute to  
24 environmental degradation and I hope it's the  
25 former.

1                   Ports are not without their  
2 potential health impacts and obviously the  
3 health impacts are not simply from the ships  
4 that visit those ports, but the ancillary  
5 services, the so-called logistics business that  
6 grows up in order to support the delivery of  
7 goods and then the reception of goods by those  
8 who are clamoring for them in our area and  
9 beyond. So that means just like the movie  
10 Trains, Planes and Automobiles to a degree, but  
11 certainly trucks if not automobiles and the  
12 economic activities that they generate as well.

13                   As ports grow and as we at the  
14 same time continually work to reduce emissions  
15 from point sources like power plants, like motor  
16 vehicles, like heating oil. Port emissions  
17 will, unless they are addressed, continue to  
18 grow and those we hope will continue to decline  
19 so that means the impact and the percentage of  
20 problems caused by our ports can potentially  
21 increase and that is the trend which we must  
22 first try to stem and then hopefully reverse.

23                   The bigger concern, of course, is  
24 local pollution impacts. We can talk about the  
25 aggregate, but I think the beauty of today's



1 schedule is that you focus on both the aggregate  
2 as well as the local impacts which sometimes  
3 make the aggregate meaningless or at least not  
4 meaningful to the people who are most affected  
5 by an issue.

6                   Let's remember first and foremost  
7 the health impacts that we are here to address.  
8 Fine particulate matter is a problem across many  
9 areas of our state, but the matter associated  
10 with diesel emissions, diesel fuel are  
11 particularly troublesome depending on local  
12 weather conditions. We know that particulates  
13 can stay in a community for long percent of  
14 time. Those emissions are linked to cancer and  
15 premature death and other adverse affects  
16 including visibility effects. Health studies  
17 have shown that there is no clear threshold  
18 below which you don't see impacts when it comes  
19 to diesel emissions.

20                   Based on our national data, air  
21 toxic data, mobile sources in New Jersey are  
22 estimated to contribute two-thirds of the  
23 average cancer risk to the residents of our  
24 state and New Jersey is determined that diesel  
25 emissions result in the greater cancer risk of

1 all air pollution sources in New Jersey.

2 In addition, oxides of nitrogen  
3 from combustion and disproportionately from  
4 diesel also contributes in the forms of ozone.  
5 The Federal Government recently did a minor  
6 lowering of the ozone standard, but whether they  
7 had or not, in our area remains challenged even  
8 at the old standard although we were on course  
9 to meet our ozone standards for 2010. We  
10 certainly won't meet the new standard certainly  
11 without significant action with respect to  
12 diesel.

13 Environmental justice is part of  
14 the agenda today. I touched a little bit on  
15 local impacts, but I think it is important to  
16 know where the ports you are talking about are.  
17 They are in Newark and Camden and those two  
18 areas are clearly environmental justice  
19 communities and communities that are already  
20 overburdened in terms of pollution that they  
21 face. Because of that, they are already  
22 disproportionately impacted by diesel exhaust.

23 Newark is a transportation hub so  
24 we have a port, but we also have an airport and  
25 some train lines that go through, major highway

1 lines as well and Camden has pollution both  
2 within its borders and at its ports.

3                   According to the New Jersey  
4 Environmental Federation in June 2006, it  
5 studied diesel hot spots, a snapshot of Newark,  
6 New Jersey, the County of Essex County around in  
7 which Newark is located as the highest asthma  
8 related mortality rates in the state. A  
9 doubling of rates within minority populations  
10 and furthermore short-term monitoring studies  
11 found that levels of diesel exhaust at parks and  
12 playgrounds along several Newark streets were  
13 two to five times higher than in a similar  
14 residential or quieter residential area in the  
15 same state in our state. At one location an  
16 average of two hundred fifty to three hundred  
17 trucks passed by in an hour. These are the  
18 kinds of impacts that the industry that I hope  
19 you will focus on in your report with respect to  
20 ports.

21                   Regional impacts, we already know  
22 that there is local, but there is also transport  
23 impacts and the cumulative affects of the air  
24 that passes over us. About a third of our  
25 pollution comes from outside of our state, but

1 we are not the end of the line in terms of  
2 transporting it past and so the direct emissions  
3 of particulates can be blown by winds along many  
4 miles that impact New York, Connecticut, Rhode  
5 Island, Massachusetts and beyond. The ports of  
6 Philadelphia, Baltimore and upwind and others  
7 upwind of New Jersey also form our air quality.

8 DEP has taken action and I am  
9 proud of those. That doesn't mean that we can't  
10 take more. We have an incredibly determined and  
11 focused and productive mobile source group and  
12 they have done a lot of work and I think they  
13 look to you to give them additional marching  
14 orders.

15 We have passed a law in this state  
16 that has comprehensive and aggressive statewide  
17 diesel retrofit program. We have a link  
18 outreach program and education campaign and  
19 stringent rules that phase out trucks that have  
20 sleeper births by 2010. We require heavy duty  
21 diesel trucks in our state to undergo an annual  
22 inspection for opacity smoke essentially. We  
23 were the first state in the nation to impose  
24 that requirement. We sponsor demonstration  
25 projects for particular control auxiliary power

1 units and cab heating and cooling systems at  
2 truck stops. The idle air projects come to  
3 mind.

4 Last month many of you know I was  
5 in Washington providing testimony to the senate  
6 environmental public works committee in support  
7 of a bill sponsored by the White House to lower  
8 the sulfur content of fuel used by ocean going  
9 vessels when they get within about twenty miles  
10 of our shore. It is modeled on work that  
11 California has already done and I think I hope  
12 will continue to push forward the aggressive  
13 national and international talks to reduce the  
14 level of sulphur and the oil that is used in  
15 fuels.

16 We have been active in efforts to  
17 reduce NOx, VOCs, particulates and greenhouse  
18 gasses to obtain ozone standards, those on the  
19 implementation has been finalized and rules that  
20 are in that plan are in various stages of  
21 proposal, review and adoption. We have a  
22 regional haze plan and we have a greenhouse  
23 reduction plan that's due out for public comment  
24 within the next several months.

25 So in conclusion, all I say is we

1 have a lot of work to do here today. I thank  
2 you again for taking up this very important  
3 charge. I look forward to the recommendations  
4 that you produce and the strategies that will  
5 come out of the meeting, not because of the  
6 report which is always helpful, but because of  
7 the health impacts and I hope the production  
8 that will result for our citizens.

9 Thank you very much.

10 MR. EGENTON: Thank you very much,  
11 Commissioner, we appreciate your time. We know  
12 you have a busy schedule so thank you very much.

13 Next up I have the privilege of  
14 introducing an individual who I have worked with  
15 over the years in my capacity here in Trenton  
16 and I am also a South Jersey native so I am very  
17 happy he was able to come here today because we  
18 are the New Jersey Clean Air Council. So it is  
19 not just the port in the Newark, Elizabeth, New  
20 York region, but also South Jersey. I'd like to  
21 introduce John Matheussen. He is a fourth term  
22 New Jersey State Senator having represented the  
23 fourth legislative district from 1992 to 2003.  
24 On April 1st, 2003 he assumed the position of  
25 Chief Executive Officer of the Delaware River

1 Port Authority and president of PATCO. Some of  
2 his board service includes being co-founder and  
3 member of the board of home port alliance for  
4 the USS New Jersey and I might add that Senator  
5 Matheussen was a defining voice for South Jersey  
6 and advocated for Battleship New Jersey to be  
7 brought to the Camden/Philadelphia area. I  
8 encourage the Council and all present here today  
9 to make that trip to that historic landmark.

10 Senator.

11 MR. MATHEUSSEN: Thanks for that  
12 plug, Mr. Chairman, very much. Let me not pass  
13 the moment without saying happy birthday. All  
14 these years and I didn't know your birthday.  
15 Not bad for, what, twenty-seven.

16 MR. EGENTON: About that.

17 MR. MATHEUSSEN: First of all, I'd  
18 like to thank obviously the Council for this  
19 invitation here today. I'm privileged, I am  
20 honored to be here and certainly hope that the  
21 small words that I have for you today will make  
22 some impact on the various decisions that you  
23 have to make going into the future.

24 I'd also like to thank the members  
25 of the Council for your dedication and hard work

1 in working with the New Jersey Department of  
2 Environmental Protection on issues of great  
3 importance to this state and obviously to the  
4 region as the Commissioner so explained. I  
5 would also like to acknowledge Commissioner  
6 Jackson for her fine work and her staff, the  
7 expertise that they have brought to this state,  
8 the stewardship of our state's natural resources  
9 and well-being of our residents.

10 The DRPA is a bi-state  
11 transportation authority. We operate four  
12 bridges that cross the Delaware River, the Ben  
13 Franklin, the Walt Whitman, the Commodore Barry  
14 and Betty Ross Bridge, as well as 14.2 mile  
15 PATCO Rail Line from Lindenwold, New Jersey to  
16 Center City Philadelphia. In addition, the DRPA  
17 owns and operates the Philadelphia Cruise  
18 Terminal as well as the RiverLink Ferry.

19 DRPA has a long-standing  
20 commitment to clean air, clean water and  
21 sustainable development. Each capital project  
22 conducted at DRPA and PATCO undergoes an  
23 environmental review and is designed to the  
24 highest environmental standards. We are always  
25 looking to identify opportunities to improve our



1 impact on the environment.

2                   Our Ben Franklin Bridge de-leading  
3 and repainting project is one of such example.  
4 In its final phase now, at the onset, this  
5 project presented numerous environmental  
6 challenges. It had more than twenty-seven coats  
7 of lead paint, crosses a major waterway, the  
8 Delaware River, traverses several major roads  
9 and highways, involves two cities and two  
10 states, carries in excess of one hundred  
11 thousand vehicles a day and two active train  
12 tracks, the PATCO rail line, and passes within  
13 feet of peoples' bedroom windows.

14                   When we began the project, we  
15 involved stakeholder environmental agencies,  
16 elected officials, municipal agencies, resident  
17 groups and special interest groups and made them  
18 a partner in this project. We kept them  
19 apprised every step of the way and demonstrated  
20 how we intended to protect their interests, the  
21 environment and the health of their neighbors.  
22 I am proud to say that we will, in the next year  
23 or so, finish this five phase, ninety million  
24 dollar de-leading and restoration project with  
25 no major environmental infractions and with few

1 concerns expressed from our neighbors.

2                   Helping us achieve this high level  
3 of sensitivity to environmental issues is our  
4 in-house environmental coordinator, familiar  
5 with environmental regulations in New Jersey and  
6 Pennsylvania to ensure compliance with  
7 regulatory requirements. We also maintain  
8 updated response plans and provide training for  
9 staff members responsible for responding to  
10 environmental incidents that may occur, as an  
11 example of the tasks we routinely undertake as  
12 part of our commitment toward a clean  
13 environment.

14                   DRPA has been investing in  
15 environmental friendly technologies and  
16 processes since its inception. Other examples  
17 of recent and past investments and processes  
18 include our PATCO train line began operations on  
19 February 15, 1969, with the first trip from  
20 Lindenwold, New Jersey to Center City  
21 Philadelphia. Back then, the 14.2 mile line  
22 carried twenty-one thousand two hundred people  
23 per day. As the cost of a gallon of gasoline in  
24 the region hits three dollars or more, many more  
25 drivers are escaping the pain at the pump by

1 riding PATCO. Today, PATCO daily ridership is  
2 averaging around thirty-five thousand  
3 passengers, up close to seven percent over last  
4 year, getting them to work, school, sporting  
5 events, shopping and anywhere else they need to  
6 go quickly, easily and in an environmentally  
7 friendly way.

8 PATCO is one of the regions  
9 primary mass transit providers, helps reduce air  
10 pollution and traffic congestion in South Jersey  
11 and Philadelphia by removing more than twelve  
12 thousand five hundred cars from the roadways  
13 each day. Recent studies sponsored by the  
14 American Public Transportation Association show  
15 that public transportation reduces natural  
16 carbon dioxide emissions by approximately  
17 seven million metric tons annually by getting  
18 people out of their cars and into buses and  
19 trains for work and recreational transportation.

20 For example, a solo commuter  
21 switching his or her commute to existing public  
22 transportation in a single day can reduce their  
23 CO2 emissions by twenty pounds daily or more  
24 than forty-eight hundred pounds in a year. If  
25 we do the math, PATCO reduces regional CO2

1 emissions by approximately fifty-five  
2 million pounds per year by taking twelve  
3 thousand five hundred cars off the road.  
4 Further expansion of rapid transit in the region  
5 will increase these benefits.

6                   The recent introduction of the  
7 PATCO Freedom Smart Card is a service  
8 enhancement that our riders are very happy with.  
9 A tiny computer chip makes this credit card  
10 sized, stored value smart card a big help to our  
11 frequent PATCO riders. To enter and exit the  
12 system, riders just wave the card near a sensor  
13 located on each turnstile. Efficient,  
14 contactless and modern. Plus it can be  
15 automatically refilled just like E-Z Pass. Our  
16 Freedom Card has been designed using the  
17 National Fare Collection Standard which means we  
18 have taken the first step toward developing a  
19 regional transit fare card that will facilitate  
20 transfer among transit systems when our regional  
21 transit partners implement similar systems.  
22 Another incentive for increased mass transit  
23 ridership, helping the environment.

24                   Speaking of E-Z Pass, the DRPA  
25 introduced E-Z Pass on our facilities in 1999.

1 E-Z Pass can process two hundred fifty to three  
2 hundred percent more vehicles per lane, thus  
3 reducing the toll plaza delays and traffic  
4 congestion. Less congestion leads to reduced  
5 auto emissions and fuel consumption. Before  
6 that, in 1992, in conjunction with the other  
7 Delaware River Bridge agencies, we had  
8 implemented one way tolls on all of our bridges  
9 which eliminated the need to stop to pay tolls  
10 in the eastbound direction. Both green ideas.

11 In addition, DRPA implemented  
12 movable barriers on three of our bridges several  
13 years ago to reduce bridge congestion at peak  
14 times. A more efficient travel system, we make  
15 better use of existing lanes making quicker  
16 trips for travelers.

17 Not only is it DRPA's goal to make  
18 travel on our facilities more environmentally  
19 friendly, we are always looking for ways to  
20 upgrade and maintain our facilities with as  
21 little impact as possible. For example, we  
22 undertake an off-hours construction schedule  
23 whenever possible. Off-hours construction  
24 reduces travel delays and the associated  
25 congestion and the pollution caused by idling

1 cars. We have converted to the use of low  
2 sulphur diesel fuel for our construction and  
3 maintenance equipment, to reduce the impact of  
4 our operations on our air quality. Plus we are  
5 in the process of implementing a pilot program  
6 to convert a portion of our fleet to natural gas  
7 powered vehicles.

8                   But at DRPA we are not content to  
9 rest on the past. We are still innovating  
10 looking at the following cutting edge projects  
11 and technologies to further improve our  
12 reliability, value and service to the commuting  
13 public. Future short-term investments and  
14 processes include a traffic management center  
15 which improves the efficiency of all DRPA  
16 facilities by allowing sharing of real time  
17 information between our bridges and PATCO and  
18 the delay information, once centrally accessible  
19 at the TMC can be shared directly with  
20 businesses, such as the ports. National  
21 regional network of intelligent transportation  
22 systems, the TMC will help to facilitate the  
23 continuous movement of people and goods between  
24 New Jersey and Pennsylvania. It will compliment  
25 the existing operations center at NJDOT and

1 PennDOT, allowing for a seamless operations and  
2 management plan for the regions highways to take  
3 hold, getting timely and accurate traveler  
4 information out to the public and businesses,  
5 reducing response and clean up times for  
6 accidents improving overall traffic flow,  
7 redirecting drivers to less congested roadways  
8 thereby reducing backups and vehicle emissions  
9 and improving overall quality of life.

10 DRPA is actively working with NJ  
11 communities around our stations to encourage  
12 transit oriented development or TOD. TOD can  
13 help municipalities in coordination with the  
14 private sector, concentrate development around  
15 transit stations. It encourages transit use,  
16 promotes walkability, reduces auto emissions and  
17 preserves the capacity of the existing road  
18 network.

19 We recently completed a master  
20 plan for all seven of our stations in New Jersey  
21 that have surface parking lots to help guide us  
22 as we look at the potential for creating TODs  
23 around each of those stations. We are currently  
24 working with the Borough of Collingswood to TOD  
25 around that station and have recently issued a

1 joint request for qualifications from interested  
2 developers.

3                   The Ben Franklin Bridge west side  
4 traffic mitigation study is looking at ways of  
5 reducing congestion on the bridge and roads in  
6 Center City Philadelphia. Reducing congestion  
7 will reduce air pollution, save on fuel  
8 consumption and greatly enhance quality of life  
9 for commuters and residents of South Jersey and  
10 Philadelphia.

11                   DRPA is taking on the role of  
12 facilitator for a green port with our regional  
13 stakeholder neighbors on the river, including  
14 the South Jersey Port Corporation and the  
15 Philadelphia Regional Port Authority, with the  
16 collective goal of a comprehensive and  
17 coordinated approach to reduce or neutralize the  
18 impacts of port development and operations on  
19 the environment and the community. We are  
20 beginning to map out a framework and strategy  
21 for this initiative.

22                   Finally, there are two PATCO  
23 transit station studies presently underway that  
24 I would like to touch upon. The projects under  
25 consideration in both studies will improve air



1 quality by removing cars from the road. Provide  
2 an alternative for people who cannot or choose  
3 not to drive. Encourage TOD. Help communities  
4 preserve precious land and water resources,  
5 strengthen the linkage between land use and  
6 transportation to aid in south land use  
7 planning. Support regional effort to reduce  
8 auto trip making. Continue directly improve air  
9 quality by reducing auto dependence. Promote  
10 walkability and a healthy lifestyle.

11                   The first, the PATCO Southern New  
12 Jersey expansion alternatives analysis will  
13 address the lack of transit/mobility  
14 alternatives in South Jersey. The existing  
15 PATCO line ends in Camden County. The proposed  
16 expansion would provide a new rail line through  
17 rapidly growing Gloucester County, providing  
18 greater transit connectivity between the key  
19 regional employment locations of Philadelphia,  
20 Camden and Gloucester County with the growing  
21 residential areas of South Jersey. I will  
22 quickly advance through the five New Jersey  
23 alternatives currently under study.

24                   By providing a high quality  
25 transit alternative, this investment would

1 result in many environmental benefits related to  
2 fewer cars on the road, including improved air  
3 quality. Expanded PATCO service would support  
4 population and employment growth in South Jersey  
5 by providing a logical framework around which  
6 transit oriented development could occur. This  
7 investment would not only permit thousands to  
8 take the train instead of driving, but it would  
9 serve to preserve open space, slow the creation  
10 of impervious surfaces, and encourage walking  
11 and cycling.

12                   Several of the alternatives being  
13 studied would provide a one seat ride from  
14 southern New Jersey to Center City Philadelphia.

15                   Initial order of magnitude  
16 ridership estimates for this expanded service  
17 indicate the potential for between ten thousand  
18 and fifteen thousand new transit uses on a daily  
19 basis. This can translate into the potential  
20 reduction of approximately thirty to fifty  
21 million pounds of CO2 per year on top of the  
22 current PATCO system.

23                   The second study is the PATCO  
24 Philadelphia waterfront transit expansion  
25 alternatives analysis. The purpose of this

1 project is to support housing, employment and  
2 entertainment investments along the Delaware  
3 River waterfront in Philadelphia. This area is  
4 presently not easily accessible by both transit  
5 systems that serve the region, PATCO and SEPTA.  
6 Developing transit will decrease auto travel and  
7 the need for parking facilities along the water  
8 front corridor, saving valuable space for public  
9 access to the river via bike and walking paths.  
10 This is consistent with the public visioning  
11 undertaken by PennPraxis in 2007 and reported in  
12 their vision for the Delaware waterfront. If  
13 undertaken, expanded transit investments along  
14 the Philadelphia waterfront will potentially  
15 reduce greenhouse gas emissions further by  
16 thousands of pounds annually.

17 Here are the four alternatives  
18 currently under study in the Philadelphia  
19 project. Both transit studies are in the  
20 alternatives analysis phase, which means that  
21 several alternative alignments are under  
22 consideration. Ridership and construction cost,  
23 as well as operating and maintenance cost data  
24 will be calculated for each alternative and  
25 presented to the public. The next round of

1 public outreach is scheduled for summer 2008. A  
2 complete draft environmental impact statement  
3 will be our next phase of study as required by  
4 the National Environmental Policy Act along with  
5 the preliminary engineering allowing us to  
6 officially document the environmental benefits,  
7 impacts and mitigations of the transit expansion  
8 in southern New Jersey and Philadelphia.

9 Thank you for the opportunity to  
10 present this testimony. You also asked me for  
11 my recommendations to improve air quality. A  
12 major recommendation would be for your help to  
13 keep these transit expansion alternatives in the  
14 public eye. We have conducted extensive public  
15 outreach during our initial feasibility study  
16 and now during our alternative analysis efforts.  
17 What we have heard consistently and almost  
18 unanimously is that residents of our study area  
19 and those that use the highway network within  
20 the study area feel very strongly about the need  
21 for expanded mass transportation. Transit  
22 investments provide numerous benefits both to  
23 society and to individual travelers. Getting  
24 commuters out of cars and onto trains is perhaps  
25 the best investment in clean air we can make.

1 For those of you that are familiar with the  
2 Route 676/76/42/55 corridor, you know how  
3 untenable traffic is now during the weekday  
4 morning and evening commutes, during Friday and  
5 Sunday evening trips to and from the shore and  
6 for events at the sporting and entertainment  
7 complex in south Philadelphia and to the  
8 airport. It will only get worse with time.

9 Your active support, by discussing  
10 these and other transit investments with New  
11 Jersey department leaders, our state  
12 legislators, members of Congress and other  
13 stakeholders will maximize the likelihood of  
14 these proposed investments going the distance.

15 Thank you.

16 MR. EGENTON: Thank you very much,  
17 John, I appreciate it. Do you have time if we  
18 take one or two questions?

19 Is there Council members with  
20 questions?

21 DR. BLANDO: Senator, you  
22 mentioned with the transit oriented development  
23 that seems like a great idea. I was just  
24 curious based on your experiences what you see  
25 as the biggest barriers to those types of

1 developments.

2 MR. MATHEUSSEN: Well, what we did  
3 was we communicated with the individual  
4 communities and let them know that it was their  
5 choice whether or not we would develop transit  
6 oriented development in the boundaries of their  
7 communities and respect their zoning and  
8 planning rights within each community. There  
9 are some communities that do not want to see any  
10 further development. There are some communities  
11 you want to see a particular kind of  
12 development. Could be low impact on their  
13 school system, age related, so dealing with and  
14 going the distance with the individual  
15 communities is perhaps the most challenging, but  
16 I think perhaps the most important element. If  
17 you are going to be successful, you need to  
18 involve the entire community. We have to build  
19 these things not as DRPA dictates, but as the  
20 community desires.

21 MR. EGENTON: One more, Jorge.

22 MR. BERKOWITZ: Thank you,  
23 Senator, very informative. I want to bring you  
24 back to one of your paragraphs. DRPA's taking  
25 on facilitating a green port, regional

1 stakeholders on the river including the South  
2 Jersey Port Corporation and Philadelphia  
3 Regional Port Authority. What relationship  
4 among the three entities and how are you  
5 coordinating your efforts and what do you mean  
6 that you are facilitating green port?

7 MR. MATHEUSSEN: First of all, the  
8 coordination is because we have the money to do  
9 it. Second of all, the relationship between the  
10 three entities are that the DRPA obviously is in  
11 the business of moving traffic through the  
12 region. Most of that traffic in the terms of  
13 what our neighbors are consisted of truck  
14 traffic on both on the Philadelphia side and New  
15 Jersey side. The DRPA, its neighbor across the  
16 river are both involved in the truck traffic  
17 once it leaves or once it gets to the port. So  
18 our coordination is helping to move traffic to  
19 and from the ports as well as investing in  
20 opportunities that will allow the ports to take  
21 a look at some green projects, whether it be  
22 cold steel, cold iron, whether it be low sulphur  
23 fuels or electronic operations of their  
24 forklifts. We are inducing those kinds of  
25 things.

1                   We are also involved in a master  
2 plan particularly for the City of Camden that  
3 will allow and separate the commercial traffic  
4 to the residential neighborhoods that visit the  
5 port every single day.

6                   MR. EGENTON: Thank you very much,  
7 Senator, appreciate your comments.

8                   Keeping on schedule, we appreciate  
9 the next individual who I am going to introduce  
10 took the time out to join us from the West  
11 Coast. It is Peter Greenwald and Peter serves  
12 as the senior policy advisor for the South Coast  
13 Air Quality Management District. He has engaged  
14 in private consulting practice consisting of  
15 regulatory agencies including air quality  
16 districts throughout California and the United  
17 States EPA. His recent work includes developing  
18 innovative regulatory mechanisms and legislative  
19 proposals and engaging in advocacy to local,  
20 state and federal agencies in an effort to  
21 reduce pollution from the goods movement sector.  
22 We appreciate, Mr. Greenwald, that you can join  
23 us here today and enlighten us to share what is  
24 happening over on the West Coast, thank you.

25                   MR. MAXWELL: You mean the left



1 coast.

2 MR. GREENWALD: Stole one of my  
3 jokes. Good morning, it is a pleasure to be  
4 here. I am with the South Coast Air Quality  
5 Management District which is a government agency  
6 responsible for achieving clean air in a roughly  
7 four county area of southern California  
8 including Los Angeles County comprised of about  
9 sixteen million people. We have made a lot of  
10 progress in reducing air pollution in southern  
11 California, but we still have the worst air  
12 quality in the country.

13 Goods movement is a big and in  
14 many ways growing part of that problem and there  
15 are a number of efforts underway to try to  
16 reduce emissions from sources and goods movement  
17 due to legal restrictions on state and local  
18 authority. We also are very active in  
19 advocating for stronger standards at the federal  
20 and international levels which I will be talking  
21 about in a moment. Which is how I recently came  
22 into contact with representatives of the New  
23 Jersey Department of Environmental Protection in  
24 supporting S1499 which was the bill that  
25 Commissioner Jackson referred to earlier which

1 would cut sulphur content for marine vessels and  
2 I must say we thought that Commissioner  
3 Jackson's testimony before the environmental  
4 public works committee was some of the most  
5 effective provided that day.

6                   We believe it is important to get  
7 support for stronger policies at the federal  
8 level and international levels, have wide  
9 understanding of these issues and wider  
10 implementation of the control technology, as I  
11 will be discussing in a moment, that will help  
12 us and around the country.

13                   Southern California area, this is  
14 Los Angeles basin, again, about sixteen million  
15 people. Just by way of background, our key  
16 pollutant problems are particulates and ozone.  
17 We have different attainment deadlines, but we  
18 have got, again, some of the most severe  
19 pollution in the country. Little bit of a quick  
20 background. This slide shows that a number of  
21 days of exceeded of the federal ozone standards  
22 in the last few decades. The good news is we  
23 have made a good deal of progress, the two top  
24 eight hour ozone standard. The bad news is that  
25 we are concerned the progress seems to be

1 leveling off and we still have about eighty days  
2 out of the year that the federal ozone standard  
3 is exceeded.

4                   Also in the realm of bad news,  
5 there have been a number of medical studies  
6 recently which have shown what even the levels  
7 of pollution that we have now, there are some  
8 very severe adverse health affects. This slide  
9 alludes to one of those studies which is USC  
10 children's health study which shows that  
11 children growing up with relatively high  
12 particulate pollution are at greater risk of  
13 reduced renal function which in turn is a risk  
14 factor for a number of adverse health affects  
15 including premature mortality.

16                   One of the things that concerned  
17 me as a parent most that the researchers believe  
18 that the reduction of lung function is likely  
19 permanent, particularly in young woman because  
20 it exists at the time their lungs have fully  
21 formed by age eighteen and a bit older.

22                   Next slide, please. The  
23 California Air Resources Board, the state agency  
24 which has responsibility for mobile source  
25 controls in California has estimated that there

1 are some fifty-four hundred premature deaths  
2 every year in the south basin just to  
3 particulate pollution. Many other health  
4 effects that you have heard about as well as  
5 exacerbated and hospitalization and loss work  
6 days.

7                   In terms of geography, the impacts  
8 for criteria pollutants in our area are largely  
9 in the inland area and the left coast. The  
10 ocean is on the left. We have got primarily on  
11 shore breezes and in those ozone building up  
12 over the course of a day particulate pollution  
13 problems are very similar.

14                   In terms of toxics, however, the  
15 picture geographically is quite different. This  
16 is the result of a monitoring study that the  
17 South Coast Air Quality conducted a few years  
18 ago which estimated cancer risks over our  
19 region. This slide shows the results without  
20 diesel, the yellow areas are relatively higher  
21 risk. The purple higher still. That purple  
22 area to the left is over Los Angeles  
23 International Airport. If we include diesel, we  
24 have a very different picture.

25                   The average cancer risks in our

1 area are approximately one thousand two hundred  
2 in a million. We consider -- that is from air  
3 toxics. We consider that to be very  
4 significant. Air quality district rules  
5 prohibit stationary sources from emitting toxics  
6 creating risk in excess of ten in a million for  
7 new sources and twenty-five in a million for  
8 existing sources so twelve hundred in a million  
9 average over the area is considered very high.

10 The highest risks are found in  
11 that purple appear at the lower left corner.  
12 That is a technical term right here and that is  
13 right over the ports of Los Angeles and Long  
14 Beach, the largest combined cargo through-put  
15 container imports in our country.

16 You can, if you look carefully,  
17 make out the key transportation corridors  
18 including freeways, areas where there is a lot  
19 of rail traffic and such and the reason is that  
20 the primary source for this risk over eighty  
21 percent is diesel particulate matter. This  
22 slide indicates it contributes eighty-three  
23 percent. There is a more recent version of that  
24 study of the risk was found from diesel  
25 particulate matter.

1                   One final point, there is  
2 currently a lot of research going on on the  
3 subject. Ultimate fine particulates less than a  
4 tenth of a micron in diameter. The photo on the  
5 left is indicating the size we are talking about  
6 that gray area is a diameter of a human hair.  
7 On the right there is summary of some work with  
8 the air resource board did. They got into  
9 electric vehicle, drove the highways and other  
10 areas and counted ultimate fine particles and  
11 you can see that the highest levels were found  
12 on freeways behind diesel trucks up to a million  
13 particles per cubic centimeter.

14                   I'd like to bring a sugar cube and  
15 hold it up and point out the area of volume  
16 which you have up to that many particles and I  
17 went to the cafeteria and you don't have sugar  
18 cubes, you have these little packs. So I will  
19 hold up one of these. Probably you can imagine  
20 if you're behind a diesel truck, this is what  
21 you will be exposed to.

22                   Some of the key air quality  
23 challenges we have are the easy reductions that  
24 have been achieved. If you were representative  
25 of the industry you probably take issue that

1 word easy, that is why I put it in quotes. We  
2 have the most stringent standards in the country  
3 for factories and power plants.

4           New standards alluded to end  
5 growth and goods movement. This is where it all  
6 begins in our area and I suspect to a large part  
7 here. This is a container ship arriving from  
8 Asia to the port of Los Angeles. This container  
9 ship is powered by an enormous diesel engine. I  
10 recently had an opportunity to go into the  
11 engine room of one of these vessels. As I was  
12 standing there looking at this engine which is  
13 about three stories tall, I was struck that in  
14 this country we have such severe pollution  
15 problems in many areas that we regulate  
16 pollution of small underarm antiperspirants and  
17 barbeque lighter fluids and yet there are no  
18 federal, state or local emission standards that  
19 apply to that three story tall engine.

20           This vessel is foreign flag. That  
21 is important because the U.S. government has not  
22 adopted an emission standard or foreign flag  
23 vessels. This vessel holds thousands of  
24 containers. Certainly every one of those  
25 containers will become a truck powered by diesel

1 on our highways. That vessel will dock here.  
2 This is the overview of the ports of Los Angeles  
3 and Long Beach.

4 Growing container cargo  
5 through-put similar to here as I understand it,  
6 and about over forty percent of the nations  
7 imported goods come through these ports. The  
8 majority of goods go to the rest of the country.  
9 The container will be removed from the vessel by  
10 these large gantry cranes which are notable, but  
11 they are virtually the only sources in the goods  
12 equipment movement chain that is not powered by  
13 diesel. These are electrified. The container  
14 will be dropped on yard equipment that is  
15 powered by diesel. Cargo handling equipment is  
16 also diesel or onto a train. These are on dock  
17 rail yard like this is pulled by diesel  
18 locomotives. More diesel cargo handling  
19 equipment at near dock or off dock rail yards.

20 This is one of the off dock rail  
21 yards. The large portion of those containers  
22 will travel our highways, again, diesel powered  
23 trucks. Rail intermodal ports serve the whole  
24 country. The key pollutants created by all this  
25 equipment are diesel particulates, sulphur



1 oxides and NOx. I am going to talk about each  
2 of those in turn.

3 This is a result of inventory  
4 recently conducted by ports of Long Beach. They  
5 are working together. The notable points are  
6 sulfur oxides. You can see the marine vessel  
7 which is the dark blue predominant NOx large  
8 capacity as well as the trucks which are the  
9 light blue and particulates, marine vessels,  
10 trucks and contributions by all of these  
11 sources. I have copies of this so you can take  
12 a look at this later.

13 Diesel particulates created by  
14 these port sources are a very large and growing  
15 portion of our inventory, currently about  
16 thirty-two percent of diesel particulate matter  
17 emissions in our area will be growing to growth  
18 and cargo through-put in reductions and other  
19 sources. Key point to keep in mind that with  
20 diesel particulate matter proximity matters.  
21 These can create significant localized impacts.

22 This photo is taken on the  
23 playground of a school near the ports of Los  
24 Angeles and Long Beach next to a highway on  
25 which container traffic is carried across the

1 street from the location of a new rail yard. We  
2 have a QMD monitor on that elementary school.  
3 It is a particulate monitor. The filters that  
4 go into that -- I brought some air pollution in  
5 southern California. The particulate filters  
6 that go into the monitor look like this when  
7 they go in, they are white kind of like coffee  
8 filter. Twenty-four hours later they come out  
9 and they look like this. The dark color is  
10 indicative of products of combustion, largely  
11 diesel exhaust. It is designated carcinogenic  
12 in California. The volume of air pulled through  
13 that filter is approximately equal to what a  
14 human being would breathe in a three months'  
15 time.

16 We think it is very important to  
17 be cognizant of location when citing goods  
18 movement facilities. It is also very important  
19 to get those diesel emissions down and consider  
20 alternatives such as alternative fuels or  
21 electrification. The air resources board has  
22 conducted health risk assessments of many  
23 facilities involved in goods movement in our  
24 area. This is some of the key findings. Cancer  
25 risks in excess of five hundred in a million

1 from the ports and similar levels from some of  
2 the rail yards.

3                   This is a modification of the  
4 slide I showed earlier, cancer risks in our  
5 area. We zeroed out emissions from all sources  
6 other than marine vessels and this was the  
7 result. The findings are and, again, this is  
8 the area of the ports right here. The findings  
9 were that there is about four million people  
10 exposed to cancer risks in excess of a hundred  
11 in a million maximum risk. You can actually see  
12 offshore the road of the main shipping line  
13 entering the area. Cumulative impacts are  
14 concern particularly with diesel particulates as  
15 well as some of the other pollutants. This is  
16 an overview of part of the port here and then  
17 you could see there is refining and all kinds of  
18 other activities which are going on there.

19                   By the way, I went back after I  
20 took this picture, I went back to a  
21 meteorologist and asked them is this a bad air  
22 pollution day because it looked pretty bad and  
23 they said no, actually it was very good. I said  
24 why, you see that brown haze in the distance.  
25 They said the air pollution was good enough so

1 the air was clear so you could see the  
2 pollution. Normally the pollution is so bad you  
3 can't see the pollution.

4 Sul fur oxides, the key message  
5 here are the ships are predominant because of  
6 the high sulphur fuels they burn over fifty  
7 percent -- actually seventy percent I think it  
8 is similar in areas such as this which are  
9 caused by the marine vessels. The reason for  
10 that difference is that the state adopted a rule  
11 that limits the sulphur content of fuels used in  
12 auxiliary engines in marine vessels. That rule  
13 will result in the benefits, this yellow area is  
14 the off road contribution. That will result in  
15 significant reductions in sulphur efficiency,  
16 but there was a legal challenge filed by the  
17 merchants shipping association in the Ninth  
18 Circuit Court of Appeals just recently  
19 overturned that rule and the result if that rule  
20 cannot be implemented that the marine vessels  
21 fifty percent contributions will be contributing  
22 seventy percent. The fuel sulphur content just  
23 to give you an indication, the hourly sulphur  
24 content of fuel used in ocean going vessels,  
25 twenty-seven thousand parts per million. As you

1 probably know on road and other fuels in the  
2 United States limited to fifteen parts per  
3 million. So that is an enormously high level  
4 and contributions to particulates.

5                   We have conducted analysis showing  
6 that about seven hundred premature deaths could  
7 be avoided in southern California just by  
8 controlling marine pollution. That is over one  
9 third of the benefits of the entire state plan  
10 to meet the standards. The major portion of  
11 that benefits is low sulfur fuels.

12                   This shows the contributions to  
13 nitrogen oxide which is a particulate in our  
14 area. The green top of the bars are declining.  
15 These are the benefits of all the rules on the  
16 books today including future effective dates  
17 over the coming years. This horizontal purple  
18 line was where we need to get to achieve  
19 attainment and the news story here is that this  
20 yellow area which is the contributions of  
21 sources in goods movement that are port related  
22 actually by itself exceeds the carrying capacity  
23 in our area to achieve the federal annual eight  
24 hour ozone standard. So clearly we need to  
25 control those emissions. The green area, the

1 other emission sources are relatively well  
2 controlled compared to goods movement sources.

3                   Ships in our area, this is NOx,  
4 top ten NOx sources. Ships number three. This  
5 green bar is all of the refineries, power plants  
6 and three hundred other largest stationary  
7 sources in our region. Ships much larger and  
8 locomotives, aircraft on par. By 2023 ships  
9 become number one and, again, the aircraft,  
10 locomotives on par with all the large stationary  
11 sources. This is one reason the level of  
12 control is relatively low particularly for  
13 ships.

14                   The EPA a few weeks ago released a  
15 new rule on locomotives. This slide is a bit  
16 outdated. I noted that will result in over  
17 ninety percent control from new locomotives, but  
18 not until 2015. There has been a lot of fleet  
19 turnover after that, but get significant  
20 benefits so it is going to be a long time. This  
21 was the result of some work done by Professor  
22 Corbit at the University of Delaware. He  
23 recently published a global study of health  
24 impacts of marine vessel emissions and he was  
25 kind enough to pull out the portion for the

1 United States for us and it shows basically that  
2 there are significant health impacts from marine  
3 vessel emissions all around the country.

4 This is EPA website showing levels  
5 of diesel particulate matter in the country.  
6 This is not just a southern California issue.  
7 Control action on the ships, the international  
8 maritime organization standards are  
9 extraordinarily weak. We allow forty-five  
10 thousand BPM sulphur content. Doesn't do  
11 anything when the average content is  
12 twenty-seven thousand BPM. Last Friday a  
13 committee of the maritime organization proposed  
14 a tighter standard and there will be a meeting  
15 in October where those standards will be  
16 considered and I put a question mark there, we  
17 will see what happens. USEPA rules don't apply  
18 to foreign flag vessels. They present ninety  
19 percent of pollution problems so they have not  
20 had a significant impact on those ocean going  
21 vessel emissions. EPA had committed to consider  
22 adopting standards by April 2007 and extended  
23 that to the end of 2009. We have sued them  
24 about that and we are hoping for more stringent  
25 standards at the national level.

1                   One of the things we are  
2   advocating in this bill we are talking about  
3   earlier, S1499, which are required to adopt more  
4   stringent standards. Locomotives, again, level  
5   of control not up to what other sources which  
6   generally about ninety percent control in  
7   southern California for stationary sources. The  
8   newest locomotives being sold right now have a  
9   fifty-eight percent control for NOx, similar  
10  level for particulates. Much better can be  
11  achieved, in fact, filters which have ninety  
12  percent control level are installed on  
13  locomotives in Europe and the new rule will  
14  again require deployment of those more stringent  
15  technologies, but it will be some time.

16                   State and local efforts, I put the  
17  authority issues at the top, but I mentioned  
18  earlier there have been lawsuits. There are a  
19  number of legal hurdles. Any time a state or  
20  local government tries to control emissions from  
21  sources in international or interstate commerce.  
22  Nevertheless, California has some unique  
23  authorities and there are things that can be  
24  done even if we are not talking about  
25  California. In California the state has adopted



1 and is promoting to adopt a number of rules that  
2 would limit emissions from marine vessels,  
3 require turnover of the truck fleets, marine  
4 vessel auxiliary engine rules, short power dock.  
5 I don't have time to go into them, but I will be  
6 happy to talk to you later about those or  
7 provide additional information.

8                   In South Coast we have adopted  
9 rules that would require risk assessment at rail  
10 yards, limit locomotive idling. Locomotives  
11 idle an extraordinary amount of time and we  
12 believe unnecessarily so. Those rules were  
13 challenged by the railroads and were recently  
14 invalidated by Federal Court. Those are on  
15 appeal right now and other actions that are  
16 described in our air quality management plan  
17 which I will be happy to site for you. You can  
18 take a look, it is all on the Internet.

19                   One of the things that has  
20 happened in southern California is that port  
21 projects have been challenged by environmental  
22 groups. This slide alludes to one such  
23 challenge which was a legal challenge under what  
24 is called the Environmental Quality Act.

25                   As you can imagine, the growth in

1 goods movement through-put, there are efforts to  
2 expand for the infrastructure. The ports want  
3 to grow and the cargo through-put is a very  
4 important part of our economy. This particular  
5 litigation resulted in a settlement where shore  
6 power was implemented and a number of other air  
7 pollution control actions. This vessel you can  
8 see is being plugged in here from this barge and  
9 it is not operating its auxiliary engines at  
10 dock which greatly reduces the key sources of  
11 local air pollution near the ports which is the  
12 running of those auxiliary engines. Probably  
13 because of those kinds of challenges, the two  
14 ports, Los Angeles and Long Beach, has recently  
15 gotten and adopted San Pedro Bay ports action  
16 plan. It is the first time the ports got  
17 together a joint meeting in forty-nine years so  
18 they obviously thought this was very important.  
19 The plan includes a wide range of control  
20 measures to be implemented by the ports and I  
21 don't have time to go through all these, but  
22 basically cover all the sources I have been  
23 talking about. Low sulphur fuels, cargo  
24 handling equipment, retrofit and replacement or  
25 for rail.

1                   The legal mechanisms that the  
2 ports are using are, number one, project  
3 approvals and this slide alludes to a recent  
4 project approval that the port of Los Angeles  
5 where the ports have imposed environmental  
6 conditions on a lease and on approval of a  
7 project which require short power and many other  
8 things designed to reduce emissions from current  
9 levels.

10                   The ports are also considering  
11 port wide programs. They recently adopted a  
12 clean truck program which is designed to  
13 basically turnover the entire fleet, the sixteen  
14 thousand eight hundred drayage trucks by 2012 to  
15 2007 or later model year. Just about a week or  
16 two ago, they adopted a main engine low sulphur  
17 program for marine operators to use low sulphur  
18 fuels on approach and on exit from the ports.  
19 Technology advancement program is also part of  
20 these joint efforts.

21                   This slide alludes to one project  
22 that we are co-funding which is development of  
23 an electrical power drayage truck basically to  
24 take the containers from the ports to near dock  
25 rail yards.

1                   Key message I want to convey that  
2 the solutions are available. Technological  
3 solutions are available. The key issue is how  
4 to get them implemented. There are controls  
5 applicable to all the sources I have been  
6 talking about and in many respects that are  
7 starting to be deployed right now and we expect  
8 a lot more presenting in the near future.

9                   Some recommendations, I'm not  
10 entirely familiar with your circumstances here  
11 so these are rather general. Ensure that  
12 policymakers and the public are informed about  
13 air quality issues. Advocate for sufficient  
14 federal, international actions particularly  
15 important with some of these international  
16 interstate sources. Use all available state and  
17 local authority. Again, the ports are using  
18 their authorities. Funding programs, it sounds  
19 like you are doing many of these thing already  
20 from Commissioner Jackson's remarks earlier  
21 today. Support technology demonstration as  
22 appropriate infrastructure to log the location  
23 of sources that are involved in goods movement,  
24 particularly diesel sources.

25                   Take away message, impacts are

1 very severe at least in our area, we think in  
2 many areas and the country. Solutions are  
3 available and all levels of government must act.

4 Thank you very much.

5 MR. EGENTON: Thank you, Mr.  
6 Greenwald. We have five minutes left if you  
7 could indulge us if there is any other questions  
8 from Council members.

9 I was just going to ask you as far  
10 as on the West Coast with the competitive issue  
11 with the ports that you mentioned, if we look at  
12 some of these possibilities here on the East  
13 Coast, we obviously have a big port in Newark,  
14 Elizabeth, New York region and there is  
15 competition with us with Halifax up north as  
16 well as Baltimore in the south. So would you  
17 recommend as we move forward in sort of an East  
18 Coast type of implementation of how the ports  
19 implement you said a lot of this is done by  
20 federal jurisdiction. So I just want to get  
21 your guidance on what you are doing out in the  
22 West Coast as far as those recommendations.

23 MR. GREENWALD: Our general  
24 philosophy is to push all levels of government.  
25 That because there are uncertainties with anyone

1 of these, IMO may adopt sufficient any stringent  
2 orders and they may not. The Federal Government  
3 may or may not. There maybe a lot. The point  
4 being we are advocating all levels of government  
5 become involved and do what can be done and  
6 there is a synergistic affect of this. This is  
7 a sense of inevitability created we believe, for  
8 example, that the marine vessel building  
9 Commissioner Jackson mentioned earlier today has  
10 already had beneficial impact on the  
11 international maritime organization as IMO sees  
12 that the U.S. government is serious about  
13 controlling these emission sources here.

14 One of the things that industry  
15 would prefer to see international standards  
16 rather than individual standards and different  
17 ports or different countries so even large  
18 industry such as the World Shipping Council have  
19 supported IMO action that is sufficiently  
20 stringent to meet the air quality needs of all  
21 areas. So, again, we think it is very important  
22 to be acting when it can be done at all levels  
23 of government.

24 In terms of competitive  
25 disadvantage, we sometimes hear arguments about

1 this. Again, we believe that by moving at all  
2 levels that the higher levels will eventually  
3 come to that same level. Also, it is important  
4 to keep in mind the cost and benefits, for  
5 example, low sulfur fuels we talked about today.  
6 We have done analysis that the cost are really  
7 quite reasonable and we don't believe will  
8 result in any significant amount of diversion.

9 To give you some examples, we  
10 calculated that increase the cost for a pair of  
11 tennis shoes imported from Arabia or plasma T.V.  
12 and we are talking about fractions of a penny  
13 for the shoes and just a few cents for the  
14 plasma T.V. and you compare that to the health  
15 benefits which I didn't have a chance to get  
16 into the monetized benefits of these programs,  
17 but they are in the bills.

18 MR. EGENTON: I would suggest you  
19 watch the use of the word monetized in this  
20 state. The governor is starting to change the  
21 lingo. It is now financial restructuring, but I  
22 appreciate the input, Mr. Greenwald.

23 Other Council members, Toby.

24 MR. HANNA: With respect to the  
25 IMO's action, whatever it may be, what does

1 the -- how does that change the inventories?  
2 How does it change the modeling for ambient  
3 impacts or health risk? Can they go far enough  
4 or does their need to be action beyond that?

5 MR. GREENWALD: The standards that  
6 the marine environmental protection committee of  
7 IMO proposed last Friday the ultimate standards  
8 are in our view good. The key question is will  
9 they be adopted and secondly the timing. The  
10 timing is relatively far out in the future, for  
11 example, for sulphur content of fuels they are  
12 proposing one thousand parts per million. May  
13 sound high, but the current level is well over  
14 ninety-five percent reduction, but only in  
15 certain levels. The most stringent NOx  
16 standard, eighty percent NOx standard over and  
17 above current standards they are proposing, but  
18 only for new vessels built in the year 2016 and  
19 later. Again, vessels last a very, very long  
20 time so fleet turnover is the big issue in terms  
21 of significant benefits there.

22 So those reductions ultimately  
23 will translate into benefits and, in fact,  
24 essential benefits in our case for attainment  
25 purposes as well as in reduced particulate



1 levels causing cancer risks and other health  
2 impacts in the vicinity of the ports as well as  
3 large areas downwind. You saw in the modeling  
4 and we have modeled those benefits because we  
5 are assuming those kinds of reductions in our  
6 state implementation plan. We cannot get to  
7 attainment without those several reductions.

8 MR. EGENTON: Irwin.

9 MR. ZONIS: Mr. Greenwald, you are  
10 able to move a higher percentage of containers  
11 arriving at the port by rail to remote uses. A  
12 higher percentage than we do here in New Jersey.  
13 Were you blessed with pre-existing facilities or  
14 did you build new rail facilities to handle that  
15 amount of traffic?

16 MR. GREENWALD: I'm not familiar  
17 with your situation here, the ones you have  
18 here. We handle about a quarter of our  
19 containers by on dock rail at the ports of Los  
20 Angeles and Long Beach. We'd like to see that  
21 go higher because when it is not handled by on  
22 dock rail, at least the portion that goes out of  
23 our region gets on the truck on the highway then  
24 a rail yard, put on a train which is not  
25 particularly efficient and results in impacts

1 all along. The ports are targeting getting up  
2 to thirty-eight or forty percent on dock rail.  
3 I don't know if I answered your question, but  
4 the efficiencies of the ports is one big issue.  
5 Some of the other ports around the world  
6 particularly in Asia have been higher  
7 efficiencies per acre than our ports, but they  
8 are set up very differently and I'd be happy to  
9 talk to you about it more, but I am not sure if  
10 I answered your question.

11 MR. ZONIS: That would require new  
12 investments to improve from twenty-five percent  
13 to say thirty-eight or forty?

14 MR. GREENWALD: Yes, they would  
15 have to expand. On dock rail capacity is  
16 limited space which raises an issue of how they  
17 conduct their operations within the port  
18 boundaries.

19 MR. EGENTON: Thank you, Irwin,  
20 Just last question from the chairman, Jim  
21 Blando.

22 DR. BLANDO: I was just curious,  
23 one of the intriguing aspects of ports I have  
24 seen here and I wonder if you look at these is  
25 the fumigation of cargo. Have you looked at in

1 California the fumigation of cargo that comes  
2 in?

3 MR. GREENWALD: Yes, but I  
4 personally have not -- I am not personally  
5 familiar with it, but I know the issue has been  
6 one. I can get you information about it. I can  
7 get you in touch with people that know about it.

8 MR. EGENTON: Thank you, Mr.  
9 Greenwald. I thank you.

10 I just want to remind the audience  
11 that as far as this public hearing, that the  
12 Council members have the ability to ask the  
13 speakers regarding questions. If there are  
14 questions from the general audience, I would  
15 encourage you to submit that through the DEP  
16 e-mail process and we will make sure that staff  
17 and everyone else concerned in the air division  
18 gets back to you. So thank you for your  
19 consideration.

20 Our next speaker is Tim Pohle.  
21 Tim, thank you. I know you made a trip from  
22 Washington D.C. to be here with us today. He is  
23 the managing director of the U.S. Environmental  
24 Affairs and assistant general counsel for the  
25 Air Transport Association of America. Before

1 joining ATA in September 2005, Tim was in  
2 private law practice focusing in on  
3 environmental and aviation law. Tim represents  
4 airlines, airports and surrounding communities  
5 regarding safety, security, environmental and  
6 local land use matters before a federal and  
7 state agencies of course. At ATA, Tim manages  
8 the Active Environment Council which directs  
9 airline involvement and domestic environmental  
10 issues of national significance. Under Tim's  
11 direction, developing policy regarding air  
12 quality impacts relating to airport operations  
13 continues to be a major focus of the Council.  
14 Tim, we appreciate the time you took to be with  
15 us here from Washington and please share with us  
16 what is going on in the aviation industry.

17 MR. POHLE: Sure. Thank you very  
18 much. I really appreciate the chance to be here  
19 by train from D.C. Unlike my trips to southern  
20 California which I visit with very frequency as  
21 well. I am filling in at the last minute so I  
22 apologize for any typos or some of the  
23 informality of my comments here. I just want to  
24 give a little bit of background. At ATA we are  
25 the oldest airline association. We represent

1 the areas you all heard of.

2 Our members and our affiliates  
3 transport over ninety percent of passengers and  
4 cargo in the U.S. Environmental issues are of  
5 huge importance to us and have taken on even  
6 greater importance recently. We have created an  
7 environmental department in the last year. I  
8 run the environment council which is basically  
9 the U.S. domestic affairs. Then we have an  
10 international noise and emissions committee  
11 which deal with international affairs. That  
12 means I get to come to Trenton and my  
13 counterparts get to go to Geneva.

14 Just a little overview of what I  
15 am going to be doing today. I just want to go  
16 over where our emissions come from. I don't if  
17 folks know, but basically the aircraft and what  
18 we call ground support equipment which is  
19 basically all the stuff you see scurrying around  
20 the aircraft at the airport to help support our  
21 operations. Things like catering trucks,  
22 baggage loaders, those kinds of things that you  
23 see right alongside the air aircraft while you  
24 are boarding and hopefully getting out on time.

25 Like all sources of impact are

1 both global and local. The global are really  
2 the greenhouse gas. Local air quality emissions  
3 and one thing I want to stress is that there are  
4 potential trade-offs on among these emissions  
5 including trade-offs with other impacts, mainly  
6 noise which continues to be an extremely  
7 important issue to us as well.

8 Another aspect of our emissions  
9 profile I think is that we are extremely  
10 emissions efficient. By that I mean relative to  
11 the economic impact we have. We have a  
12 relatively small emissions footprint and I will  
13 be giving you figures about that in just a  
14 moment.

15 I just want to touch on the  
16 regulatory framework both at the international  
17 and U.S. level and also at the local level.  
18 Local level when there are infrastructure  
19 improvements, I think folks are aware there is  
20 an approval process which is basically a de  
21 facto additional layer of regulation. And I  
22 want to get into what we are doing because we  
23 have done and are doing a tremendous amount and  
24 we are actually very proud of our record and I  
25 am looking forward to sharing that with you. I

1 just want to touch on some other impacts. The  
2 profile.

3           The things to stress here is our  
4 emissions, aircraft emissions are purely a  
5 function of fuel burn and the basic constituents  
6 we are seventy percent carbon dioxide, about  
7 twenty-nine plus of water vapor. That is just  
8 the carbon and the hydrogen oxidizing in our  
9 engines and in the fuel and you can see that it  
10 is extremely efficient because that accounts for  
11 ninety-nine percent plus of our emissions. Then  
12 we have traces of these other emissions.

13           I think the other thing to stress  
14 here is that the more we save, the less we emit  
15 and our economic and our environmental  
16 impairment reinforce one another. Fuel is our  
17 number one cost center. It is up in the  
18 neighborhood of forty percent for some carriers  
19 now. Every penny of fuel, again, fuel cost  
20 translates into about two hundred million  
21 dollars of our bottom line. So if we can save  
22 fuel and we can avoid burning it, we do it. The  
23 other point here is that we are relatively small  
24 contributor. We account for about two percent  
25 of greenhouse gases in the U.S. It is about .7

1 percent in New Jersey based on my review of the  
2 inventory, trapped inventory, that is out.  
3 Local emissions are generally less than six  
4 percent around most airports. That is airport  
5 emissions, that is everything, not just airport  
6 GES, that is everything as an airport. It is  
7 about four percent for New York area and that is  
8 JFK, LaGuardia, LGA last time I checked LA is  
9 not part of the New York area. So it is about  
10 four percent in the New York area and I took a  
11 look at the latest inventory and these figures  
12 for aircraft and GSE are from 2002. Actually  
13 emissions for New Jersey and aircraft are about  
14 .1 percent of VOCs, .5 percent of NOx. GOC  
15 accounts for .17 percent of GOCs in the  
16 inventory. Our footprint is really relatively  
17 small. In fact, I'd say they are small slivers  
18 in some cases. We are an extremely emissions  
19 efficient economic engine.

20                   Nationally, we support about nine  
21 percent of employment. We drive about five  
22 percent of gross domestic product. One thing I  
23 don't think folks are necessarily aware of, we  
24 carry twenty-five percent of U.S. international  
25 merchandise trade measured by value. That is



1 not weight, that is by value. By weight I think  
2 we are less than one percent. The value of our  
3 cargo is so high, it is eighty-eight thousand  
4 dollars per ton versus about less than eight  
5 hundred dollars per ton for a truck and less  
6 than four hundred dollars for shipping. That  
7 even though we carry very small portion of the  
8 trade by weight, we carry a huge twenty-five  
9 percent portion when it is measured by value.  
10 This is something I think might surprise a lot  
11 of folks and that is that our emissions since  
12 2000.

13 In 2006 we actually burned four  
14 percent less fuel which means compared to 2000  
15 we're emitting about four percent less than  
16 everything, but we carry twelve percent more  
17 passengers and we carried twenty-two percent  
18 more cargo. So it is less emissions and more  
19 service. It is more passengers, more cargo. I  
20 think it is an enviable record that is really  
21 unparalleled.

22 I think there are challenges. One  
23 is that we plan to grow and hope to grow and  
24 emissions are likely to follow. The IPCC which  
25 is the International Panel of Climate Change

1    which the UN panel you hear about from time to  
2    time coming out there recommends on global  
3    climate change says that aviation for about  
4    three percent of CO2 and six percent of time and  
5    change impact in 2050. So that gives you a  
6    sense of we are, two percent domestically and  
7    three percent worldwide. Most likely scenario  
8    is that we may go to six percent in 2050, but  
9    one thing I would point out is that our growth  
10   rates differ.

11                    In the U.S. we have very mature  
12   markets. It is not going to grow at the rate  
13   that China is growing, that India is growing,  
14   that the Middle East is a huge growth area for  
15   aviation. That is really where we are seeing  
16   most of the growth. There are structural issues  
17   that constrain our operations. Our aircraft and  
18   engines are extremely expensive. They have a  
19   long useful life so it is hard to turn that  
20   over. We have many -- safety is our absolute  
21   number one imperative and we have to make sure  
22   that any kind of advances with our equipment or  
23   fuel meet those safety standards. It takes a  
24   great deal of lead time to develop technologies  
25   and deploy them in the real world and we have a

1 limited ability to pass on our cost. I think  
2 folks have heard about our attempts to impose  
3 fuel surcharges and we have had intermittent  
4 success with those. That means as the fuel  
5 prices have gone up, we have tried to recover  
6 some of that cost through airfare increases and  
7 the market is such that we haven't necessarily  
8 been able to do that.

9                   Local emissions constraint,  
10 facility expansion as I talked about before and  
11 I wanted to emphasize again that there are  
12 potential trade-offs. There are other  
13 environmental parameters that mean a great deal  
14 to us including noise and obviously sometimes  
15 there are trade-offs with noise versus fuel burn  
16 and we have these other issues to deal with,  
17 fuel management, ensuring that there aren't  
18 leakages of fuel into the ground water, et  
19 cetera and controlling stormwater run off from  
20 the area port.

21                   Little background on the aircraft  
22 emission standards. These are set or originate  
23 at the international level through something  
24 called ICAO and the committee -- you can read  
25 the full acronym out there and these standards

1 are set at the international level and adopted  
2 by the EPA and an FAA clean area. You see here  
3 that essentially the CO, the HC and the smoke  
4 have been reduced so much that in recent times  
5 it's been considered unnecessary to reduce them  
6 even more. NOx standards continued to be  
7 ratcheted down from 1993 to 2008 this  
8 implementation date. We have reduced about  
9 forty-one percent the NOx standard has come  
10 down. ICAO is considered doing a carbon dioxide  
11 standard, but they decided it was unnecessary  
12 essentially because fuel is the driver there and  
13 we are already motivated to minimize our fuel  
14 burn.

15 I point out that EPA is planning  
16 public advanced notice of proposed rule making  
17 that is what ANPRM stands for and that is in  
18 response to a petition to the states asking EPA  
19 to take a closer look at that. New Jersey is  
20 one of the petitioners in that instance and we  
21 welcome this. We think we have got a great  
22 record and we think that any time folks can take  
23 a look at it and it is only going to be a good  
24 thing for us. This is really what we get down  
25 to is a fuel efficiency mandate. That is that

1 we are absolutely driven to be as fuel efficient  
2 as possible. As I said, it is our number one  
3 cost center. It is number two for years now it  
4 is over taken it. Again, it is about  
5 forty percent, thirty to forty percent depending  
6 on the carrier in terms of their overall costs.

7 Our fuel efficiency record I think  
8 is hard to match from any other sector. We have  
9 improved about a hundred and three percent since  
10 1978. Sometimes you see a figure that fuel  
11 efficiency of aircraft operated are about  
12 seventy percent more efficient. Well, the  
13 aircraft may become more efficient, but we don't  
14 stop there. We actually implement new  
15 operations, operational measures. Some of the  
16 things I will get into later and we are able to  
17 operate the aircraft even more efficiently so  
18 that the overall efficiency is even higher than  
19 the equipment improvement. Again, we have had  
20 this absolute reduction in our emissions and  
21 even though we are providing more economic  
22 value, a tremendous amount more economic value.

23 As I said, we are not stopping  
24 there. We have an additional -- ATA airlines  
25 have additional improvement between 2005 and

1 2025 so we have a great record in the past  
2 compared to cars which essentially have remained  
3 flat in terms of their fuel efficiency and  
4 meanwhile our fuel efficiency has gotten much,  
5 much better year after year after year. This  
6 gets into what we are doing. As I said, we do  
7 absolutely everything we can here. We have what  
8 we call a four pillar approach to our addressing  
9 our emissions. It involves technology,  
10 operations, infrastructure, economic incentive,  
11 technology. I just can't help this because I  
12 was on the train coming up here and I couldn't  
13 have been given a better prop today. It is an  
14 article from the New York Times today entitled a  
15 cleaner leaner jet age has arrived and they are  
16 not kidding. I will send the link or provide  
17 the article to y'all, but they talk about such  
18 developments as reliance on composites as  
19 opposed to aluminum, much stronger, lighter  
20 materials transitioning from hydraulic systems  
21 like systems aboard the aircraft and the geared  
22 turbo fan which was developed by Pratt Whitney  
23 which offers about a twenty percent increase  
24 fuel efficiency coming down the line here as  
25 well.

1                   So we just never stop trying to  
2 enhance our existing technology. I think you've  
3 all seen the winglet's that are added to  
4 aircraft wings. They basically reduce  
5 turbulence. It is about six percent increase in  
6 fuel efficiency. They don't come cheap, I can  
7 tell you that. They are probably about a  
8 million dollars to retrofit an aircraft with  
9 those. Advance navigation aides which allow us  
10 to improve our operations as well which I will  
11 get into.

12                   We continue to invest in new  
13 aircraft. I don't know if you heard about the  
14 Boeing Dream Liner 787 coming out. It is I  
15 think first one on line in about 2010 and that's  
16 got about a fifteen percent increase in fuel  
17 efficiency. We are also looking to alternative  
18 fuels and that is through something called the  
19 commercial aviation alternative fuels initiative  
20 or CAFI. The bottom line there is that we want  
21 a different fuel. We want all the alternatives  
22 we can get with skyrocketing fuel prices. Any  
23 alternatives from an economic sense are only  
24 going to put us in a better position, but one  
25 thing I want you to be clear on, ATA just

1 approved principal documents to guide the  
2 petroleum companies in their development of  
3 alternative fuels for aviation and  
4 non-negotiable part of that any new alternative  
5 fuel on a life cycle basis has to be more  
6 environmental friendly than existing fuel. So  
7 we are aren't just saying give us a new fuel, a  
8 new fuel that is more environmentally friendly.

9 We also need a restoration in  
10 federal R and D funds. These have declined an  
11 incredible amount in the last decade or so and  
12 that is exactly the kind of investment that  
13 Pratt Whitney was able to build onto give us the  
14 turbo fan. So it is the kind of thing we need  
15 more of, not less of.

16 We also do absolutely everything  
17 we can to improve our performance through  
18 increased better maintenance and through optimal  
19 operations. Easiest is reducing weight, taking  
20 things like magazines off the aircraft,  
21 replacing carts from heavy carts to the food  
22 carts to lightweight food carts. You wouldn't  
23 believe how much difference it makes. You take  
24 paint off the aircraft, it improves the  
25 aerodynamics and reducing the weight and



1 improves our efficiency. We also do things like  
2 reduce the thrust on take off, single engine  
3 taxiing and engine maintenance like engine  
4 washing. You wash an engine and you can improve  
5 its performance and save fuel.

6                   We are also trying to do  
7 everything we can within the existing air  
8 traffic management system to improve our  
9 efficiency. Things like continuous descent  
10 arrivals. Right now we have got or in the past  
11 it's been more of a descent where you go through  
12 plateaus and every plateau you ratchet up your  
13 power and you come in in steps. Here we are  
14 talking about just as it sounds, a continuous  
15 glide into the airport. It saves fuels, it  
16 saves NOx, it saves noise so it is a win on  
17 every possible front. So those are the kinds of  
18 things we are always trying to do.

19                   One thing I don't think people are  
20 aware of is that we run on a basically 1950's  
21 radar based technology for our air traffic  
22 management system. Your brand new car has a  
23 better navigation system or a more advanced  
24 navigation system with its GPS than we do in the  
25 cockpits. What we are looking for is the U.S.

1 next generation air transport system which is  
2 Nextgen. Essentially that will allow us to  
3 drive straighter paths instead of zigzagging  
4 across the country from radar station to radar  
5 station to allow us to fly straighter paths. It  
6 will allow us to fly more efficient routes and  
7 closer together which will reduce delaying and  
8 improve the efficiency all around.

9                   Again, it is not only going to  
10 improve our fuel efficiency, but it should  
11 reduce noise and other local air impacts as  
12 well. That is the bottom line here is that we  
13 need a system and the Federal Government is the  
14 one in charge of making it happen. One thing I  
15 would point out is we are not asking for a  
16 handout here. We paid for this system. Unlike  
17 a lot of other sectors, we paid for our  
18 infrastructure and that distinguishes us from  
19 virtually everyone else.

20                   So we are not asking for any  
21 handouts. We are asking the Federal Government  
22 to use our money in a smart way to help us  
23 improve our environmental profile and improve  
24 our economic impact. I just wanted to throw  
25 this out because I came across this. This is

1 kind of typical of the kind of impact that an  
2 airport can have. EWR is Newark. You could see  
3 it's got twenty-four thousand people employed  
4 there, about eighteen and a half billion in  
5 economic activity, 6.7 billion in wages and  
6 salaries and hundred and fifty-seven thousand  
7 jobs are derived from the airport. It is that  
8 kind of impact that we have across the country  
9 and juxtapose to the small impacts I noted above  
10 I think you see that what I call our emissions  
11 efficiency is really unmatched by anyone else.

12 Another thing I'd like to talk  
13 about which we are talking about environmental  
14 impacts is our safety record. Because it is  
15 human health in the environment and my colleague  
16 from South Coast was talking about the toll from  
17 carcinogenic particulate matter and the kind of  
18 death rates that can generate. When you look at  
19 our safety record and you look at per passenger  
20 mile basis. Motor vehicles cause about eight  
21 times more fatalities and trains cause about  
22 seventeen times more. When you look at  
23 injuries, it is off the charts. It's about  
24 three hundred sixty times more for motor  
25 vehicles and about twenty-nine hundred times

1 more for trains. That is something that I  
2 always like to point out because any time you  
3 are talking about shifting modes, you can talk  
4 about unintended consequences and those are the  
5 kinds of things to keep in mind.

6 I guess what I would like to do is  
7 if I can find them, leave you with five points  
8 here before I take questions. One is that we  
9 are extremely emissions efficient and we  
10 represent really a small sliver of many of the  
11 air emissions that are of concern here today.  
12 We have gotten there by working extremely hard  
13 to improve our performance. We are driven by  
14 fuel costs in part.

15 Environment is extremely  
16 important. Economics is extremely important to  
17 us too. To me sustainability means economic and  
18 environmental sustainability. Here they are one  
19 in the same thing. They are reinforcing one  
20 another. So we have gotten there by working  
21 really hard and we are not stopping there. We  
22 are going to continue to develop technology. We  
23 are going to continue to develop alternative  
24 fuel. We are going to continue to look for air  
25 management improvement to do everything we can

1 to improve our overall efficiency and the last  
2 thing I'd leave you with is that I really  
3 believe that we need the airlines and you need  
4 the airlines to move us toward a more  
5 environmentally friendly future where we  
6 maintain economic growth. We are extremely  
7 efficient. We drive others to be extremely  
8 efficient and, frankly, I don't think you can do  
9 it without us. I don't think you can get us to  
10 an economic future or future of economic growth  
11 with an improved environmental profile without  
12 us. So I welcome your questions.

13 MR. EGENTON: Thank you, Tim, we  
14 appreciate it. Just to keep on track, I am only  
15 going to take two questions because we are a  
16 couple minutes behind.

17 Jorge and then Toby.

18 MR. BERKOWITZ: Thank you for your  
19 presentation. I understand it is very  
20 interesting the relative impacts of the aircraft  
21 and percentage of the industry normalized over  
22 national level, very interesting. However, I am  
23 interested more localized impacts. If you  
24 were -- I am wondering if you were aware of  
25 studies that would get to the issue of a ten

1 mile radius from the runways. Have people done  
2 an analysis of relative contribution and sources  
3 that you aware of the studies?

4 MR. POHLE: What I refer you to  
5 are the numerous studies that are done in  
6 conjunction with infrastructure improvement  
7 projects, for instance, Philadelphia is doing  
8 one, in the process of doing an expansion plan  
9 and they will conduct a study so there are  
10 studies out there, but what I wanted to point  
11 out here is these emissions are the local  
12 emissions are just what you are talking about.  
13 They are airport emissions. It is about less  
14 than six percent around most airports. About  
15 four percent for the New York area so those are  
16 low emissions.

17 MR. BERKOWITZ: What does local  
18 mean? That is a rhetorical question, you don't  
19 have to answer it.

20 MR. POHLE: I don't know the  
21 answer to that question. I'd be glad to get you  
22 the answer. What I do know is that these other  
23 aircraft are GSE represent the overall inventory  
24 for the state. So that doesn't get to your  
25 local question, but it shows the relative amount

1 and we recognize there are local impacts and we  
2 want to do as much as we can and I think we are  
3 driven to do it. We are driven to do it on the  
4 GSE side. We are driven to do it on the  
5 aircraft side so I absolutely recognize the  
6 import of your question and we look at it and  
7 try to address it.

8 MR. HANNA: It is just a follow up  
9 from that, Jorge, and I share half a brain or  
10 something between us. The GSE that we talked  
11 about ground support equipment. There is lots  
12 of options out there for reducing emissions.  
13 There is terminal power, there is things like  
14 that. Would you be able to supply us with some  
15 more information about what the industry has  
16 been able to accomplish at that level?

17 MR. POHLE: Absolutely, that is  
18 one thing if I had time to fold into this.

19 MR. HANNA: You could forward it  
20 to us separately. I know it is probably half a  
21 page or so.

22 MR. POHLE: It is half of the  
23 presentation, yes, but aircraft are the major  
24 source so GSE is very important. There are  
25 electrification options. There are conversions

1 to newer diesel engines, et cetera that are out  
2 there. Things are getting a lot cleaner. If we  
3 can electrify gates and not have to burn our  
4 fuel with our auxiliary power units we are all  
5 for it. If we can get electric in at airports  
6 that will help us reduce our fuel burn and our  
7 GSE and it makes economic and operational sense,  
8 we are all for it.

9                   We are talking to airports and we  
10 are talking to manufacturers even now trying to  
11 get a better handle on what exactly the economic  
12 analysis is and operational analysis and  
13 environmental analysis to better understand  
14 exactly where we should be pushing, but I can  
15 tell you in southern California, for instance,  
16 about fifty percent of the GSE is electric and  
17 it is concentrated in certain types of GSE which  
18 are amenable to electric. When you are talking  
19 about really heavy cargo movers or cargo  
20 loaders, that is a difficult application. When  
21 you are talking about belt loaders and baggage  
22 tugs, that is a much different animal. We can  
23 deal with that.

24                   Another thing I would point out,  
25 there are climate and operational challenges.



1 Southern California is a different place than  
2 New Jersey, Philadelphia, Newark. So you have  
3 to take those things into consideration, but our  
4 focus, I would point out, that another challenge  
5 that I didn't note here is that the industry  
6 isn't exactly flush with cash so to be able to  
7 buy all those things takes capital and any kind  
8 of support we can get through state grants and  
9 those kind of things to help the airports put in  
10 the infrastructure, for instance, puts in a  
11 great deal.

12 DR. BLANDO: Thank you. I want to  
13 cut in because I think we are running over time  
14 now. Since you are the only representative from  
15 the airlines, are the airlines able to do  
16 anything about the transport, the passengers to  
17 the airport, for example, we have been very  
18 concerned about all the cars that tend idle  
19 outside the terminals and so on. I am wondering  
20 if the airlines have any influence on that?  
21 Just a quick response would be sufficient.

22 MR. POHLE: I hope not. Not that  
23 I am aware of.

24 MR. EGENTON: You know what, Tim,  
25 in the interest of time we appreciate because

1 you were the one sole airline representative  
2 here so we gave you some extra time and you  
3 traveled from D.C. Several of the Council  
4 members, if you could supply with your e-mail,  
5 send us that link on the New York Times article.  
6 We will probable have some follow up stuff.  
7 Toby Hanna talked about what is going on on the  
8 ground and certainly we appreciate the time that  
9 you gave us here today and we will follow up  
10 with you.

11 MR. POHLE: Great, appreciate it.  
12 Thank you.

13 MR. EGENTON: Our next speaker is  
14 Brent Barnes and Brent is the director of  
15 transportation systems planning and research for  
16 the New Jersey Department of Transportation.  
17 His thirty-five year planning career includes  
18 work in municipal and state government,  
19 environmental economic consulting, school  
20 facilities construction and a housing developer.  
21 He is a New Jersey licensed professional planner  
22 and he wrote and published the complete guide to  
23 planning in New Jersey, a compendium of state  
24 planning law and policy and it is published and  
25 lectured extensively on linking land use and

1       transportati on pl anni ng.

2                       Brent, thank you for joi ni ng us  
3       here today.

4                       MR. BARNES: Good morni ng. Thank  
5       you for having us. All of that really means I  
6       am the visi on guy for the asphalt department.  
7       It is not important that I am the visi on guy, it  
8       is important that you understand we are properly  
9       as asphalt department or at lease have been for  
10      the last hundred years or so. We are working  
11      hard to change that. I think you will find some  
12      of this quite interesting. I also have to  
13      apologi ze for my voice this morni ng, pollen or  
14      something is trying to kill me.

15                      So as I said, we have been a land  
16      use asphalt highway department for nearly a  
17      hundred years, eighty years at least and in the  
18      last five to eight years we are sort of breaking  
19      out of that mold and thinking about some new  
20      things. We are heavily engrained wi th New  
21      Jersey Transit and do a lot of transi t pl anni ng  
22      as well as highway pl anni ng. We are not really  
23      in the road bui ldi ng business much anymore. You  
24      might have noticed that we have plenty of roads  
25      out there, but we are in the business of fixing

1     bottlenecks and making small intersection  
2     improvement and creating more efficient roads so  
3     that traffic can flow more easily and air  
4     quality is improved.

5                     Importantly, here we are looking  
6     heavily at demand management. The land use side  
7     of the parking where you get into your car and  
8     how you travel to work is very important to us.  
9     So we are trying to create alternatives to the  
10    single occupancy vehicle.

11                    Another good way to create  
12    efficient transportation is through the use of  
13    technology, intelligent transportation systems.  
14    The most obvious symptom of that, visual  
15    symptoms is that variable message signs that you  
16    see on the highways, but that is just the part  
17    that you see. There are a lot of cameras at  
18    work and transportation centers at work that  
19    work behind the scenes for those visual message  
20    signs to redirect traffic in the event of  
21    incidents and congestion. More importantly,  
22    land use patterns in the state. The state is  
23    heavily built. We are the most densely  
24    populated state in the nation. We are as I'd  
25    like to say, we are the most densely suburban

1 state in the nation. We are working to help  
2 urbanize that just a bit more to create land use  
3 nodes that can be supported by all those other  
4 things. Notably transit.

5                   So the real key question for us is  
6 can land use changes reduce vehicle miles  
7 traveled and if so how much. There is  
8 compelling evidence now over the last five years  
9 or so that land use changes do, in fact,  
10 significantly reduce travel. This is a little  
11 study I did out of Savannah, Georgia. It is not  
12 important to go through all of this, but the  
13 idea here is if you have historic -- even at the  
14 area in the top two or three circles which are  
15 square mile area each are really connected land  
16 use and transportation network, you have a lot  
17 of more efficient travel patterns, economy, land  
18 development patterns, a whole range of things  
19 than you do in the sprawl patterns out here.  
20 This is really an important one here. Five  
21 times more trips per square foot in these sprawl  
22 developments than there are in the densely  
23 developed areas of the city. So an array of the  
24 programs that we have undertaken we still have  
25 going.

1                   Future transportation is our way  
2 of looking at land use and transportation  
3 corridors around the state. We have about  
4 eleven of these programs going. We work with  
5 multiple municipalities at the same time to help  
6 them understand how their land use patterns  
7 impact our transportation network and vice  
8 versa. We work with them on community  
9 development issues primarily, but our focus for  
10 the hand off for our engineers is those  
11 bottleneck solutions I talked about a few  
12 moments ago. Here's an example of one down in  
13 South Jersey, Woolwich Township Center, they are  
14 building a new town center on Route 322 is the  
15 sort of green line that goes through the middle  
16 of there.

17                   In the traditional way of doing  
18 things, development would just sprawl out along  
19 that highway wand we are working very hard using  
20 transport development rights and other tools to  
21 create an internal network for their town center  
22 so the bulk of the trains can be off of state  
23 highway and it can be very walkable and bicycle  
24 friendly kind of place. Another program is our  
25 transit village program. Obviously around bus

1 and rail stations, major ones and this seeks to  
2 create or recreate if you will dense nodes of  
3 development in these areas that excellent job,  
4 housing balance so folks can live, work and play  
5 in the immediate vicinity of transit and not  
6 have to use their cars. This is Collingswood, a  
7 very successful area along the PATCO line which  
8 was a very, very sleepy little community a few  
9 years ago and it is now a happening place, a  
10 hopping place.

11 Another tool we are using is  
12 integrating land use transportation and economic  
13 development. We are actively working in the  
14 Route 1 corridor here to create development  
15 nodes of major employers and make them transit  
16 friendly. In this particular case we are  
17 working on a bus route with transit system  
18 through this area. Very similar to the concept  
19 of the monorail around the Newark Airport area  
20 off the highway system, but it lacks the major  
21 employers and then links with the regional bus  
22 lines and rail lines that serve this area so  
23 that you could come in from New York or  
24 Philadelphia or wherever, access the shopping  
25 and employment in this entire area and never

1 have to use a car.

2 Another one is the Atlantic City  
3 master plan. Atlantic City is scheduled to grow  
4 by about forty thousand new employees over the  
5 next fifteen to twenty years. They can't all  
6 live on the island. We don't want them all to  
7 drive from Ohio which is pretty much the case  
8 for some of the workers. There are literally  
9 people coming from Pennsylvania to work in  
10 Atlantic City.

11 So we are working with the  
12 communities around Egg Harbor, Pleasantville and  
13 some of other close in cities to recreate growth  
14 nodes in conjunction with this growth and we are  
15 also working across the range of transit options  
16 including some you probably never heard of like  
17 personal rapid transit which is a sort of  
18 Disneyland like pod that works on a semi-fixed  
19 guide with a system. Imagine a taxi on a guide  
20 way. A full range of transit options that are  
21 applied here and then across the state when they  
22 can be demonstrated to be successful here.  
23 Mobility and community form is our way of  
24 working with municipalities to link  
25 transportation and land use in their master



1 plan.

2 Right now under the law the land  
3 use element of master plan is mandatory, but the  
4 circulation element is not. Many communities do  
5 not have adequate circulation element. We are  
6 working very heavily around the state to make  
7 those two things integrate and talk to each  
8 other so you can actually create places that  
9 support less transit. We are working heavily  
10 with municipalities around the state to link  
11 their transportation and land use systems  
12 together.

13 A new product that has a lot of  
14 appeal speaks very directly to communities. As  
15 an implementation tool for that we are actually  
16 doing street design guidelines for a full range  
17 of different street types and using this to  
18 educate local engineers and planners about one  
19 size does not fit all. You can have different  
20 ranges of streets and the way that they work  
21 together with the particular land uses around  
22 them is very important. This book is just about  
23 to be published. This was a bi-state product,  
24 both Pennsylvania and New Jersey DOT worked on  
25 this together. It's been very, very successful.

1 A little bit more close to home of interest to  
2 you I think will be our port project and our  
3 overall strategy for capital investment.

4 As I said, we are not really in  
5 the highway building business anymore. In fact,  
6 a few years ago we made a commitment that less  
7 than four percent of our overall capital program  
8 would be for new capacity and roadways. In  
9 fact, it is like two percent or one and a half  
10 percent these past couple years. It is expected  
11 to remain very low.

12 The answer is we have enough  
13 highways, we just need to make them work better.  
14 In the area of north Jersey around the ports we  
15 are looking very heavily though at truck and  
16 rail infrastructure. This is a map of the  
17 portway projects. You can see there is a whole  
18 bunch of little ovals and yellow swatches and so  
19 on. Those are individual highway development  
20 projects or rail development projects that seem  
21 to move goods more efficiency into and out of  
22 the port. Our main goal of course is to get as  
23 much as we can into the rail system, but that's  
24 a very, very tough thing to do.

25 Finally, I will leave you with a

1 really cool kind of new technology you may have  
2 seen. This is idle air. It basically turns  
3 your truck cap into a hotel room. All of this  
4 stuff that is listed here including On Demand  
5 movies, land line, Internet service, long  
6 distance phone service and air conditioning and  
7 so on are available through one plug in at these  
8 places. There are only two right now in New  
9 Jersey as I understand it, but we are working on  
10 building more of these. Idle Air is a private  
11 installer, however, we have funded and helped  
12 technically with the installations. I believe  
13 that's all, thank you very much. I'd be happy  
14 to take questions.

15 MR. EGENTON: Thank you, Brent,  
16 and just to keep on track, we will take one or  
17 two questions from the Council. Any Council  
18 members have questions?

19 Joyce.

20 MS. PAUL: Earlier we heard  
21 Mr. Matheussen talk about the plan of the PATCO  
22 extension. They talked about various potential  
23 alignments. How closely is DOT working with  
24 them to help them determine which is the best  
25 way and does DOT have their obvious preferred

1 allotment?

2 MR. BARNES: Even though my phone  
3 is turned off, the commissioner is going to call  
4 me again on that one.

5 MS. PAUL: You can answer in code.

6 MR. BARNES: DOT is working  
7 closely with PATCO. The study is not at a place  
8 where we have any official recommendations of  
9 any sort at this point. Obviously, there are  
10 alignments that are better than others in terms  
11 of place making. Let me just say that it is  
12 very difficult to make places that are  
13 accessible and livable in the immediate highways  
14 and leave it at that.

15 MR. EGENTON: That is a good  
16 answer. Thank you, Brent, for your brevity.  
17 Tell the Commissioner we appreciate DOT being  
18 here today. Thank you very much.

19 All right, our next speaker before  
20 we break for lunch, we are pleased to have Reema  
21 Loutan here and she's senior staff on the mobile  
22 source team at USEPA region two office in New  
23 York and she is the region two contact for port  
24 and fuel issues. Reema has been involved in  
25 development of mitigation project for dredging

1 emissions such as the retrofit of the Staten  
2 Island Ferry and just of particular note this  
3 Council addressed diesel emissions a few years  
4 ago and interestingly Reema has also  
5 commissioned the study performed by EPA's office  
6 of research and development which demonstrated a  
7 continuous idling of a school bus for more than  
8 three minutes emitted more soot than at restart.  
9 Thank you for joining us today.

10 MS. LOUTAN: Good morning. I'd  
11 like to thank you for the opportunity to be here  
12 today. I will touch a little bit on ports very  
13 little and airports, sorry, and most of my  
14 presentation will be on ports. I will touch on  
15 some EPA regulations and our partnerships and  
16 the EPA ports vision mission and strategy for  
17 moving ahead with ports.

18 So basically, the mobile sources  
19 of airports that we look at are the aircraft,  
20 some infrastructure such as shuttle buses,  
21 ground support equipment and maintenance and  
22 construction vehicles. Within the region we  
23 mainly work with voluntary initiatives around  
24 the airports. We have worked with the Federal  
25 Aviation Administration on their voluntary

1 airport low emission program.

2 I know recently the Port Authority  
3 of New York and New Jersey received some funding  
4 to purchase hybrid shuttle buses to operate at  
5 the airports in the area. We were very happy to  
6 see that project get funded.

7 I am going to move straight into  
8 the ports just to keep things moving along.  
9 Just a general map of the ports in our area.  
10 This map does not show Puerto Rico or the Virgin  
11 Islands which region two is also responsible  
12 for.

13 Some key issues that we are  
14 looking at right now, what are waterborne  
15 freight shipping coming in from overseas is  
16 expected to double by 2020. The ports spend  
17 about 2.8 billion in capital improvements in  
18 2001 and 2002 and cruise ships are becoming an  
19 increasing factor in ports in our area.  
20 Importantly, vessel sizes are increasing. I  
21 know there is a vessel planned that is going to  
22 hold up to fifteen thousand containers. That's  
23 definitely coming to New York and it is good in  
24 a way because it reduces two ships coming in,  
25 but also you still have that one ship. It is

1 going to have emissions that go along with it  
2 and also the trucks are going to need to get  
3 those containers where they need to go. Because  
4 of the vessel size increasing, there is dredging  
5 in the harbor, there is dredging in the New York  
6 harbor, there is dredging in the South  
7 Jersey/Phili area as well.

8                   There is community pressures that  
9 are being faced by the ports and a lot of the  
10 ports are not attainment areas. New York and  
11 New Jersey and the Long Island area is  
12 definitely a non-attainment for NOx, PM, lower  
13 maintenance area for carbon monoxide and  
14 security issues are something that come into  
15 play that we have to keep in mind.

16                   I just want to quickly go through  
17 some inventory. This is an overview for  
18 nitrogen oxide in 2001. Highway trucks were  
19 dominating our mobile source inventory at  
20 sixty-two percent. By 2030 it is going to be  
21 the category three. Marine vessels and that is  
22 basically the ocean going vessels. For  
23 particulate matter highway vehicles were  
24 dominating the nonroad vehicles were also  
25 dominating, but again in 2030 it is going to be

1 the ocean going vessels and this phenomenon is  
2 seen incredibly with the sulphur oxides and that  
3 was mentioned in Peter's presentation  
4 previously. 2030 looks at ninety-five percent  
5 sulphur oxide contribution from ocean going  
6 vessels.

7                   What are some regulatory programs  
8 that we are working on. EPA realizes that  
9 mobile source programs are a key tool for  
10 improving air quality at the ports and  
11 previously we have regulated highway trucks and  
12 nonroad engines. There are sulphur diesel  
13 required for on road engines and nonroad which  
14 does include locomotives and category one and  
15 two vessels. Ultra low sulphur we definitely  
16 seen increased action from the ports to help  
17 clean up their emissions and we do realize that  
18 there is a lot more that can be done and we are  
19 here to help the ports do that. EPA recently  
20 signed their no locomotive and marine program  
21 and I will talk a little bit more about that.

22                   This slide is just a snapshot of  
23 where our emissions are. The tiny red dot, the  
24 lower left-hand corner, that trucks will be in  
25 2020 and nonroad engines in 2014 and we would



1 like to get there with our marine and locomotive  
2 engines. The orange circle that is just  
3 representation of the international maritime  
4 organization NOx limits. As I mentioned EPA  
5 recently signed our locomotive and marine rule  
6 and what I'd like to note about that rule, there  
7 are basically three parts to it.

8                   There is an engine remanufacture  
9 standard for existing locomotives and marine and  
10 we thought that was very key because while our  
11 standards mainly covered new engines, there are  
12 still that legacy fleet out there that needs to  
13 be taken care of and with these remanufacturing  
14 standards we believe we are going to take a big  
15 hit and reduce their emissions.

16                   So then we also have tier three  
17 standards for newly built locomotive and marine  
18 engines as well as tier four standards. What  
19 I'd like you to know about the tier four  
20 standards, they will require an after treatment  
21 technology to meet the EPA standard and that  
22 after treatment technology is similar to a  
23 selective catalytic reduction technology as well  
24 as a diesel particulate filter and to make the  
25 pair legal right now the 2007 trucks are using a

1 diesel particulate filter in order to meet EPA  
2 standards. Ocean going vessels as I showed from  
3 the inventory, ocean going vessels are  
4 definitely the target coming up.

5 International Maritime  
6 Organization as Peter mentioned, they proposed a  
7 couple of standards to reduce the sulphur fuel  
8 for the ships. In sulphur emission control  
9 areas that could be as low as PM by January of  
10 2015 and Marpol, that is the legislation the  
11 U.S. has yet to ratify, but the EPA is very  
12 much behind the ratification of that program.  
13 We believe it is necessary to move forward with  
14 the regulation of ocean going vessels and we are  
15 also working on our own ocean going vessel  
16 industry standards.

17 Some additional actions that are  
18 going on in a lot of these are being done at the  
19 ports right now. For example, they are using  
20 nonroad engine, nonroad equipment and greatly  
21 helping to reduce emissions from that category  
22 of port vessels. Speed reduction known as  
23 vessel speed reduction with the ocean going  
24 vessels slow down as they approach the dock and  
25 that greatly reduces emissions. There's a

1     statistic provided by Star Crest Consulting out  
2     in Seattle. If a ship goes from sixteen knots  
3     down to about twelve knots, they can reduce  
4     nitrogen oxide by a hundred and thirty-five tons  
5     in a thousand round trips and we are working on  
6     a program with Port Authority to put that in  
7     place. We are working to get some buy in from  
8     the ocean going vessel operators. Cold ironing  
9     is an alternative marine power and another  
10    program that we are working on with the Port  
11    Authority of New York and New Jersey. We are  
12    looking to get something out in Brooklyn for the  
13    cruise terminal there and I know there is a Port  
14    Authority representative speaking later and  
15    hopefully he will cover some of that.

16                 The hydraulic hybrid we are also  
17    working on that with Port Authority and APM  
18    terminals and what that is it's taking out --  
19    it's hydraulic hybrid for yard tractor so it  
20    will rely on a lot less diesel fuel and we are  
21    looking, hoping to see about a fifty to sixty  
22    percent reduction in fuel consumption.

23                 I just want to keep going really  
24    quickly here. So just clean ports USA, that is  
25    EPA's program. Through that program we are

1 hoping to develop a lot of partnerships with  
2 ports. We believe working together with the  
3 port is the best way to get these projects  
4 underway and to be able to address the emissions  
5 that need to be addressed. One thing we do  
6 focus on is that the technology has to be cost  
7 effective in order to be effective because the  
8 ports aren't going to buy into that unless it is  
9 something that we can show you are getting the  
10 biggest bang for your buck. It is something  
11 that we believe in as well. We do have a  
12 website and on that website we are looking to  
13 showcase some of the good projects across the  
14 nation. We are also recognizing the port  
15 authorities for their giant step towards  
16 reducing their operating pollution and also the  
17 clean ports USA program is looking to verify  
18 technology so we can move forward with reducing  
19 pollution.

20 In September 2007, region two  
21 hosted the EPA regional administrators as well  
22 as the assistant administrators to talk about  
23 the agencies port strategy, the approach to  
24 ports and to save time, it is in the folders  
25 there, but basically we want our ports to be

1 environmentally and socially responsible, but  
2 also economically viable, safe and secure.

3           Basically, our port strategy  
4 consist of six themes. We are covering clean  
5 air and affordable clean water, healthy  
6 communities with local environment, port  
7 communications enforcement and also along with  
8 enforcement is compliance assistance. I need to  
9 add that in there because that's very important.

10           So some funding that's become  
11 available and I think that is really key, a step  
12 in the right direction by Congress that is going  
13 to help EPA help the ports. We received about  
14 49.2 million for 2008 and we are looking to  
15 receive a similar amount for 2009. Within the  
16 region itself, we have about 5.4 million dollars  
17 request for proposals on the street right now  
18 and we have identified ports as a priority for  
19 the region. Those proposals are due in June so  
20 if you have any ideas, certainly put them  
21 together and send them on to us.

22           Basically, I just want to say that  
23 cost effective strategies are available today.  
24 Cleaner fuels, the ports are using ultra low  
25 sulphur diesel way ahead of schedule and that is

1 definitely helping to control emissions at the  
2 ports. We definitely have a broad stakeholder  
3 support. EPA is fully behind this and our port  
4 strategy is the way that we are as an agency  
5 organizing our approach to the ports. Here's  
6 just some contact information and if you have  
7 any questions, I will be happy to answer.

8 MR. EGENTON: Thank you Reema, I  
9 appreciate the EPA's input. Just to be  
10 respectful of the time, I am going to use my  
11 authority here as the hearing chair to move  
12 things along. Between me and lunch and you  
13 never get into an angry mob like that. I am  
14 glad you supplied us with your e-mail address.  
15 It is possibly easier for us to communicate to  
16 you through the Council and DEP to get some more  
17 guidance as we move forward and put our  
18 recommendations together.

19 Thank you very much, Reema.

20 MS. LOUTAN: One more thing I want  
21 to recommend. We have a faster freight cleaner  
22 air conference coming up in July. I supplied  
23 you guys with some save the date cards and that  
24 is going to be a major event. It's been held  
25 out in California for the past three years.

1 They have had over eight hundred attendees and  
2 it is a great way to get the industry, the port  
3 authorities, the regulatory partners together to  
4 just talk it all out.

5 MR. EGENTON: That is great. We  
6 will take you up on that offer and hopefully see  
7 you in July.

8 Just a quick announcement for the  
9 Council members and those in the audience.  
10 Lunch for the Council members and the invited  
11 speakers will be up on the seventh floor large  
12 conference room, please join us.

13 The guests and public here that  
14 are in attendance, the DEP has a cafeteria down  
15 at the end of the hall across the lobby so  
16 please partake in the DEP cafeteria and then we  
17 will resume back here promptly at 12:30. We  
18 have some more interesting speakers that we need  
19 to hear from. Thank you very much.

20 (Whereupon, a short recess was  
21 taken.)

22 MR. EGENTON: Next up at bat is  
23 Jay Jones and Jay is here with the South Jersey  
24 Port Corporation. John Matheussen mentioned  
25 you'd be joining us this afternoon, Jay, and you

1 are currently the executive director of  
2 administrative services and Jay also serves the  
3 Port Corporation as the public information  
4 offices ethics liaison officer and the security  
5 officer and, Jay, thanks again for attending  
6 today's hearing.

7 MR. JONES: I didn't prepare a  
8 Power Point presentation. I did present some  
9 remarks written in. They are very poetic, I  
10 won't read them, but I will have to reference  
11 them to keep me organized.

12 Thank you for inviting the South  
13 Jersey Port Corporation back. A background,  
14 quasi-state agency. We have the authority to  
15 develop strategies and operate the marine  
16 terminals in the seven southern counties of New  
17 Jersey. We currently have two deep water  
18 terminals in Camden. We have a small barge  
19 facility in the Salem River in Salem City and we  
20 are engaged right now in preliminary development  
21 of a new terminal in Paulsboro, New Jersey.

22 The current facilities we are  
23 generating through the port four million tons of  
24 cargo. We are not a container facility, we are  
25 a great bulk and bulk facility. We are moving



1 four hundred ships a year through those  
2 facilities. The cargos we handle are we are the  
3 largest plywood port in the country. So likely  
4 some of the wood you get from Home Depot and  
5 Lowe's is from South Jersey port from Camden.  
6 We are the second largest coco bean port on the  
7 east route. We are one of the largest scrap  
8 metal export facilities and all that means that  
9 generates a lot of economic development,  
10 economic activity in South Jersey.

11 Certainly green initiatives are  
12 extremely a priority for us and we started this  
13 a couple years ago. We brought a tenant in,  
14 Saint Lawrence, who brings slag from Italy and  
15 gets a cement product called Gramsend and the  
16 ships would come in at Becker Street and be  
17 unloaded by diesel powered crane and then eighty  
18 thousand trucks a year would have to move that  
19 cargo down to their facility at our other  
20 terminal at Broadway.

21 What we did is we did a clean air  
22 forty million dollar project. We built a new  
23 pier. We bought a seven million dollar  
24 electronic crane and we eliminated those trucks  
25 from running and now the ship pulls up next to

1 their facility, a fully electric crane unloads  
2 onto their conveyer system which is hooded to  
3 keep any particulates down and goes right to the  
4 facility. So that was really a big initiative  
5 when we started looking at this and Reema from  
6 the EPA mentioned about grants and working with  
7 ports. We are, of course, working with the EPA  
8 and New Jersey DEP. We have a five hundred  
9 fifty thousand dollar grant to evaluate our  
10 hundred and sixty diesel power forklifts and  
11 equipment in the port and put out air mission  
12 control units on that equipment.

13 In the meantime, what we have been  
14 doing with that equipment, we employed a fleet  
15 maintenance software program so we can manage  
16 and monitor preventive maintenance and repairs  
17 of that equipment so they are running efficient.  
18 They are not burning up excessive fuel and  
19 keeping emissions down.

20 At our Broadway terminal, we have  
21 a tenant Del monte. It is there largest port in  
22 the world, five hundred thousand tons of fresh  
23 fruit comes through that facility so bananas,  
24 pineapples go right to the supermarkets. They  
25 use electricity for their refrigerator

1 warehouse, but they also have reefer trucks and  
2 we have reefer plugs. The electric that we  
3 provide them through a third party supplier, ten  
4 percent of that is green. We are empowering the  
5 reefer plugs. So the twenty thousand reefer  
6 trucks are moving through that facility and so  
7 we think an environmental sound green initiative  
8 is to look at how that electricity is brought to  
9 that tenant the other tenants at our facilities.

10 The Broadway terminal was the  
11 former New York Shipbuilding Corporation and  
12 when we took that over in 1968, we also enjoyed  
13 the right to resell electric power. So we are  
14 investigating not only taking the two million  
15 square feet of warehouse that we have and put  
16 solar power panels on that, but we are looking  
17 at other ways to create an energy park to look  
18 at a cogen facility because the trash facility  
19 adjacent to it, to provide electrical power,  
20 electric to users to have that clean process.

21 Quickly, back to that Saint  
22 Lawrence cement process, we have electric crane,  
23 electric conveyer right adjacent to it. Reema  
24 mentioned about cold ironing, it is alternative  
25 maritime power we are looking at that. It is a

1 challenge because most of the ships have to be  
2 expensively retrofitted and expensive equipment  
3 on the terminal. So what you have to look at  
4 are ships that are going to return and be  
5 frequent and work with the steamship lines to  
6 get that moving along. We are looking to do  
7 that with Saint Lawrence activity at the  
8 Broadway terminal.

9                   To keep on point here, looking at  
10 the Paulsboro Marine Terminal development, as we  
11 look to develop new terminals along the Delaware  
12 River we have identified Brownfield sites and  
13 Paulsboro marine terminal, the BP facility and  
14 Exxon was right for port development. We are  
15 also looking at a facility in East Greenwich and  
16 one in Deep Water and as we develop and plan  
17 those new terminals. We are looking at green  
18 initiatives from the bottom up from stormwater  
19 to electrical power. The A & P is even looking  
20 at what we are doing at Beck Street and Broadway  
21 with those diesel equipment and the forklifts we  
22 are looking at may be propane powered forklifts.  
23 The problem is heavy steel coils. You require  
24 very large piece of equipment so we are looking  
25 at it. I believe the port of Los Angeles has

1 some propane powered twenty ton forklifts so we  
2 are looking to put those in place not only at  
3 Becker Street and Broadway, but also the new  
4 port in Paulsboro.

5                   So basically we are looking at  
6 technologies to green the port, but there's a  
7 cost issue with that as some of the earlier  
8 speakers mentioned. We are just trying to  
9 implement cost effective solutions that enable  
10 the port to bring emission while maintaining  
11 long and near term impacts surrounding the  
12 community. The trend or the sustainable port  
13 model for ports is environment, community and  
14 finance and certainly our partnership with the  
15 community is very important.

16                   I believe Carrie Sargeant with  
17 Camden will be here later today. We partnered  
18 with them on one of our properties. We allowed  
19 them to come in and build a nine hundred foot  
20 long what I call an environmental berm which  
21 they are planting trees. It will help filter  
22 out particulates carried in the air and, of  
23 course, the river to Philadelphia and the rest  
24 of the way and also help reduce the urban heat  
25 zone issue from providing green space.

1                   So I would like to turn around to  
2 any questions and certainly thank the Clean Air  
3 Council for inviting us here.

4                   MR. EGENTON: Thank you, Jay,  
5 appreciate you making the trip up from the  
6 south. Council members, chairman.

7                   DR. BLANDO: I had asked this  
8 question earlier and I am still curious about  
9 you mentioned a large amount of plywood and  
10 fresh fruits that are brought in in bulk and I  
11 know that is required by USDA rules for  
12 fumigating. I am wondering if you could  
13 comment, I am curious, I never seem to get  
14 numbers on how much methyl bromide is used, how  
15 it is used, how it is controlled. I am very  
16 curious about that particular component to the  
17 operation.

18                  MR. JONES: The plywood isn't  
19 treated at the terminal site at all and the  
20 fruit is treated before it gets to Delmonte's  
21 facility. The coco beans whoever are fumigated  
22 in the warehouses on our piers and I don't have  
23 the numbers, but I certainly can get that for  
24 you, how much chemicals are used for coco beans  
25 and I can reach out to Delmonte and get those

1 numbers for you.

2 DR. BLANDO: If you could provide  
3 that, that would be of interest to me. Do you  
4 also by any chance know the fumigating, does it  
5 go to a control device or just exhaust into the  
6 atmosphere?

7 MR. JONES: With coco beans they  
8 are on pallets and bags and they are stacked  
9 four to eight high and they do cover the beans.  
10 They seal the building up and the company comes  
11 in and releases the gas for a certain amount of  
12 time. So it is actually in the warehouse  
13 facility itself, but they try to keep it under  
14 tarps for the coco beans.

15 MR. EGENTON: Dr. Bielory.

16 MR. BIELORY: Do you have a  
17 quantities overview? I was looking for  
18 quantities of the actual -- when you say several  
19 hundred thousand square feet impact of the use  
20 of the number of trucks, you actually say you  
21 are going to reduce, but do you have the number  
22 of ships, NOx measurements similar to --

23 MR. JONES: We are going into do  
24 an entry audit and we are working to do those  
25 kinds of analysis. We don't have those numbers

1 of what that impact is.

2 MR. BIELORY: How has it been  
3 assessed in the past?

4 MR. JONES: We haven't had at  
5 South Jersey port been tracking emissions from  
6 the operation.

7 MR. BIELORY: You have not?

8 MR. JONES: No, we have not.

9 MR. EGENTON: Pam.

10 MS. MOUNT: I am curious with all  
11 their cargo coming in, does anything go out?

12 MR. JONES: Majority of our cargo  
13 is import. Export is scrap metals about a  
14 million tons of scrap metal. Probably about two  
15 hundred thousand, three hundred thousand tons of  
16 Saint Lawrence cement finish product will go out  
17 waterborne. The rest of that goes out by truck  
18 so the majority of the four million tons is  
19 import.

20 MR. MAXWELL: I just have a quick  
21 question. Where does the plywood come from,  
22 where does the coco come from, where does the  
23 scrap metal go to?

24 MR. JONES: Well, wood products  
25 come from Brazil, Malaysia, Indonesia, even



1 China. Coco beans come from the Ivory Coast,  
2 Indonesia. Scrap metal can go to -- it's  
3 changed over the last fifteen, twenty years. It  
4 is now going to places like Turkey, China are  
5 some of the countries those cargos come and go  
6 to.

7 MR. EGENTON: Thank you, Jay, and  
8 if you could keep in mind to send the Council  
9 through Sonia, your e-mail address so we can  
10 follow up on some of the additional questions we  
11 have.

12 MR. JONES: I sure will.

13 MR. EGENTON: Thank you very much.  
14 Our next speaker we are very  
15 honored to have Susan Bass Levin here and she  
16 was appointed first deputy executive director of  
17 the Port Authority of New York and New Jersey by  
18 Governor Corzine in July of 2007. She's the  
19 senior New Jersey official on the agency's  
20 executive management team that oversees over  
21 seven thousand public employees who operate and  
22 patrol many of the busiest and most important  
23 transportation links in the region including  
24 airports, bridges, tunnels, seaports, rail  
25 systems and the World Trade Center site. Prior

1 to her tenure at the Port Authority, Ms. Levin  
2 served as Commissioner of the New Jersey  
3 Department of Community Affairs. She's  
4 recognized for her creative approaches to  
5 economic and community development. I know as a  
6 neighbor in Vorhees down in South Jersey she's  
7 also the former Mayor of Cherry Hill and I still  
8 call you Commissioner so that is how I am going  
9 to address you. We surely appreciate you  
10 joining us here today on your busy schedule and  
11 certainly look forward to your remarks regarding  
12 the efforts of the Port Authority of New York  
13 and New Jersey.

14 MS. LEVIN: Thank you, Mr.  
15 Chairman and to all the members of the Clean Air  
16 Council. I appreciate your dedicated service  
17 here today. With me today from the Port  
18 Authority are Bill Nertin and Ed Caneese, both  
19 of whom handle environmental issues, Bill in our  
20 port commerce group and Ed in our aviation  
21 group. Also with me are Tina Lado who is the  
22 director of government and community relations  
23 and Marie Tershon also in that group.

24 I am here today to speak to you on  
25 behalf of the Port Authority of New York and New

1 Jersey. For those who may not know, the Port  
2 Authority is a bi-state agency that owns,  
3 operates and manages a vast transportation and  
4 trade network. It includes aviation, maritime  
5 and rail facilities, vehicular, Hudson River  
6 crossings and real estate in New Jersey and New  
7 York. With five airports, that is Newark  
8 Liberty International, Teterboro in New Jersey,  
9 JFK, Laguardia and Stewart in New York. Four  
10 bridges, the George Washington, the Outerbridge,  
11 the Bayonne and the Gothels. Two tunnels, the  
12 Lincoln and Holland. Two bus terminals, Cano  
13 cargo and marine terminals in Port Elizabeth for  
14 the Jersey line. The Path rails system and  
15 World Trade Center site in Lower Manhattan. The  
16 Port Authority is certainly uniquely positioned  
17 to improve the quality of life for people who  
18 live and work in the region.

19                   The Port Authority begins a new  
20 era of intense investment in the regions trade  
21 and transportation infrastructure. We have made  
22 a parallel commitment to ensure that environment  
23 sustainability is paramount to the agency.  
24 Operating our facilities in a way that conserves  
25 the regions resources for future generations.

1 The Port Authority's ten-year capital plan  
2 adopted just a few months ago is a guiding  
3 framework for our efforts to increase energy  
4 efficiency, reduce greenhouse gases, improve our  
5 environment and expand the capacity of mass  
6 transit. Certainly a tall order. We know it is  
7 not enough to build, we must do so in a way that  
8 respects the environment and our communities.

9 In 2007 our chairman, Tony Kosh,  
10 announced that the Port Authority would reduce  
11 greenhouse gas emissions related to Port  
12 Authority facilities by eighty percent from 2006  
13 levels by the year 2050. Just last week our  
14 Board of Commissioners adopted an environmental  
15 sustainability policy with the following goals.

16 First, the Port Authority  
17 committed to reduce greenhouse gas emissions at  
18 its facilities by five percent annually.  
19 Through improvements resulting from capital  
20 investments and changes in operations. Second,  
21 we committed to establishing a goal of net zero  
22 greenhouse gas emissions from our own operations  
23 by 2010. Third, we will encourage our  
24 customers, our tenants and our partners because  
25 we are, in fact, both a landlord port and a

1 landlord airport. So we will encourage our  
2 customers, tenants and partners to conduct their  
3 businesses in a more sustainable way and,  
4 fourth, we will develop strategies that reduce  
5 the risk posed by climate change.

6 In furtherance of our  
7 sustainability agenda, we have expanded our  
8 program of environmentally responsible clean  
9 fleet vehicles at all of our facilities. We are  
10 committed to the installation of energy  
11 efficient LED lighting on the George Washington  
12 Bridge and on the tunnels. We are installing  
13 advanced energy metering systems at all of our  
14 facilities to allow for efficient energy  
15 management. We provided funding for open space  
16 acquisition for certain pieces of land in the  
17 Hudson Raritan estuary resource program. We are  
18 partners with New Jersey Transit in the building  
19 of the Art Tunnel by three billion dollar  
20 commitment from the Port Authority to build a  
21 new commuter rail tunnel under the Hudson River  
22 doubling passenger capacity and reducing  
23 trans-Hudson auto trips by more than thirty-five  
24 thousand cars. We are investing a record 3.3  
25 billion in the Path rail system that will expand

1 capacity by thirty percent. We are working  
2 closely with the DEP on a number of initiatives  
3 and really that's just the beginning.

4           So let me turn now specifically to  
5 our seaports and airports which this committee  
6 is focusing on today. First are seaports. The  
7 seaports of New York and New Jersey which are  
8 actually the third largest in the country are an  
9 economic engine. Handling a record one hundred  
10 sixty-six billion dollars of cargo in 2007  
11 creating opportunity with more than two hundred  
12 forty thousand jobs, twelve billion in wages,  
13 six billion in taxes. With increasing cargo  
14 volumes projected needed in order to satisfy  
15 growing consumer demands, the challenge we face  
16 is how do we accommodate cargo growth that we  
17 want with all the economic benefits that it  
18 brings, but doing so in a way that protects our  
19 environment and quality of life for people who  
20 live and work in communities near the port.

21           Our key focus in facing that  
22 challenge is on improving air quality and  
23 finding ways to reduce port air emissions. To  
24 offset increase air emissions that result from  
25 the dredging equipment used in the harbor

1 deepening project, the agency developed the  
2 ferry retrofit and marine vessel engine  
3 replacement program. That enables ferry and tug  
4 operators to replace or retrofit their older  
5 diesel engines with cleaner engines. We have  
6 contributed fourteen million dollars to marine  
7 diesel retrofits. It is estimated as a result  
8 of this program, nitrogen oxide emissions have  
9 been reduced by four hundred tons per year.

10 We have gone on record recently at  
11 the request of the DEP partnership with the DEP  
12 supporting regulation that will mandate a  
13 reduction in diesel emission from marine  
14 vessels. We know that to make a long-term  
15 impact, we have to understand the sources of air  
16 emission and measure the reductions. Therefore,  
17 we have conducted very detailed and specific air  
18 emissions inventories of the primary sources of  
19 air emissions from the Port Authority's port  
20 facilities. We have taken the inventory so we  
21 can measure and, therefore, work to reduce.

22 A detailed cargo handling  
23 equipment emissions inventory that compared our  
24 2002 fleet to our 2004 fleet which had  
25 modernized vehicles showed a thirty percent

1 reduction in air emissions. We will continue to  
2 work to reduce these air emissions and continue  
3 to work to modernize our fleet and cargo  
4 handling equipment.

5                   We recently completed a greenhouse  
6 gas inventory for all of our Port Authority  
7 facilities and we are going to make sure that as  
8 we look at how vehicles get back and forth, how  
9 do facilities get built, that what we do looks  
10 at how to reduce greenhouse gas. We know too  
11 that travel by trucks to Port Authority  
12 facilities contributes a large amount of  
13 greenhouse gas emissions. We have developed  
14 several initiatives to address this problem.

15                   One, Express Rail. Two, Smartway  
16 Plus and I will talk about this momentarily.  
17 Three, reducing the length of off terminal trips  
18 and, four, reducing on terminal congestion. I  
19 am going to discuss them briefly. We can  
20 certainly provide more information to you if you  
21 desire and we have some experts here, Bill, on  
22 some of these initiatives.

23                   Express Rail is a comprehensive  
24 rail program that creates a dedicated on dock  
25 rail facility at each of our container



1 terminals. With Express Rail the container  
2 comes off the ship, it is put right on a rail  
3 car that connects to the rail lines and so no  
4 truck transport is necessary. This on dock rail  
5 capacity has significant environmental benefit  
6 as it saves 1.7 trips per container. It is  
7 helped us realize our goal of accommodating  
8 increase cargo volume with less congestion and  
9 fewer emissions. We started Express Rail in  
10 1991. We estimate that when it is finally  
11 completed in 2011, it will take approximately  
12 2.5 million trucks off the road, but just this  
13 past quarter we have seen a twenty-one percent  
14 increase in cargo carried by Express Rail as  
15 compared to the first quarter of 2007. We  
16 estimate that's taken a hundred and forty-two  
17 trucks off the road just in this quarter. So as  
18 cargo containers continue to expand, Express  
19 Rail continues to expand giving us an  
20 environmental benefit along the way.

21 Second program I mentioned is  
22 Smartway Plus which is sponsored by the United  
23 States Environmental Protection Agency. We are  
24 working in partnership with the USEPA. It is a  
25 program to offer low cost loans to finance

1 acquisition of new trucks so that they can be  
2 equipped with special particulate matter that  
3 will, therefore, cost the trucks much less over  
4 the long haul. The program includes  
5 installation of certain upgrade kits to achieve  
6 a twenty to ninety percent particulate matter  
7 reduction. We are working with lenders and  
8 other funding sources so we can promote this  
9 program and make the trucks serving the port  
10 more environmentally friendly.

11 Third, port fields. We have  
12 partnered in the New Jersey economic development  
13 agency in our port fields initiatives to  
14 establish nearby port warehouse and distribution  
15 centers on former industrial sites. This will  
16 help us clean up the former industrial sites.  
17 It will also help you provide warehouse  
18 facilities and distribution centers near the  
19 ports. This redevelopment reduces vehicle miles  
20 traveled by trucks that serve our marine  
21 facilities and, therefore, reduces energy  
22 consumption once again. We are studying the  
23 feasibility of a virtual container yard to  
24 reduce dead head truck trips to pick up empty  
25 containers.

1                   The fourth area is to reduce on  
2 terminal congestion. We are a landlord port as  
3 I mentioned and in addition to improvements in  
4 our agency, we are working with our terminal and  
5 warehouse operators who have taken voluntary air  
6 reduction initiatives such as installing  
7 electric cranes or reorienting the terminal  
8 footprints to make them more efficient. In  
9 other words, dealing with traffic on the ports.  
10 Installing electronic gates and spending gate  
11 hours to reduce congestion. Installing solar  
12 panels at a warehouse at the Elizabeth Port  
13 Authority marine terminal. Using ultra low  
14 sulphur diesel fuel in our cargo handling  
15 equipment, establishing a green practices task  
16 force with our tenants. Implementing a no  
17 idling policy at our terminals and participating  
18 in a pilot program to evaluate the operational  
19 performance of hybrid yard tractors at both the  
20 APM container terminal in Elizabeth and New York  
21 container terminal in Staten Island.

22                   It is important to note that we at  
23 Port Authority can't solve this problem alone.  
24 Port Authority working with DOT, DEP and various  
25 New York City and state agencies are hosting the

1 first ever faster freight/cleaner air conference  
2 on the East Coast in July of 2008. This  
3 conference will focus on identifying solutions  
4 and resources to improve operation in the  
5 freight movement industry in order to reduce air  
6 emissions. We are also working with the port  
7 Rotterdam to sustainable port partnership to  
8 organize the C40 world ports climate conference  
9 scheduled for July of '08 bringing together  
10 leaders from the world's most important ports  
11 and port cities to sign a world ports climate  
12 declaration and by so doing to subscribe to a  
13 tangible program to reduce greenhouse gas  
14 emissions.

15 In sum, in our seaports we know  
16 that our ports are continuing to grow and that  
17 is great news for our economy, however, we  
18 realize that to be successful we must be a  
19 sustainable port and that means finding ways to  
20 accommodate port growth that also protects the  
21 environment.

22 So let me shift from the water to  
23 the air and talk to you for a few moments about  
24 airports. Addressing air quality issues at  
25 airports is indeed a task. Our airports are

1 brimming with customers, with traffic and cargo.  
2 Again, great economic news for the region, but  
3 presenting practical and environmental  
4 challenges.

5                   Our airports served over a hundred  
6 and nine million passenger in 2007. That is an  
7 increase of five percent over 2006 levels. Like  
8 our seaports, we are a landlord airport owner.  
9 We own the airports, but we only operate a few  
10 of the terminals. As such we are undertaking  
11 efforts at our facilities and in conjunction  
12 with our tenants to improve air quality in the  
13 area surrounding our airports. I am sure all of  
14 you when you think airports, you think delays  
15 and so do we. If we decrease flight delays, we  
16 will decrease emissions since flight delays  
17 increase aircraft idling time by increasing  
18 runway congestion.

19                   The Port Authority authorized a  
20 flight delay task force that brought together  
21 all members of the industry and consumer groups  
22 and recommended seventy-seven initiatives to the  
23 Federal Aviation Administration to increase  
24 capacity and reduce flight delays. We have a  
25 long way to go to to convince the FAA to take

1 the necessary action, but we are hopeful that  
2 with assistance of Congressional delegation, we  
3 will make the right steps.

4 The Port Authority is doing its  
5 part in renovating runway access roads and  
6 increasing the access between those roads and  
7 minimize airport congestion as they approach the  
8 runways. We also recognize that one way to  
9 reduce airport congestion is to acquire another  
10 airport and we did that when we purchased  
11 Stewart Airport in Newburgh, New York.

12 We are working with airlines in  
13 order to get more flights to go into Stewart to  
14 take some of the congestion out of our other  
15 airports. We pledged to make Stewart Airport a  
16 cutting edge environmentally friendly airport  
17 that we plan to develop into the country's first  
18 carbon negative airport. The gates at Stewart  
19 will be upgraded with four hundred megahertz  
20 power and reconditioned air so aircraft will  
21 simply plug in reducing the use of jet fuel as  
22 aircraft are serviced at the gates. We are also  
23 buying hydrogen fuel tugs for the aircraft and  
24 electronic aircraft ground service equipment,  
25 two other great technologies and opportunities

1 to use low emission technology. We partnered  
2 with the Polytech Institute to develop proposals  
3 and new initiatives to make Stewart a test bed  
4 for renewable technology. This is an important  
5 example of the new era of growth at the Port  
6 Authority, expansion married to sustainability.

7 In order to reduce emissions, we  
8 know we have to know the status quo just as we  
9 need to know about our seaports where our  
10 emissions are coming from and at what levels.  
11 Therefore, we have embarked on an effort to  
12 measure air emissions from the aircraft from  
13 ground service equipment and cars using a  
14 computer modeling process.

15 Our commitment to environmental  
16 sustainability means reducing emissions from all  
17 of those sources and finding ways to continue to  
18 expand in a greener more sustainable way. We  
19 are members of the EPA, FAA emission reduction  
20 stakeholder for airports which is made up of  
21 representatives from engine makers, aircraft  
22 manufacturers, the government all working  
23 together to promote lower emissions. To make  
24 our airports more sustainable, we now have  
25 greener buses which we have added to the shuttle

1 fleet in our airports, Twenty-one hybrid diesel  
2 electric buses and thirty clean technology  
3 diesel buses. For the first time ever at an  
4 airport we are using geothermal energy to power  
5 one of our airport buildings. That project is  
6 currently underway.

7           We are replacing inefficient  
8 baggage handling equipment with electric energy  
9 efficient equipment. We have a hundred and  
10 fifty compressed natural gas vehicles at our  
11 ports using geothermal energy and certainly Air  
12 Train at Newark and JFK is significantly  
13 reducing vehicle miles traveled at those two  
14 airports. If you haven't used Air Train, I  
15 would strongly encourage you to.

16           Our tenants at the airports have  
17 made strides towards improving air quality too.  
18 At Newark's Terminal C, Continental Airlines has  
19 modified jet bridges to supply reconditioned air  
20 and power to aircraft parked at the gates.  
21 These bridge modification provides heating and  
22 cooling of the airport and allow the aircraft  
23 electrical systems to be operational. These  
24 measures reduce emissions and fuel consumption.

25           Continental also added winglets to



1 many of its planes lowering aircraft drag and  
2 resulting in up to a five percent reduction in  
3 emission and noise. Delta shuttle recently  
4 converted its entire fleet of ground service  
5 equipment at Delta to electric equipment.  
6 Continental is looking to do the same thing at  
7 Newark. At Teterboro, Jet Aviation is  
8 installing solar panels on the roofs and First  
9 Aviation has installed a fuel farm in its  
10 facility.

11                   So once again, we are always  
12 looking for ways to introduce new technologies.  
13 Yes, we know we still have a long way to go and  
14 we are committed to continuing air quality. At  
15 Teterboro Airport, the Port Authority work  
16 closely with the Meadowlands Commission and New  
17 Jersey DEP to find an air quality study that was  
18 completed earlier this year. We also announced  
19 that we ask a Teterboro noise abatement advisory  
20 committee known as TANAC which is an independent  
21 panel of local and elected officials to create  
22 an air quality committee to examine this issue  
23 in depth and deliver recommendations. Along  
24 with our tenants, we have invested over a  
25 hundred million dollars in capital projects that

1 have an environmental benefit at Teterboro  
2 Airport including developing a more efficient  
3 taxiway and runway system. The taxiways and  
4 runways now intersect at less acute angles.  
5 Exit and enter runways with much greater  
6 efficiency resulting, again, in less ground run  
7 up, fewer emissions, less noise. Aircraft  
8 queues are shorter further reducing emissions  
9 and noise and idle for less time in part because  
10 of our departure clearance e-mail system. This  
11 program actually notifies pilots they have been  
12 cleared for takeoff by e-mail so they don't run  
13 their engines unnecessarily again decreasing  
14 emission and noise. At Teterboro we purchased  
15 hybrid vehicles and we have a program to install  
16 solar panels measuring a hundred and fifty  
17 thousand square feet.

18                   So in conclusion, let me just say  
19 our ports and seaports are busy and crowded and  
20 our regional economy depends on that growth.  
21 However, even as we move ahead to implement our  
22 new building agenda, we recognize the need for  
23 new approaches to the way we conduct business.  
24 Environmental sustainability is absolutely vital  
25 to the future of our region. The environmental

1 challenges at airports and seaports is to  
2 continue to meet current demand and grow in a  
3 way that improves and reduces the environmental  
4 impact. We look forward to continuing to adopt  
5 new innovative strategies in our push for  
6 long-term sustainability and we look forward to  
7 working with New Jersey state government and  
8 agencies like DEP as we move forward together.

9 Thank you very much to this  
10 Council for all of your good work. We look  
11 forward to working with all of you.

12 Thank you.

13 MR. EGENTON: Thank you,  
14 Commissioner. Do you have the time to take a  
15 few questions?

16 MS. LEVIN: I will try, but  
17 luckily I have Bill and Ed here.

18 MR. EGENTON: First, I want to say  
19 that was an excellent presentation. There was a  
20 component from this morning that some of my  
21 colleagues were mentioning about what is going  
22 on on the ground and everything and you really  
23 filled in the gap there very nicely so I  
24 appreciate that very extensive update of what  
25 your agency is doing.

1 MR. ZONIS: Thank you for the  
2 presentation. I wanted to ask about Express  
3 Rail. One end is on the dock, what is on the  
4 other end, a warehouse or is it the main U.S.  
5 rail.

6 MS. LEVIN: The main U.S. rail  
7 system. It basically takes it from the dock and  
8 connects it to the rail system so that the cargo  
9 container stays on the rail the whole time.

10 MR. ZONIS: You can ship a cargo  
11 box from the port directly to a customer in  
12 Albany for example?

13 MS. LEVIN: That's correct which  
14 is one of benefits. Obviously, it is an  
15 environmental benefit. It also makes our port  
16 much more competitive because when shippers are  
17 looking at what the cost involved, they can look  
18 to the ground transportation or warehousing, but  
19 actually literally taking it anyplace on the  
20 East Coast or even out to the midwest.

21 MR. ZONIS: Thank you.

22 MR. EGENTON: Dr. Zhang.

23 MR. ZHANG: My personal experience  
24 in the airports in Bangkok --

25 MS. LEVIN: That's never a good

1 start.

2 MR. ZHANG: In Bangkok the new  
3 airport you have a major airlines, they are very  
4 restrictive. It is 5:30 in the morning  
5 sometimes they push out of the gate 5:25. One  
6 of reasons for the lanes is so aggressive that  
7 part that is huge stay in the airport at the  
8 gate for additional ten minutes, fifteen  
9 minutes. That is not the case in Newark. Seven  
10 out of ten times for a very long time. Can you  
11 comment on why Bangkok can do that. It's  
12 economic incentive or a way to push.

13 MS. LEVIN: Let me say this. I am  
14 sure the airlines would gladly takeoff on time  
15 if they could. So I will start with that. It  
16 doesn't help the airlines economics to be late.  
17 A couple things are different. The key is you  
18 said the new airport in Bangkok. They are  
19 building airports differently. If you look at  
20 our airports facility, they are often close  
21 together. They are shorter and so there are  
22 safety issues in terms of how frequently you can  
23 have planes takeoff. We are constrained in  
24 terms of the growth that is how many additional  
25 planes we have in our airports. We have a lot

1 of regional jets, smaller aircraft. So there is  
2 a number of aircraft, the number of planes  
3 taking off may be larger, but their capacity may  
4 be less.

5                   If you look at international  
6 flights, obviously they tend to be bigger  
7 planes, they carry more people. We also have  
8 here weather issues as anybody knows who travels  
9 if the day starts badly, it just gets worse and  
10 worse and worse throughout the day. So the best  
11 times to travel are early in the morning so that  
12 you can get on a plane and hopefully get out and  
13 our issues, although we clearly have the worst  
14 on time records right now, it is very much a  
15 national problem because if there is a delay  
16 anywhere else, it impacts us.

17                   So I would have to say that I  
18 don't think fining the airlines is the answer  
19 for us. They would gladly takeoff on time if  
20 they could. It is not because their pilots are  
21 late or their flight attendants are late or they  
22 haven't fueled, it's just the logistics of the  
23 airport. Having said that, we clearly recognize  
24 it is a problem.

25                   One of the things that the

1 government is working on is a whole new system  
2 called Nextgen which is the next generation of  
3 computer technology to help with managing  
4 flights in the sky. It is billions and billions  
5 of dollars of investment. Do you know, Ed, how  
6 much by any chance? I don't, but it is billions  
7 and billions and a long-term project. It will  
8 help make it better. In the short-term there  
9 are things we can and should do and things that  
10 we are doing.

11 MR. EGENTON: Just one last  
12 question from Dr. Bielory.

13 MR. BIELORY: Similar to the West  
14 Coast, what are the numbers that actually at  
15 present time transfer by rail. It is  
16 twenty-five percent on the West Coast. What is  
17 it here and what I will say the intent and  
18 growth of that number, is it also going to go to  
19 thirty-five percent over what period of time?

20 MS. LEVIN: It is about fifteen  
21 percent now that goes by rail. As we continue  
22 to expand our capacity of Express Rail, we  
23 expect that it will continue to increase. We  
24 would hope to get up to about thirty percent  
25 directed by rail.

1                   MR. BIELORY: Right off the boat  
2 right to the rail and the maximum is  
3 approximately thirty percent that you think you  
4 could maximum out at?

5                   MS. LEVIN: When it is completely  
6 done.

7                   UNIDENTIFIED SPEAKER: There also  
8 is that demand to support that and what we  
9 continue to believe that we are going to have  
10 that continued demand and we will be able to  
11 increase that mode share, if you will, of the  
12 rail to upwards of twenty-five to thirty  
13 percent.

14                   MS. LEVIN: Remember, much of  
15 goods go to within this region so they might go  
16 by truck because they are not going anyplace by  
17 rail.

18                   MR. BIELORY: What percentage  
19 actually go out of the region.

20                   MR. BILL: About thirty percent.

21                   MR. EGENTON: I will just say --

22                   MS. LEVIN: Let me just add one of  
23 thing. We are doing Express Rail is adding  
24 lines, but we are also, for example, adding a  
25 second track so we take in and take out which



1 will help ease congestion and we are certainly  
2 committed to that investment and will continue  
3 to build out rail as we built out new container  
4 facilities.

5 MR. BIELORY: Thank you very much.

6 MR. EGENTON: I was going to add  
7 as we can fuse money into the transportation  
8 trust funds there are projects I know that  
9 you're supportive of like Portway that will help  
10 get more of the trucks off the road and build a  
11 rail system that connects a lot of freight  
12 warehouses. So obviously there is a pressing  
13 need to make sure we have the capital dollars  
14 there.

15 I appreciate the time and your  
16 staff took to be with us today. Thank you very  
17 much, Commissioner, I appreciate it.

18 MS. LEVIN: Thank you very much.

19 MR. EGENTON: All right, our next  
20 speaker is Dr. Monica Mazurek and you are a  
21 assistant professor in the Department of Civil  
22 and Environmental Engineering and Monica is a  
23 member of the Center for Advanced Infrastructure  
24 and Transportation. She directs the air quality  
25 and transportation program with NCAIT. She's

1 one of the core faculty who initiated the  
2 Rutgers Energy Institute serving as the first  
3 associate director and now as a member of the  
4 internal advisory board. Her research interest  
5 include air quality engineering, renewable and  
6 alternative fuels, chemical composition sources,  
7 distributions. We should also note she's a  
8 member of the United Nations inter-governmental  
9 panel on climate change which along with Al Gore  
10 share in two equal parts the Nobel peace prize  
11 for 2007 for their efforts to build up and  
12 disseminate greater knowledge about man-made  
13 climate change and to lay the foundation for  
14 measures better needed to counteract such  
15 change. Thank you for being with us.

16 DR. MAZUREK: Thank you. It is a  
17 great pleasure to be here. What I would like to  
18 describe for you today are current engineering  
19 research programs that are operating within the  
20 New York metropolitan area aimed at improving  
21 air quality.

22 As our center suggests, we are  
23 focused on advanced infrastructure and  
24 transportation. So we are working on cutting  
25 edge tools that need real world examples and we

1 believe port and airports give us some problems  
2 in great abundance to work with with great  
3 interest and vigor.

4           For the past two years, I have  
5 been sandwiched in between two transportation  
6 engineers and I guess there is great result in  
7 that because as an air quality chemist, we have  
8 been discussing where the big holes are in the  
9 transportation models and that is in the  
10 emission inventories and actual emission tests  
11 that give us the fundamental information that  
12 goes into computer modeling.

13           So what I am going to describe  
14 today are our current efforts at improving some  
15 of these state-of-the-art engineering  
16 transportation models for the port. I'm going  
17 to start off with my recommendations in this  
18 slide.

19           It is going to require three key  
20 operations or activities. The first is  
21 monitoring. Although the states of New York,  
22 New Jersey and Connecticut have been engaged in  
23 extensive air quality monitoring programs, have  
24 produced vast amounts of data, these monitoring  
25 locations are insufficient to really monitor

1 what is going on within the ports and the  
2 particular sources. So we need to basically  
3 improve our monitoring capability with better  
4 temporal and spacial monitors.

5                   There have been improvements in  
6 real time measurement technology, particularly  
7 in particulate carbon and I think this is a  
8 technology that would really suit the port very  
9 well. Elemental carbon, organic carbon and PM  
10 mass so that is a recommendation.

11                   Secondly, measurements is very  
12 important. We talk about these emission  
13 inventories, but they are usually based on very  
14 few experiments that actually have the testing  
15 equipment that are testing the different types  
16 of mobile sources that accounts for PM and gas  
17 emissions in the port area. So then the  
18 emission source profiling is going to be key.  
19 We also need to know more about the operations.  
20 I am happy to hear that the Commissioner has  
21 worked with others to develop very detailed  
22 inventories. We certainly would like to be able  
23 to share this information. I think our models  
24 will benefit from these sorts of inventories.

25                   So, finally, the last step is

1 incorporating the emissions information on your  
2 monitoring methods and our operations  
3 inventories into state-of-the-art models. The  
4 new tools that we are using for modeling  
5 emissions and quantifying operations in the port  
6 of New York and New Jersey are key research  
7 activities within Rutgers University.

8                   The first category are  
9 transportation models. The first is micro  
10 simulation level which actually looks at vehicle  
11 population and quantifies emissions as a  
12 function of vehicle speed. The second is  
13 regional scale that looks at large network  
14 operations or transportation networks. The  
15 second area is chemical emissions profiles that  
16 is what Mike has been doing for twenty years  
17 beginning first in southern California with the  
18 organic molecular measuring developed as part of  
19 the California Tech studies that Len Bielory  
20 pioneered and we are now transferring this work  
21 and involved in new studies with New York State  
22 Department of Environmental Conservation on  
23 emissions lab in Albany to generate new profiles  
24 relevant to road vehicles in the metropolitan  
25 area.

1                   Finally, when we get these two  
2 models and profiles working together and they  
3 are totally integrated, we can begin to compare  
4 the existing inventories, these reductions, what  
5 we think is happening with actually ambient  
6 concentrations and that is another area that  
7 they work in along with the states of insuring  
8 New Jersey and Connecticut where our sites are  
9 co-located.

10                   This is a slide borrowed from my  
11 colleague Professor Maria Bolay. This is just a  
12 description of the freight and maritime program  
13 that she's operating in the port. This is to  
14 simulate the large scale network traffic with a  
15 micro simulation tool. I won't go through all  
16 of these bullet points here because I think you  
17 can read them as well as I could, but in general  
18 what is happening is she's got a better  
19 description of what is going on with the trucks  
20 whether they are going coming back empty, going  
21 out loaded, the emissions, idling time, travel  
22 time, vehicle miles traveled, et cetera.

23                   So this type of micro information  
24 improves the model output for the large-scale  
25 traffic network that is in the New York City

1 area. This model is GIS based which gives us  
2 the ability to integrate many different types of  
3 layers of information. This is the state-of-art  
4 to go with data rosters that are basically  
5 embedded within GIS based programs and  
6 transportation systems from the input of the GIS  
7 data. She also has extensive data warehousing  
8 that is capable with the model.

9                   These second traffic engineering  
10 model is the one produced by Professor Klein  
11 Ospay who is doing inter-pollution modeling from  
12 large-scale traffic networks and taking vehicle  
13 population data from the New Jersey Turnpike and  
14 has used the program model which is parallel  
15 micro simulation software to just aggregate  
16 emission estimates based on vehicle type. It  
17 uses the EPA mobile six emission model that is  
18 integrated into programics which simulates the  
19 air pollution levels associated with carbon  
20 monoxide on the site, NOx and emissions of  
21 information each vehicle type. The draw back  
22 with using mobile six, there is no accounting  
23 for different vehicle speeds or loads so it just  
24 has one flat level so we know that is not a  
25 realistic number.

1                   We are working with authentic  
2 emissions data now from the collaboration with  
3 New York State AEL to improve our micro  
4 simulation of air pollution from large-scale  
5 traffic networks. In my own work and my group,  
6 we have been looking at the sources of fine  
7 particles in the New York City area beginning  
8 from about 2000. Because we look at one hundred  
9 individual marker compounds at the parts per  
10 billion level, low parts per billion level, it  
11 takes a lot of time to develop the molecular  
12 marker ambient concentrations. We are looking  
13 at major sources of PM in the New York City area  
14 developing chemical mass balance where we will  
15 then use the chemical mass balance molecular  
16 marker model to provide assessment as to which  
17 sources contribute the most amount of organic  
18 carbons to find mass and then we are comparing  
19 to this emission inventory.

20                   So I can tell you by looking at  
21 these slides, well, motor vehicles that is one  
22 big source category within the metropolitan  
23 area, but one category we are surprised to see  
24 that probably was not accounted for is  
25 commercial cooking where all those french fries



1 and fried chicken are cooked in large amount of  
2 oil which is volatilized and is not controlled  
3 so we think probably a large fraction of PM that  
4 we see is coming from commercial cooking  
5 operations. So without doing our ambient work,  
6 we never would have shown this to our state  
7 agencies. Well, maybe you need to be looking at  
8 when these McDonald's and Burger King and the  
9 ethnic restaurants in the metropolitan area.

10           The receptor modeling and CMB  
11 technology began about twenty years ago when I  
12 was with Glen Cass. At that time he was just  
13 measuring fine particles in California. I was  
14 at UCLA working and we were looking at molecular  
15 markers which are tiny, tiny agents of tracer  
16 molecules associated with organic matter. So  
17 essentially I am a carbon manager looking at how  
18 carbon is generated, what the sources are and  
19 the transport. So, again, he and I were sitting  
20 next to one another at a conference and he was  
21 telling me what he was doing and I was telling  
22 him what I was doing and we realized that we had  
23 the interface, the technology which would allow  
24 us to apportion particles at the molecular level  
25 on suspended fine particles. So that began a

1 collaboration that has lasted many, many years.  
2 Unfortunately, Glen passed away five years ago,  
3 but his work continues on through many students  
4 and post docs who are now faculty.

5                   What we have here is a chemical  
6 species mass balance so if you look at the first  
7 column on the left, we have a total fine  
8 particle mass and we see that at the top it is  
9 about twenty-five that should be micrograms per  
10 cubic meter and if we begin to look at layers of  
11 dominant species within these different  
12 categories in column one, we can blow that up  
13 until finally we are in the right hand column  
14 and we can look at functional compounds that  
15 represent functional groups. Well, this  
16 information alone doesn't tell you what is  
17 coming from sources. In fact, we were stuck in  
18 column four for about a few years until we  
19 realized we had to go out and measure the  
20 emissions sources at the molecular level to  
21 generate these same profiles and emission ratio  
22 for these molecular tracers.

23                   So with this information, we went  
24 out and basically did source testing for about  
25 ten major emission sources within the Los

1 Angeles area. So this is what's lacking in the  
2 metropolitan area. We do not have detailed  
3 information and the profiles, current profiles.  
4 This is probably from the mid-nineties and  
5 earlier. So we are working with really outdated  
6 databases that go into the chemical mass  
7 balance. We really need to improve our profiles  
8 here because our models will be better, our  
9 predictive models will be better. All of this  
10 goes into developing chemical profiles and we  
11 use this chemical profiles in the chemical mass  
12 balance model. Then we can find out roughly how  
13 much of what sources contribute to the PM.

14                   The crux of the matter here is  
15 this relationship where another molecular  
16 tracers related by mass usually in nanograms per  
17 cubic meter to our total carbon is composed of  
18 elemental and organic carbon. With this  
19 information, we can estimate what portion of  
20 fine PM is from what types of sources.

21                   So for the Los Angeles  
22 metropolitan area that was surveyed in the 1982  
23 PM sampling program, about sixty percent came  
24 from diesel, thirty percent came from vehicles  
25 that were gasoline powered and then ten percent

1 from paved road dust. You put this information  
2 into the CMB model and you can basically see the  
3 different receptor sites what is coming from  
4 what page or source of input.

5                   So we have cigarette smoke,  
6 cooking with combustion, et cetera, mobile  
7 sources. So in these different receptor sites  
8 mainly coming from mobile sources, the organic  
9 fine PM. Now stepping forward into the current  
10 century, we are looking at the speciation of  
11 organic apportionment of 2.5 in the New York  
12 City area or SOAP. We conducted the same type  
13 PM sampling category that occurred in Los  
14 Angeles to do the fine PM in Los Angeles with  
15 the New York City area. This is a collaboration  
16 with Rutgers, New York State New Jersey and  
17 Connecticut monitoring groups and our main  
18 questions were what is the organic composition  
19 of the PM 2.5, what are its sources, what are  
20 the components that are emitted directly versus  
21 those which are in the atmosphere or our  
22 secondary PM.

23                   This is a shot of our Elizabeth,  
24 New Jersey site adjacent to toll plaza thirteen.  
25 I am told by my transportation colleague Ken

1 Ospany that two hundred twenty-five thousand  
2 vehicles per day transfer past this point of the  
3 Turnpike. So we think this is a integrated  
4 signal throughout the year of mobile sources to  
5 an area that is very close to the port. This  
6 depicts where our sites were and so although  
7 they are within the metropolitan area, you can  
8 see that they are not directly within the port  
9 itself so we think that better surveillance  
10 could go on. These happen to be state  
11 monitoring sites that have vast measurements  
12 that go on daily, hourly. So we have all sorts  
13 of gas and particle phase information plus  
14 meteorology.

15                   With the SOAP program we selected  
16 in the first year we collected on the one and  
17 three day collection site at Elizabeth, Chester,  
18 West Port and Queens over four hundred  
19 successful filters. We have to composite the  
20 filters into basically monthly composites and  
21 then we are able to extract those particles and  
22 look for the molecular markers with our  
23 sophisticated mass spectrometers within the  
24 chemical labs.

25                   MR. EGENTON: Doctor, excuse me, I

1 apologize. If you could sort of wrap it up in  
2 three minutes time because we are starting to  
3 get into some of the other speakers.

4 Thank you.

5 DR. MAZUREK: This is where we  
6 have basically not enough monitoring sites for  
7 our port area.

8 Going onto emissions we are  
9 working with New York State DEC and we are  
10 getting updated vehicle profiles. These go into  
11 our molecular models. This is an example of  
12 what is being measured in the dynamometer with  
13 the AEL lab, all of the gas and particle phase  
14 species. Roughly seventeen vehicles from  
15 gasoline, diesel and then alternative fuel  
16 vehicles were tested so we have those emission  
17 profiles. This is an example of what's  
18 happening. There is a great disparity between  
19 what is being produced by gasoline vehicles from  
20 2000 onward so we can see that the affects of  
21 control technologies have improved hydrocarbon  
22 emissions. In this example, hybrid has very low  
23 emissions, little bit higher CMG and diesels are  
24 much higher. Just to show you that molecular  
25 level, these extract from all these vehicles.

1 These are chemical compound solutions and if we  
2 look at the distributions, this has seven class  
3 of PAH which are toxins we believe are causing  
4 adverse health affects.

5 This is looking at the  
6 distributions of these PAH in each different  
7 color is a difference compound and ambient  
8 concentration we get different profiles between  
9 gas, diesel vehicles. So this is giving us some  
10 ability to begin to apportion PAH based on  
11 engine type.

12 Finally, key points we have  
13 extensive monitoring projects that basically  
14 give us information about what is going on  
15 around port, but not within the port. Our  
16 transportation models are now being developed  
17 for the micro and large-scale network levels and  
18 this is being improved with emission test from  
19 New York State AEL collaborative work. Our  
20 chemical profiles are giving us new patterns,  
21 updated patterns for emissions, but we need them  
22 for the import vehicles to enhance model  
23 accuracy and finally these vehicle chemical  
24 emission profiles are for for the northeast  
25 state emissions inventories to develop useful

1 state implementation plans and we will be  
2 looking at model output versus observed  
3 concentrations. This is very important for  
4 predicting the impact of motor vehicle emissions  
5 in urban air sheds from transportation systems.

6 Thank you.

7 MR. EGENTON: Thank you, Dr.  
8 Mazurek, appreciate it.

9 All right, trying to get back on  
10 schedule here, our next speaker is a friend of  
11 the Council, Valorie Caffee and Valorie is  
12 director of Organizing and Justice Coordinator  
13 for the New Jersey Work Environmental Council.  
14 Membership lines and environmental community and  
15 labor organizations and individuals. She chairs  
16 the environmental justice advisory council to  
17 the DEP. Serves on the board of Green Faith,  
18 New Jersey interest faith environmental  
19 organization. She's a convener of the New  
20 Jersey Environmental Justice Alliance and is the  
21 co-chair for Labor of the Coalition for Healthy  
22 Ports. Always a pleasure to hear from you  
23 Valorie. Thanks for attending today.

24 MS. CAFFEE: Thank you, I am glad  
25 I had the opportunity to be here. My



1 presentation is sort of like one of three parts  
2 so you have to think of the contributing one  
3 part of a broader presentation and am I supposed  
4 to do something with this little clicker here to  
5 bring up the Power Point.

6                   While we are getting that up, I  
7 also wanted to say too that the environment  
8 council along with the New Jersey Environmental  
9 Federation -- Amy Goldsmith by the way, is the  
10 director and she's also going to be taking some  
11 portion of the presentation today. But we are  
12 very concerned, of course, about the effects of  
13 ports operations on human health and natural  
14 environment. In fact, some of you who have been  
15 on the Council for a while and also the  
16 environmental advisory council may have  
17 remembered the late Demerito Soto and he was a  
18 member of both Councils and talked to us a lot  
19 about the push in the particular diesel  
20 pollution port and about its effects certainly  
21 on the drivers as well as the adjacent  
22 communities.

23                   In fact, when I first met him  
24 eight years ago and it is one of the reasons why  
25 our Council got involved in working in ports.

1 Here we are. Anyway, like I said, also the  
2 conveners of new coalition called the New  
3 Jersey/New York coalition for healthy ports and  
4 certainly, again, our overall mission is to look  
5 at the impacts on human health and the  
6 environment.

7                   So I wanted to take a portion of  
8 this and we have heard some of this today, but I  
9 really kind of want to concentrate on the  
10 Ironbound community. This is a little area of  
11 Newark -- excuse the poor quality of the  
12 slide -- but the Ironbound is located in the  
13 west ward of Newark and as you can see the port  
14 down to your right here is really very, very  
15 close to that Ironbound and, in fact, really  
16 runs into the community.

17                   The port itself is really unique  
18 nationwide in respect that we have a convergence  
19 of the port itself, the Turnpike, freight rail  
20 and airport all in one place and the Ironbound  
21 is an adjacent community kind of also represents  
22 that because it is also bounded by the flight  
23 path of the airport, the port is very close. It  
24 has rail tracks around three sides of the  
25 community and also the Turnpike is there as well

1 as Routes 1, 9, 22, 21 and 78. So there is a  
2 lot of stuff going on and looking at then the  
3 impacts of all of this on this community, we are  
4 really talking about a community that already  
5 has a significant environmental load.

6                   One of the main environmental  
7 polluters in the Ironbound is the incinerator  
8 which is shown by the arrow there in the  
9 background and the incinerator by itself would  
10 be problematic because it is the state's largest  
11 solid waste incinerator and certainly one of the  
12 largest one in the Northeast as you can see  
13 looking at some statistics about the  
14 incinerator. It is burning something like  
15 twenty-eight hundred tons of waste daily and  
16 emits hundreds of pounds of toxic mercury and  
17 dioxin into the air. It violates the Clean Air  
18 Act which also contributes to the non-attainment  
19 of this county which causes the state to lose  
20 money when you have all these counties in  
21 non-attainment.

22                   Then looking at other facilities  
23 in the area, we are looking at over eight  
24 hundred million pounds of toxic air emissions  
25 from various facilities in this community that

1 are dumped onto the residents there. We have at  
2 least ninety of the one hundred twenty-five  
3 streets that have pollution facilities and store  
4 hazardous substances on-site. Approximately ten  
5 to fifteen thousand trucks from the ports  
6 emanate from the ports are located in the  
7 community, are going throughout the community  
8 and then we have over forty-five major chemical  
9 manufacturing plants, industrial plants that are  
10 very near public housing.

11 Just to list a few names of some  
12 of the major companies in the area adding to the  
13 pollution and the amounts of pollution that some  
14 of them produce and you can kind of read this  
15 yourselves. Then we have the legacy of  
16 pollution and current polluters that are leaving  
17 their own legacy. In fact, one of the worst is  
18 actually the Diamond Shamrock Superfund site.  
19 This was the company that produced Agent Orange  
20 during the Vietnam War. It is an enormous  
21 Superfund site that has not yet been remediated.  
22 Again, it is very, very close to lower income  
23 housing community in this area.

24 Also, Doremus Avenue which has  
25 been dubbed chemical row is also here and, in

1 fact, when the new jail was built in this area,  
2 the environmental council did some work with the  
3 barge there and very, very concerned about the  
4 pollution making them sick because they have to  
5 spend so much time in such a polluted area.

6                   Going back to looking at one of  
7 the things that spills over from ports into the  
8 Ironbound community is the neighborhood that is  
9 home to the Terrell housing projects and as you  
10 can see to your left, the cargo containers that  
11 are stored there are now higher than the housing  
12 project homes themselves and, in fact, they are  
13 really engulfing the projects and what we are  
14 really concerned about is the fact that these  
15 containers are now reaching some seven to eight  
16 stories high. Interesting enough, the city  
17 housing authority signed a contract which  
18 allowed more containers to be stored there on a  
19 former playground. Promises were made to  
20 restore recreational space that hasn't  
21 materialized yet unfortunately.

22                   The thing that is also very  
23 troubling in looking at a little snapshot of an  
24 adjacent community to the ports is the  
25 cumulative impact of pollution on the community

1 of population where people are already  
2 vulnerable and already overburdened by  
3 pollution. In fact, this community now has been  
4 dubbed container city because of the  
5 proliferation of these cargo containers that are  
6 spilling into the neighborhoods and this really  
7 increasing. Of course, it takes diesel trucks  
8 to bring the containers to the neighborhood  
9 adding again more significantly to the pollution  
10 load these people already bear there.

11 Also, you can see the smoke from  
12 the incinerator background. They are going to  
13 talk a little bit more about risk to kids. Of  
14 course, we all know about the health links to  
15 diesel pollution. Asthma certainly being one of  
16 the primary one and particularly regarding  
17 children, asthma in some area you could classify  
18 epidemic levels and particularly for children  
19 who live in urban areas. Most specifically for  
20 children of color, Latinos and African-American  
21 children, but we have asthma rates that are  
22 three to four times higher than their white  
23 counterparts and also the death rates associated  
24 with asthma are also much higher as well. So  
25 bringing in additional truck traffic into areas

1 such as the Ironbound community where people are  
2 already saturated with pollution does sort of  
3 adds insult to injury.

4           Interestingly enough, I just  
5 recently read a report and Dr. Mazurek probably  
6 is aware of this because it was some of the  
7 research are involved with the UN, but one of  
8 the things I found most interesting about the  
9 report is some took a position and those of  
10 other environmental advocates here in the state  
11 have been taken for a while, we just can't look  
12 at greenhouse gas and global warming and climate  
13 change just within the context of carbon  
14 monoxide. You have to look at more than that,  
15 co-pollutants.

16           What the report says that black  
17 carbon now is second behind the carbon dioxide  
18 in being a distribution for climate change and  
19 global warming that because the black carbon  
20 particles absorb solar radiation as it enters  
21 our earth's atmosphere and heats things up and  
22 heat as probably most of us know in urban  
23 communities is also significantly of great  
24 significance because people die from the heat  
25 during the summer in urban areas and, again,

1 having so much heavy truck traffic spewing out  
2 diesel admissions into adjacent communities like  
3 the Ironbound and in Elizabeth. So this really  
4 compounds this problem.

5                   Also, looking at the impacts on  
6 workers is something that really hasn't been  
7 talked about today. Workers were so good about  
8 bringing this to our attention. Workers who  
9 often sit in queues for hours as they offload  
10 and unload at the ports and meanwhile all that  
11 diesel pollution is being exposed to and many of  
12 these drivers are becoming ill and these are  
13 drivers who don't have benefits that a lot of  
14 other workers have. In fact, they are  
15 classified as independent owner/operators, but  
16 quite frankly in our opinion, the only thing  
17 they are really independent of is good health  
18 care benefits and other benefits many other  
19 workers enjoy and many of these workers also  
20 live in communities like the Ironbound and not  
21 making very much money as well. So that really  
22 needs to be addressed and we think that the  
23 companies that are hiring should really take  
24 responsibility for them.

25                   Here's a couple suggestions that



1 we have for recommendations. One person talks  
2 about how long these trucks last. Everybody  
3 knows diesel trucks last a long long time.

4 Glad to hear Deputy Director Bass  
5 Levin talk about some changes that hopefully  
6 will be made at the ports, but we need those  
7 things to happen now because less idling is less  
8 exposure to diesel and certainly illness and  
9 less work days and public poor health costs all  
10 of us. Decrease and climate change,  
11 co-pollutants and decreases in premature deaths  
12 that are linked to diesel.

13 By the way, again, what is  
14 interesting to be looking at the cumulative  
15 health impacts that diesel also contributes to  
16 is the fact that diesel pollution is brought  
17 directly into peoples' neighborhoods and also  
18 problems to other places as well. It is a not  
19 source point of pollution, it really gets around  
20 and really makes people very, very ill and can  
21 cause premature deaths. Another --

22 MR. EGENTON: Valorie, I have to  
23 give you the two-minute warning.

24 MS. CAFFEE: Thank you. I am  
25 wrapping up.

1                   Some other recommendations also  
2 have to do with some standards that could be  
3 adopted at the ports of operation and, again,  
4 looking not only to how pollution impacts  
5 communities, but also for the people to work  
6 there and most particularly the drivers because  
7 they are being exposed to such large volumes of  
8 this pollution and, quite frankly, the work  
9 environment council not only should the drivers  
10 be treated like other kinds of employees, but  
11 also have the right to organize if they want to  
12 because other people here who are pro labor or  
13 not, one of the good things about unions is they  
14 have health and safety committees and, quite  
15 frankly, they can be used as a checks and  
16 balance with helping to reduce diesel pollution.

17                   Then lastly, independent  
18 monitoring also needs to take place as well as  
19 independent air sampling and you can even teach  
20 young people to do sampling as these photos show  
21 right here because we have also worked with  
22 young people in doing that and it is a really  
23 good educational project as well as produces  
24 scientifically verifiable data. So I am going  
25 to stop here and turnover the next portion to

1 the next person.

2 MR. EGENTON: Thank you, Valorie.

3 All right, our next speaker is  
4 Christina Montorio and she's a community policy  
5 coordinator with Change to Win and a member of  
6 the Coalition for Healthy Ports. The Coalition  
7 for Healthy Ports is a broad coalition of  
8 environmental labor, faith, community,  
9 environmental justice and business organizations  
10 that seek to create sustainable ports in New  
11 York and New Jersey. Change to Win is a labor  
12 federation representing over six million workers  
13 workers to build the movement to meet the  
14 challenges of global economy and I have had  
15 experience working with Christina in the past  
16 when she worked for Wisniewski and we worked on  
17 general aviation issues. Those are the small  
18 airports. Christina, good to see.

19 MS. MONTORIO: Good to see you too  
20 and I want to thank the Council for choosing  
21 seaports and particularly airports too for  
22 today's agenda and to spend not just an hour  
23 long session, but a whole day talking about this  
24 really important issue. So to all the people  
25 that presented and thank you for taking a lot of

1 time to really dig in. It is much appreciated.

2                   So I am going to talk about --  
3 some of the preliminary slides are a little  
4 remedial in light of Pete's great presentation  
5 this morning. I am going to give a few slides  
6 and then switch to Amy Goldfield with the  
7 environmental federation who is going to present  
8 part of this presentation as well.

9                   About pollution so just as a way  
10 to put port pollution into perspective. This is  
11 a supplied by the national resource defense  
12 council who issued a report called harboring  
13 pollution which shows that ports that you see,  
14 the port of New York and New Jersey is about  
15 double the average power plant. Now, Peter's  
16 slides were a lot more developed on this issue  
17 where ports filled in.

18                   We are going to breeze through a  
19 few of these statistics on how ports line up in  
20 comparison to vehicles which is something that  
21 we are used to talking about pollution from  
22 cars. Then this is the sources within a port  
23 and you can see the circle represents the  
24 quality of pollution for that segment of port  
25 pollutant, heavy trucks, marine vessels clearly

1 the largest. Then this is from Becan Economics,  
2 an economics assessment of reducing emissions in  
3 southern California. You can see from this  
4 slide that trucks are a significant part of the  
5 pollution that comes out of ports in goods  
6 movement. Again, very eloquently stated from  
7 the our colleague from the left coast this  
8 morning.

9                   So we will move into New Jersey  
10 and I will let Amy to come up and talk a little  
11 bit about the problems we face in New Jersey  
12 with regard to non-attainment which is no new  
13 story to the members of the Council.

14                   MS. GOLDFIELD: So this shouldn't  
15 be a training to anybody. This is the  
16 non-attainment areas. As most people know,  
17 these non-attainment goes right to the main  
18 traffic corridors and truck corridors of New  
19 Jersey. The hot spots, especially when you are  
20 looking at diesel pollution, the core of it is  
21 right in the middle of the corridors and is then  
22 as you go out a block or so off the highways or  
23 after the corridors, the diesel levels go  
24 dramatically down. We did, as was mentioned by  
25 the Commissioner, we did do a snapshot study.

1 Dr. Bielory was part of the release of that in  
2 the City of Newark. These are kids who did the  
3 monitoring with us at a variety of locations.  
4 The locations here were Cluster Avenue, a  
5 residential neighborhood really quiet, no  
6 trucks. Weequahic Park right along  
7 Frelinghuysen Boulevard which is a truck  
8 corridor, major park recreation area. Roberto  
9 Clemente ball field, McCarter Highway. This is  
10 where the Commissioner mentioned two hundred  
11 fifty to three hundred fifty trucks per hour.  
12 That is four to five trucks per minute that pass  
13 by this ball field on a hot summer day and Hayes  
14 swimming pool which is the middle of the  
15 Ironbound where it is completely surrounded by  
16 trucks and warehouses and trucks were sitting  
17 there idling. This is a result of some of the  
18 work that was done. It was curbside monitoring.  
19 Again, it was just a snapshot of a hot summer  
20 day.

21 This is the one on McCarter  
22 Highway for PM 2.5. The red line that goes  
23 along the line is Cluster Avenue in Newark and  
24 as you can see, the levels of PM 2.5 as the  
25 trucks go by at any time spike rather high.

1 This is for ultrafine at the Ironbound Hayes  
2 pool again, quite traumatic and remember these  
3 are kids right there inside the fence line  
4 breathing in these fumes. Black carbon which  
5 was mentioned earlier at Weequahic Park, again,  
6 pretty dramatic compared to a residential  
7 street. The reason why we show you all this is  
8 because these are truck corridors that come out  
9 of the port and go into the neighborhoods,  
10 primarily the southward which is where Weequahic  
11 Park is and where the Ironbound is at the east  
12 ward of Newark.

13                   These are numbers that we release  
14 with a clean air task force. Numbers that you  
15 saw from Los Angeles area, but these are the  
16 numbers, the most recent numbers that we have  
17 right now for us here in New Jersey that show  
18 you the health impacts, premature deaths,  
19 nonfatal heart attacks, asthma, emergency room  
20 visits, loss work days all of this costing money  
21 to people.

22                   In Essex County in particular, you  
23 can see it is rather traumatic. The numbers for  
24 asthma, death and hospitalization rates double  
25 that of even the rural and suburban towns in the

1 same county in Essex County. Very dramatic  
2 partly due -- we believe partly due to the  
3 diesel and truck traffic that goes on and comes  
4 out of the port. You saw this slide earlier.  
5 One out of four urban kids with asthma as  
6 opposed to the state and national average is one  
7 out of ten. A lot of kids out of school as a  
8 result. These are estimates of medical costs in  
9 Essex County alone. You see the numbers aside  
10 the premature deaths and these other numbers,  
11 the insurance companies assign numbers so if you  
12 take out the premature death number and you just  
13 look at how much it cost for the nonfatal heart  
14 attack, missed work days and asthma attack, ER  
15 visits, it is a lot of money that the county  
16 residents and the state pays because if you  
17 think about people who are living in Elizabeth  
18 which is in Union County, but if you think about  
19 people in Newark and needing care, many of them  
20 are in charity care which means the state is  
21 footing the bill or the hospitals are eating the  
22 costs.

23                   The thing that we want to say is  
24 that we can do better and so I am going to turn  
25 this back over to Christina to talk about what



1 we could do better in trucks and of the world  
2 and we have done port tours and I know some of  
3 you might have been on some port tours, but if  
4 you'd like to do some of the community based  
5 port tours, you're welcome to come join us.

6 MS. MONTORIO: So great point, we  
7 can do better. There is technology out there  
8 that can bring particulate emissions that are  
9 killing people to almost negligible levels.  
10 Sixty 2007 trucks equal to one 1997 or earlier  
11 truck. So we can encourage upgrade, we can  
12 significantly reduce people that die. It is  
13 just that simple. This is the Clean Air  
14 Council, not the labor council so I didn't want  
15 to spend an inordinate amount of time talking  
16 about the drivers, but the conditions of the  
17 drivers face are part of the environmental  
18 problem.

19 The fleet doesn't get upgraded as  
20 fast as it should be because the drivers don't  
21 make a lot of money. I will go through this  
22 briefly and am happy to talk about this more. I  
23 mention it here today because it is an intrinsic  
24 parts of the problem.

25 As Valorie mentioned, drivers are

1 misclassified as owner/operators. They do not  
2 have the ability to set rates. They are paid by  
3 the load rather by the hour. If they wait on  
4 lines there is no market incentive to move them  
5 faster in and out of the ports because the  
6 person that pays for their time is themselves.  
7 Estimates from around the country, many drivers  
8 make less than eight dollars per hour because  
9 they don't make a lot of money, they don't buy  
10 health insurance, they certainly are not making  
11 major capital investments.

12                   In 2007, newer trucks which can  
13 cost a hundred and fifty thousand dollars and  
14 up. So they drive the older more highly  
15 polluting trucks and in order to keep up with  
16 the rest, keep their pace with truck payments,  
17 rising cost of fuels and other expenses, drivers  
18 will take work at lower rates so they may take a  
19 job less than what they need to make in order to  
20 keep with the truck --

21                   MR. EGENTON: I have to give you  
22 the three minute warning.

23                   MS. MONTORIO: The top five U.S.  
24 seaports are all considering to reduce diesel  
25 pollution. You can see we are in the midst. We

1 are not -- I am talking about comprehensive  
2 strategies that are discussed here. There are  
3 some great policies put out there today. They  
4 may potentially have some concerns, but may not  
5 be able to take advantage of low-interest loans  
6 because they are struggling to purchase gas. In  
7 addition, when you think about the rail issue,  
8 you can certainly do a lot with rail and very  
9 exciting, we ought to do what we can with it.  
10 You are going to continue to have trucks so we  
11 want to make sure these trucks are the newest,  
12 cleanest trucks we can possibly have.

13               So what did Los Angeles do and,  
14 again, Peter mentioned this earlier in his  
15 slides as parts of the solutions that could be  
16 considered around the country. They passed a  
17 clean trucks program which requires aggressive  
18 fleet monitoring station as well as companies  
19 moving into being employers as opposed to  
20 brokers or owner/operators. Why did they do  
21 this, because right now the -- before they  
22 implemented the new trucks program, the drayage  
23 system which is the port trucking system in Los  
24 Angeles was plagued with operational  
25 inefficiencies and community cost and public

1 health cost in the estimates of five hundred  
2 million and 1.7 billion dollars. So you can see  
3 all the reasons where those costs come from  
4 things that Amy talked about, public health  
5 issues. You think about community cost, road  
6 maintenance, environmental damage and  
7 operational efficiencies where it can back up  
8 impact on truckers. Truckers don't have health  
9 benefits that Valorie talked about.

10                   What the operative of clean trucks  
11 program that was passed in Los Angeles reduced  
12 emissions, improve the facility of market share  
13 for working sporadic on the flows that are  
14 problems with it.

15                   Safety and security. Port  
16 security is an increasing issue in any port.  
17 There was an effort to improve all of these  
18 aspects. Mike, I put that slide in here  
19 especially for you. I am so glad you asked the  
20 competitiveness question when Peter was making  
21 his remarks earlier today.

22                   This is an economic analysis by  
23 John Haverman who is a leading economist in the  
24 field who did a thorough research of what the  
25 trucks program would do to the trucking system.

1 The industry had a lot of concerns with, how it  
2 is going to be implemented and what kind of  
3 advantage or disadvantage it would put them in  
4 with regard to other ports. Haverman found a  
5 significant increase in the overall efficiency  
6 of the system, cost reductions that come from  
7 economies of scale in addition to not killing  
8 people anymore. Not to be inflammatory.

9                   These were the elements of the  
10 clean trucks program we can spend a lot of time  
11 talking about it, but since I already got the  
12 warning, I am happy to answer questions about it  
13 and so what the Coalition for Healthy Ports  
14 which is the group that Valorie, Amy and I are  
15 all members of are here to say to ask the Clean  
16 Air Council to do.

17                   We have some key points that we'd  
18 like to leave you with. We'd like to urge you  
19 to advise the state to enact a plan for reducing  
20 the pollution at the port. Other port cities  
21 have done this and sort of spurred the  
22 conversation. You set the standards and then  
23 government entities then need to react with good  
24 policy. Then we pledge to work with you to  
25 implement those solutions and make sure we

1 remain economically viable. We are competitive  
2 and not doing anything to the great economic  
3 engine that is the port while we are also  
4 improving air quality and public health and  
5 work. So with that.

6 MR. EGENTON: Thank you,  
7 Christina, Amy, thank you very much.

8 Again, I just want to give due  
9 consideration the time to keep everybody within  
10 that time.

11 Our next speaker is Gail Toth with  
12 the New Jersey Motor Truck Association. Gail is  
13 the executive director. She has over thirty  
14 years experience in the transportation industry  
15 as an expert in motor carrier, cargo liability  
16 and cargo security. Her career has included  
17 executive director of the American Trucking  
18 Association's Transportation Loss Prevention and  
19 Security Council. She served on the FAA  
20 commission on airport security, administrator of  
21 the transportation arbitration board and the  
22 president of freight claim management services.  
23 I'd also note that Gail was the only private  
24 citizen to receive the U.S. Department of  
25 Transportation 911 medal and Gail has worked

1 with several issues important to the trucking  
2 industry and we appreciate you joining us today  
3 and sharing your comments with us Gail, thanks.

4 MS. TOTH: Excuse me for reading,  
5 but I have had some real significant medical  
6 issues over the last month so I am trying to put  
7 things together very quickly and hopefully it  
8 will come off okay.

9 First of all, I'd like to thank  
10 you for allowing us to come here and provide you  
11 with some comments in regards to air pollution  
12 at the ports. The membership of the New Jersey  
13 Motor Truck Association does strongly support  
14 the achievement of cleaner air and the  
15 protection of the environment in New Jersey.

16 The trucking industry has made  
17 many strides in reducing diesel emissions.  
18 Trucking actually was the first freight industry  
19 to widely use advanced engine technology or  
20 emission control systems.

21 In 2002 where we had our biggest  
22 stride was the industry began buying new trucks  
23 that incorporated exhaust gas recirculation and  
24 other emission control to reduce tailpipe  
25 emissions of nitrogen oxide by half. In 2007,

1 the new diesel trucks purchased by the industry  
2 incorporated diesel particulate filters that  
3 reduced the tailpipe emissions of particulate  
4 matter by ninety percent. These trucks also  
5 began the first half of what ultimately will be  
6 an additional ninety percent reduction in NOx  
7 emissions.

8                   The trucking industry also began  
9 transitioning to a new ultra low sulphur diesel  
10 fuel in 2006. The ultra low sulphur diesel fuel  
11 represents the majority of the on road diesel  
12 fuel being purchased in the United States today.  
13 It is refined to the lower sulphur content to  
14 near zero levels of fifteen parts per million.  
15 The new ultra low sulphur diesel fuel is needed  
16 to operate our 2007 model engine and we just  
17 found out that the Turnpike doesn't supply all  
18 the pumps with ultra low sulphur diesel so that  
19 is the issue we will take up with the Turnpike.  
20 The fuel in older trucks according to Netcon  
21 will result in an immediate ten to thirty  
22 percent reduction in emissions.

23                   In New Jersey, less than six  
24 percent of all trucks randomly checked and they  
25 are selected by the output from their vehicles.



1 Only six percent of the trucks have failed on  
2 your stringent testing and we have agreed to  
3 support DEP's move to increase those capacity  
4 levels. The random test includes not just  
5 Jersey trucks or people operating in around New  
6 Jersey, but even trucks passing through that are  
7 interstate that may have no business here, but  
8 are going through our state or corridor.

9                   The diesel engines built in 2002  
10 and 2007 emission technology are remarkably  
11 cleaner than many used to think is even  
12 possible. Smog from nitrogen oxide is unburned  
13 matter that used to generate puffs of black  
14 smoke from the exhaust stacks are being stripped  
15 to the lowest practical levels by advanced  
16 design and ultra low sulphur diesel fuel. The  
17 technologies have extracted a price which must  
18 paid by the truck buyers and operators. Not  
19 only is the new equipment more expensive, it is  
20 less fuel efficient. Truckers today have to  
21 purchase fuel at over four dollars per gallon  
22 and we went from ten miles a gallon to six miles  
23 a gallon in our efficiency. So there is a lot  
24 of pressure on the industry to increase fuel  
25 efficiencies.

1                   In an effort to improve the fuel  
2 efficiency and reduce the diesel emissions, the  
3 Federal Environmental Protection drafted the  
4 Smartway program in conjunction with the  
5 trucking industry. This program is designed to  
6 educate heavy duty diesel truck owners on ways  
7 to reduce diesel emissions by reducing idling  
8 and improving fuel efficiencies.

9                   Some of the technologies including  
10 idling should offer devices, the tires, tire  
11 inflation systems, air dynamics, lightweight  
12 parts and an array of operational services like  
13 temperature control and power such as auxiliary  
14 power units and bunk heaters. New Jersey Motor  
15 Truck in some of our New Jersey based trucking  
16 company members have received Smartways awards  
17 in recognition of our efforts to reduce diesel  
18 emissions.

19                   In New Jersey, the trucking  
20 industry has partnered with the Department of  
21 Environmental Protection to reduce diesel  
22 emissions in our state. The NJMTA in  
23 partnership with the DEP administered a seven  
24 hundred fifty thousand dollar grant program from  
25 EPA to provide grants to New Jersey based truck

1 owners to purchase auxiliary power units, bunk  
2 heaters as well as particulate matter traps or  
3 oxidation catalytic converter also provides  
4 programs on diesel emission reduction to its  
5 members.

6                   I am really pleased to say that we  
7 have now given out all the dollars that we had  
8 so if there is more dollars out there, we are  
9 looking for it, but we were able to help quite a  
10 few people that operate in our region. They  
11 have to operate within our region. We will  
12 start getting the numbers, exact numbers, but we  
13 use the computer chips that are on the trucks  
14 and they had to give us a printout of the  
15 original chip and what the idling time was and  
16 then a year later they have to give us another  
17 printout so we can see the savings. In many  
18 cases on an APU typical truck in operation,  
19 fifty percent of the time on a truck without the  
20 APU. With an APU it is down to ten to fifteen  
21 percent so it is a very, very significant  
22 savings, which is what we are pushing for.

23                   The DEP has also attained funding  
24 to install idle air technology at the Vince  
25 Lombardi rest area along the New Jersey

1 Turnpike. There is also idle air installation  
2 down at Paulsboro Truck Stop. This allows  
3 truckers to hook up to facilities that provide  
4 power, heat and air conditioning for a small  
5 fee. The NJMTA continues to partner with DEP to  
6 seek grants to continue to aid in the reduction  
7 of diesel emission in our region. Today's  
8 hearings focuses on reducing emissions at the  
9 ports.

10 From a trucking industry  
11 perspective, there are some areas that we can  
12 concentrate on such as idling reduction and  
13 updating or replacing older trucks. The new  
14 2007 tractor trailer is approximately a hundred  
15 thousand dollars. Even in the best of times,  
16 this is a huge investment for an individual that  
17 operates on a profit margin of pennies on the  
18 dollar. However, there are incentives and  
19 internal operations that we can assist in  
20 accomplishing our goals. Any approach to  
21 solving this issue must be done in a way that  
22 provides a reasonable and efficient and legal  
23 approach. As some of you may know because I  
24 wasn't here earlier, but I am assuming you  
25 already heard and I know Christina touched on it

1 is that the California ports had approved a  
2 clean truck plan that would ban on a phase basis  
3 the support trucks from 1989 effective  
4 October 2008 and by 2012 all port trucks have to  
5 be 2007 compliant.

6 LA has been fortunately approved a  
7 provision of this plan that Teamsters are here  
8 today to urge you to consider that will  
9 undermine many efforts to implement a workable  
10 clean truck program in California or in any  
11 other state. By adopting a union design scheme  
12 that in the name of cleaner air bans independent  
13 owner/operator drivers from providing port  
14 transport services even if they drive a brand  
15 new 2007 truck, port city officials have now  
16 guaranteed that the next venture for any such  
17 proposal would be in the courts.

18 Motor port carrier today operates  
19 under a federally deregulated competitive open  
20 entry business model. Based on a motor carriers  
21 business decision to use employee drivers,  
22 trucks deliver by an independent owner/operator  
23 or under contract or a combination of the two.  
24 The American Trucking Association has announced  
25 that it shortly initiated litigation to block

1 the implementation of the LA proposal and  
2 believes that the owner/operator exclusion will  
3 run afoul of the federal laws codified in 49  
4 USC14501. That prohibits states and political  
5 subdivision of states from enacting or enforcing  
6 a law that relates to a price route service of  
7 any motor carrier. This conclusion was recently  
8 affirmed and in a Supreme Court decision, Rowe,  
9 versus, New Hampshire Motor Transport, the court  
10 rules Congress was to assure that carrier rates  
11 and services are structured via competitive  
12 market forces and not because of government  
13 commands.

14                   The trucking industry has shown  
15 that it does have a sincere commitment to clean  
16 air and will continue to work with others to  
17 accomplish this goal. In addition to all the  
18 current advances made by the trucking industry  
19 to reduce the emissions, the following  
20 recommendations may help to address how we can  
21 reduce the emissions at our ports.

22                   First one would be to improve  
23 efficiencies at our port. Probably the biggest  
24 problem at the port is long waiting lines. Some  
25 of the lines over times have been better than

1 other times. When we heard recently  
2 particularly with the purchase of a lot of banks  
3 getting into the terminal business. They are  
4 like bean counters, they are reducing the  
5 amounts of personnel, therefore, it is having an  
6 impact because now we have to wait in line again  
7 and as we are waiting in line we are burning  
8 fuel. So if we can do things to improve  
9 efficiencies at the terminal, that will go a  
10 long way in reducing port pollution.

11                   Extending gate hours has been  
12 done, but it wasn't done right. We did have an  
13 attempt by several terminals to extend their  
14 gate hours so we could work and operate off peak  
15 time and reduce the congestion at the port. The  
16 problem is that none of the shippers or  
17 receivers were in on the plan and what we need  
18 to do is work and get particularly the large  
19 shippers and receivers to except freight at an  
20 earlier hour or later hour. This way we can  
21 move the trucks in and out and get this to where  
22 they need to go.

23                   Most importantly, what I found  
24 which has been really to me our members really  
25 do want to embrace a clean air program because

1 we all live in New Jersey. We know we are a  
2 nonattainable state. What we found, education,  
3 reaching out to the trucking community has gone  
4 a long way from getting people on board. We  
5 need to provide truck owners that service to  
6 port which is a group by the way, I have to  
7 admit we do not directly -- we represent  
8 trucking companies, not owner/operators and  
9 there is a significant owner/operator aspect of  
10 the port that works in terminals, but they are  
11 also a lot of owner/operators and truck owners  
12 are fleet owners is that are also members of our  
13 program. We need to go find a way to reach out  
14 and provide educational materials and to provide  
15 these owners of trucks that may not have the  
16 resources that there is an enormous amount of  
17 resources up and Congress -- and I have included  
18 in my packets something this morning on small  
19 loan programs and a lot of neat things that EPA  
20 is doing in order to help these owners to get  
21 better equipment. Tax credits to purchase new  
22 technologies or a combination of grants and  
23 small business loans with low interest rates are  
24 a way to go.

25 Probably the biggest problem for



1 any truck owner is the investment that they have  
2 to make for a new truck which is in the vicinity  
3 of a hundred thousand dollars which is quite  
4 expensive. Anything that we can do to help  
5 them. Not only that, there are technologies  
6 that we can utilize. There is particulate traps  
7 on these trucks. The catalytic convert. There  
8 are things that can be done if they have  
9 sleepers and utilizing them.

10           The thing that I really find most  
11 attractive is a program that started out in  
12 California a while back. It is a scrap program  
13 and the neat thing about that program is they  
14 would encourage owners of very old trucks to  
15 bring their truck in and they would put a bolt  
16 through the engine so this way it doesn't have  
17 an after market value, it's gone, it is gone.  
18 You won't find it in Mexico or in India a couple  
19 years later, but the engine is done and what  
20 they did is by taking the oldest vehicle they  
21 offered about twenty-five thousand dollars for  
22 that owner to then purchase something newer.  
23 Obviously, probably not a brand new 2007 hundred  
24 thousand dollar tractor, but if you could get a  
25 2002 and have it upgraded, then you have

1 accomplished a lot. So that is a program I'd  
2 love to see although it is extraordinarily  
3 expensive. If they had money that was given to  
4 them or monitored through their Port Authority,  
5 but I'm not sure their Port Authority raised  
6 those funds and I do believe there was also a  
7 registration fee attached to every car  
8 registration that was used for clean air funding  
9 that also contributed to this program, but there  
10 are more and more dollars being allotted by the  
11 federal government. Hopefully maybe we could  
12 get some of those dollars and use that to get  
13 rid of the really old trucks. Installing idle  
14 air around the port.

15 A lot of things that we are  
16 funding. We have thirteen hundred missing truck  
17 parking spaces in the State of New Jersey based  
18 on a study just done by the North Jersey.

19 MR. EGENTON: I have to give you  
20 the three minute warning.

21 MS. TOTH: What happens, you have  
22 a lot of that. Some of the comments earlier and  
23 they sit around and wait for the gates to open  
24 at the terminal. If we could put the idle air  
25 technology which allows them to just drive up,

1 if they don't have APU which then does not  
2 require them to operate their vehicle, they can  
3 plug in and they can have electricity. They can  
4 have the air conditioning, they could have the  
5 heat. It is a very small fee and this would  
6 allow them to stop polluting and stop sitting  
7 there idling just for the temperature purposes.

8 I also noted that when I just saw  
9 the study that was presented, I know that there  
10 is a lot of work being done to reroute traffic  
11 around the port to put them more on the  
12 industrial side of the road and maybe we need to  
13 really look into those things if we have too  
14 much truck traffic to the local neighborhood,  
15 there is always a way to reroute around that.

16 In conclusion, the New Jersey  
17 Motor Truck Association is willing to continue  
18 to work with the DEP and with all the motor  
19 stakeholders to develop and implement  
20 reasonable, legal and efficient programs to aid  
21 in the reduction of emissions to our ports.

22 Thank you very much.

23 MR. EGENTON: Thank you, Gail,  
24 appreciate you being here.

25 Keeping on track here, our next

1 speaker is Eileen Murphy and she's the director  
2 of DEP's division of science and research and  
3 technology. Before becoming director in 2004,  
4 she served as assistant director for four years  
5 and as a research scientist for eleven years  
6 within the division's department primary  
7 scientific research and technical support unit.  
8 The role of the division through its studies,  
9 evaluations and monitoring efforts is to help  
10 provide the department with a sound, technical  
11 foundation upon which to base policy and  
12 regulatory decisions.

13 Eileen, thank you.

14 MS. MURPHY: Thank you for  
15 inviting me. I am actually presenting the work  
16 of researchers who are a lot smarter and more  
17 educated in this topic than I am. Dr. Allen Kao  
18 who is based in Boston, but couldn't come down  
19 but gave me permission to bring the topic he  
20 gave to Teterboro February 11. For a copy of  
21 his complete presentation plus the complete  
22 report and appendices, we have them up on our  
23 website here at DEP. So if you're looking, if  
24 you're longing for more on this study, rest  
25 assured you can get it by visiting our website.

1                   A little bit of background before  
2 I get into the study. In 2001, Environ was  
3 approached by a community group in the Teterboro  
4 area, the Coalition for Public Safety and  
5 Health. We were asked to do some limited  
6 monitoring in the area. They did do that and  
7 found that the downwind of the airport, some air  
8 toxics were higher than elsewhere in the state.  
9 This led them to conclude that monitoring was  
10 needed in order to ascertain the actual impact  
11 of the airport on the community.

12                   In 2003 the Environmental and  
13 Occupation Health Sciences Institute did a  
14 modeling study to do the same thing without a  
15 monitoring. They concluded that a negligible,  
16 that is one to five percent, of the total air  
17 toxics in the ambient residential areas due to  
18 the airport. So we had two different  
19 conclusions from two different studies. In a  
20 lawsuit there was a settlement reached between  
21 the Coalition for Public Health and Safety and  
22 the Port Authority to do a more extensive  
23 monitoring study in the area. And specifically  
24 to use Environ for that study. DEP was asked to  
25 manage that project which we did.

1                   The overall goals for the project  
2 was to measure the ambient concentrations of  
3 specific compounds and really to see if there's  
4 a way to find a signal that would indicate the  
5 actual contributions of air toxins, specifically  
6 the airport to the rest of the community. This  
7 graph shows the location of the airport in  
8 relation to some of the major roadways. We have  
9 Route 80 over here. We have the Turnpike over  
10 here and closer to the airport there is Route 46  
11 right here to the northern edge and then  
12 Moonachie Avenue here on the southern part of  
13 the airport here. So when we talk about roadway  
14 influences, we are talking about Moonachie and  
15 Route 46 specifically. Here's the monitoring  
16 sites that they use. They had primary  
17 monitoring sites and secondary. A lot of the  
18 analysis for the contaminants they were looking  
19 at are costly so they did an abridged monitoring  
20 at these two secondary sites on this smaller  
21 runway and comprehensive monitoring at the  
22 primary one and primary two sampling locations.

23                   They sampled over the course of  
24 one full year for volatile which they do  
25 twenty-four hour integrated samples every six

1 days over the course of a year and the  
2 particulate and black carbon they did  
3 continuously over the course of a year. They  
4 also tracked wind speed, wind direction. They  
5 used a radar device to track the traffic. They  
6 were able to distinguish passenger cars from  
7 larger vehicles and they received aircraft  
8 landings and takeoff information on a monthly  
9 basis from the airport. They also put up  
10 digital cameras on their primary one and two  
11 monitoring sites pointed at the airport so they  
12 could look at the landings and takeoffs  
13 themselves.

14 So what was happening at the  
15 airport versus what is happening at the roads.  
16 The landings and takeoffs you can see a pattern  
17 during the week day and early morning and then  
18 again in the evening, lesser on Sundays, lesser  
19 on the weekends. Here's for Route 46, you can  
20 see the influence of commuting in the morning  
21 and in the evening. It doesn't show it on this  
22 slide, but the larger vehicles also did not show  
23 that bimodal kind of pattern, it showed the  
24 unimodal pattern so you have truck traffic  
25 consistently all day versus passenger cars

1 during the rush hour and different pattern on  
2 the weekends. This is Moonachie Avenue similar  
3 kind of pattern.

4 Now we will go into some of the  
5 results very quickly. In general of the sixteen  
6 organic compounds that were detected,  
7 consistently detected, thirteen were detected at  
8 higher levels at Teterboro sampling sites than  
9 elsewhere in the state. Here are the locations  
10 of those other sampling locations that they  
11 compared them to. Camden, which is an urban  
12 area. New Brunswick which is a suburban.  
13 Chester which is background and Elizabeth which  
14 comes close to the monitoring sites that we had  
15 in Teterboro, however, all of these locations  
16 are cited very specifically in accordance with  
17 EPA guidelines and the results are interpreted  
18 with that in mind. They were not able to site  
19 sampling locations at Teterboro using those same  
20 guidelines, those comparisons while interesting  
21 were not too sure what -- how much exactly they  
22 tell us.

23 These are the bar charts showing  
24 you the formaldehyde, ethylbenzene and xylenes,  
25 the medians, the seventy-five percentile,



1 ninety-five percentile for those various  
2 contaminants. We are going to talk about  
3 formaldehyde in a minute. That is the one that  
4 jumps out at you. For a couple of COCs there  
5 was no difference, benzene and here's the  
6 formaldehyde. It is not surprising to see  
7 increases in aldehydes in the summer months.  
8 This is July and you can see the yellow is  
9 temperature, the pink is formaldehyde. These  
10 two blues are other aldehydes and this is a  
11 pattern we expect with aldehydes in the summer.  
12 They increase due to photochemical reactions in  
13 the atmosphere and then they go down again  
14 towards the end of the year.

15                   What was surprising about  
16 formaldehyde it showed up and stayed up and then  
17 gradually declined. This pattern said to us  
18 local source. It could be the airport, we don't  
19 know definitively, but we at DEP in response to  
20 this result are looking at what could have been  
21 happening in the area in some of those  
22 industries near this monitoring site that could  
23 account for this formaldehyde pattern. It was  
24 only seen at one of the monitoring sites at the  
25 P-1 and not at the P-2 also indicating that it

1 might not necessarily be from the airport. It  
2 moot be from a local source near that P-1  
3 sampling site. So in the process of  
4 investigating that, PM 2.5 a different analytic  
5 technique was used to reach the results up and  
6 by fifteen percent. So keeping that in mind,  
7 yes, they did see an increase, a higher range of  
8 PM 2.5 in the Teterboro sites. But again  
9 keeping in mind that the methods that they used  
10 weren't exactly comparable.

11 I am going to explain these  
12 charts. I am going to show you several of  
13 these. What this shows here on the Y axis of  
14 the concentration of PM 2.5 and here are the  
15 days for one whole month, September 2006 and the  
16 dots are showing the wind direction. These blue  
17 dots are showing you the PM2 concentration when  
18 the wind was coming from the airport to the  
19 monitor.

20 So here you see some distinct  
21 spikes of PM 2.5 when the wind is coming from  
22 the airport. With the pink, this is when the  
23 wind is coming from the roadways. Again, a  
24 couple of distinct spikes when the wind is  
25 coming from the roadways and then we have cross

1 wind and you see some spikes there indicating  
2 that the sources are both the airport and the  
3 roadway. This is the same information as the  
4 other primary monitoring site. For black carbon  
5 we see a similar pattern. We see some spikes  
6 coming from the airport. Some spikes coming  
7 from the road, a blend in other words. This is  
8 with the P-1 sampling location. This is for the  
9 P-2. They are not as high as PM 2.5, but they  
10 were measuring.

11                   One of the interesting things that  
12 Envri on did in this study that we were  
13 interested in as well was the deep ultraviolet  
14 technology. It is environmental technology and  
15 what it does is put a transmitter and a receiver  
16 on either end of where you think your  
17 contamination is coming from and it will measure  
18 that gas contamination and give you a reading in  
19 the form of DUV intensity.

20                   So they put receivers and  
21 transmitters right here. This is sampling  
22 location P-1. This is as close as they could  
23 get to the end of that roadway. As you can see,  
24 they are right up on the road and they were  
25 constrained, they couldn't get any closer. This

1 is as close as they could get, but that's pretty  
2 good. For P-2 they were a lot closer to the  
3 runway down here transmitter and receiver and  
4 here the roadway here. So they put those up and  
5 let them run continuously and then took a look  
6 at the results. It does represent all the gases  
7 that absorb and I have to emphasize it is  
8 experimental, it's only been used in a couple of  
9 airport studies, this being one of them. The  
10 way they present the results, again, this Y axis  
11 is the DUV intensity that the instrument  
12 observed and this down here the X axis is the  
13 amount of time closest to a landing or a  
14 takeoff. So right here would be right at the  
15 landing or takeoff, thirty seconds, a minute, a  
16 minute and a half two minutes. Here it goes  
17 down to four minutes.

18                   What they have concluded from  
19 these results is that they can pinpoint the  
20 influence of an airplane landing and taking off  
21 by the DUV intensity. It is highest during the  
22 shortest amount of time between a landing and a  
23 takeoff. This is the wind speed direction.  
24 Here again you see the DUV intensity, very high  
25 distinct spikes when it is coming from the

1 airport. Lower when it is coming from the road  
2 and here's a combination. Same thing for the  
3 other sampling location. What is very  
4 interesting here is that with the use of their  
5 cameras and the DUV readings, they could  
6 actually pinpoint the source of that gas  
7 emission. They took a look at this day at  
8 7:00 a.m. They saw there were automobiles on  
9 the runway and look, low and behold you see the  
10 DUV intensity increase. Same here, they saw  
11 this and there were planes idling right in front  
12 of the monitor. There likewise they took  
13 another couple of these and here they saw four  
14 to six planes idling on the apron. That was  
15 very close to the monitoring site and they have  
16 similar explanations for these other peaks that  
17 you see.

18                   So they were definitively able to  
19 pinpoint the reason for the DUV increase in  
20 intensity using that technology. So is the air  
21 near the airport worse than the rest of the  
22 state. Well, they did see statistics  
23 significant increases in some of the VOCs at the  
24 Teterboro monitoring sites as compared to some  
25 of the other state sites. The PM 2.5 was higher

1       however they used a different analytical  
2       technique that they themselves recognize to skew  
3       the results higher. Is it affecting local air  
4       quality? They did show a measurable affect in  
5       the airport they showed measurable affect as  
6       well from the roadways.

7                       I will go back and say the study  
8       concluded that less than five percent could be  
9       attributed to the airport using professional  
10      judgment. These were researchers, they couldn't  
11      quantify what they thought was contributed from  
12      the airport to local air quality, but in their  
13      judgment they feel it's higher than five  
14      percent. It's highly dependent on wind  
15      direction and wind speed. So like any  
16      researcher, they are recommending additional  
17      study.

18                      A lot of folks were hoping that  
19      this particular study would answer a lot of  
20      their questions and while it answered a lot of  
21      them, it didn't answer all of them. It just  
22      couldn't, there wasn't enough money and we  
23      didn't have the knowledge that this study itself  
24      provided. So we do need to look at more  
25      emission sources. We have to really study what

1 is going on with the VOCs and the PM 2.5. Like  
2 I said, I was very interested in the DUV  
3 results. I think it is a very promising tool  
4 each time it is used, it is improved and we  
5 learn more. It is just one of those  
6 technologies that needs more study before it  
7 becomes practical. This was helpful  
8 particularly within the community to understand  
9 what both the airport and the roadways how they  
10 are influencing the air quality.

11 And that's it. I tried to keep it  
12 quick, but like I said, for those of you who  
13 want more information, it is up on the web.

14 MR. EGENTON: Eileen, that was  
15 excellent, you just boom, boom, boom, I  
16 appreciate it.

17 We are going to give our  
18 stenographer a five-minute break because his  
19 hands are ready to disintegrate so I would  
20 encourage you to try to float around this area  
21 because we are going to try to stay on time. We  
22 have a couple more speakers lined up so we will  
23 reconvene in five minutes.

24 (Whereupon, a short recess was  
25 taken.)

1 MR. EGENTON: I'm going to  
2 introduce the next speaker. Quiet in the  
3 audience, please.

4 Our next speaker is Diane Brake,  
5 president of PlanSmart New Jersey and you have  
6 been before the Council before. We welcome you  
7 back. Just a little background. Diane has  
8 developed in-depth knowledge of land use  
9 planning in central New Jersey as well as in  
10 statewide transportation, housing and state plan  
11 programs. She's an experienced facilitator and  
12 has developed working relationships with state  
13 agencies in DCA, DEP and DOT developers, county  
14 planners, mayors and a broad range of non-profit  
15 groups including environmentalists, housing,  
16 transportation, urban and social justice  
17 advocates. She's the founding officer in two  
18 statewide coalitions, the New Jersey Regional  
19 Coalition and the Coalition for Affordable  
20 Housing and the Environment and we appreciate  
21 you joining us again and look forward to your  
22 remarks.

23 MS. BRAKE: Thank you. All of  
24 that has been because of my job for twenty-three  
25 years. So it is like showing up is what it is



1 all about. Good afternoon and I want to thank  
2 you for inviting me. I think I am speaking on  
3 this panel to talk about land use issues in  
4 particular and one of the things that we have  
5 found over the years if you can connect land use  
6 to many of New Jersey ills and we have been  
7 looking at that, but because they are all  
8 connected to each other, we have also developed  
9 a reputation for looking for win/win solutions  
10 because we don't want to solve one problem and  
11 then cause other problems in other areas. It is  
12 probably the reason that I was dumped off my  
13 high school debate team because I listen to the  
14 other side and said that is a really good point.  
15 You will understand why we are talking about  
16 that here.

17                   Basically, the way we talk about  
18 land use and how it is connected to these issues  
19 is that center based development really is the  
20 only way to begin to address all of the issues.  
21 It is really connected to transportation and I  
22 think that this animation begins to show you  
23 that you pick the center, you connected them  
24 with transit and this is how you reduce auto  
25 dependency and hence airplanes and our research

1 in this area goes back.

2                   We had a federally funded study  
3 back in 1990. We published the results and,  
4 again, to look at if we did that center based  
5 plan, what it was for central New Jersey between  
6 Trenton and New Brunswick we actually tracked  
7 that we could reduce the number of trips by  
8 almost sixty percent, at least the growth in  
9 trips and also the growth in vehicle miles  
10 traveled by as much as forty-three percent and  
11 the growth, of course, is because you are adding  
12 more people and more trips, but you could get  
13 significant results if you center development.  
14 So that has something to bring to the airport  
15 and ports discussion as well.

16                   We began to look at how we could  
17 bring all those positions, the smart growth  
18 project. Basically looking at how you could  
19 bring all these things without hurting all of  
20 other things. So we have four kinds of  
21 reminders. That we take care of better outcomes  
22 on the ground from the economy, for the  
23 environment, for efficiency, reducing costs and  
24 resource consumption and regional equity, the  
25 social justice issues and you have heard a great

1 deal about the environmental justice issues.  
2 All of these things have to be touched on. We  
3 call the four E's as you look at those  
4 recommendations. How can you optimize results  
5 rather than to maximize any one in particular.  
6 So we started by looking at the economy and I  
7 pull up this slide. These are the ten major  
8 sectors that are important to New Jersey.

9                   Basically, if they are above the  
10 line they are significant to New Jersey and if  
11 they are over in the right hand quadrant they  
12 are growing. You could see 2001 to 2004 was a  
13 pretty poor year for economy and the hot pink  
14 one is transportation logistics center. It  
15 shows it is very significant. This is just  
16 employment, not the dollar value. The dollar  
17 value would actually show transportation  
18 logistics to be even greater than  
19 pharmaceuticals and other science and technology  
20 to our economy.

21                   So my first message to you is as  
22 you work to improve the environment that you  
23 don't kill this very important economic sector.  
24 Then we began to map these jobs and began to  
25 look at on the left-hand side is the number of

1 jobs and where they are today.

2                   The middle is where they are  
3 concentrated today. That is very much like the  
4 map that Amy showed you that showed where the  
5 pollution is. This is, of course, where our  
6 major corridors are. What is even more  
7 interesting is the gray to black part of this  
8 map shows where growth is happening in this  
9 sector. You can see that the jobs are moving  
10 west.

11                   Now, obviously you get huge  
12 increases if you didn't have very many jobs to  
13 start with, but we show it because this is where  
14 the jobs are moving on their way to Pennsylvania  
15 as we are finding out. So that is something  
16 very important and one of the things that we  
17 have developed in our smart growth economy  
18 project is something that I have mentioned to  
19 you about are these calculations or where we try  
20 to say how can you take statewide goals and get  
21 to local land use decision-making and one of our  
22 first calculators was, in fact, a greenhouse gas  
23 emissions reduction calculator taking up at the  
24 top the Governor's target and then we look to  
25 how can we make a target for each county and

1 then actually get local actions to meet that  
2 county level. So it is a way of taking a goal,  
3 quantifying it, distributing it so that  
4 everybody has equal part in making the answer  
5 and I can talk to you more about that too, but  
6 it is this connection between policy to land use  
7 that we have been looking to strengthen.

8 I think that I am showing this  
9 again because I am reminding you that each of  
10 these counties could have a significant  
11 contribution to reducing the gases. In terms of  
12 land use policy and this is, again, related to  
13 how you come up with recommendations. These are  
14 what we have decided in New Jersey and all the  
15 different programs. These are the growth areas.  
16 This is where we want new development to happen.  
17 We think this could be efficiently served. It  
18 could reduce our cost, it could save open land,  
19 it could make growth capacity for the economy,  
20 but as we put in regulations to try to solve  
21 specific problems, we have also put in  
22 impediments also to growth in those growth  
23 areas.

24 So I show this map and this isn't  
25 even showing all of the impediments that people

1 have told us actually makes it harder to grow in  
2 growth areas and that's one of the reasons they  
3 move to greenfields. It is one of the reasons  
4 we have all the warehouses at Exit 8A where it  
5 is greenfield development, easier than  
6 remediating the soils around the port to use for  
7 warehouses. So I just remind you that this map  
8 can show you what you should be looking for.

9                   One of the other things that we  
10 began to look at is how should transportation  
11 fit into goals for small growth. It is  
12 basically reducing auto dependency or for your  
13 topic today reducing truck dependency and you  
14 begin to look at how can we invest in transit  
15 and begin to make the land use so it makes that  
16 transit efficient.

17                   Now, as I understand it from my  
18 experience with some of the communities in  
19 central Jersey who are looking to reduce the  
20 truck traffic on 206 and 31, we've heard from  
21 some of the CSX, the freight rail line that we  
22 could have as much as twenty-five percent of the  
23 containers moving by transit. Right now that  
24 level is about six percent so -- higher than  
25 that, Frank. Are we moving up towards

1 twenty-five percent. I know that Frank will  
2 talk more about the Liberty Carter plan.

3                   The transportation sector is I  
4 think a model for other important economic force  
5 for New Jersey and they come up with a plan of  
6 what they need for infrastructure investments,  
7 land use changes, highways and rail and other  
8 things. They actually have a plan, this is what  
9 we need to work better. But I would say that  
10 you should recommend that twenty-five percent  
11 target at least in the short-term should be a  
12 goal for moving freight by transit rather than  
13 by truck. That would be a beginning start. But  
14 of course you really can't do that unless the  
15 land use is supportive. When you allow through  
16 zoning to have big box retailers everywhere, you  
17 are going to have trucks having to go everywhere  
18 because they have to be filled. So land use has  
19 a significant impact.

20                   Again, what I am trying to tell  
21 you that we have three particular messages today  
22 and I have given copies of a more detailed  
23 speech that goes with this slide show, but I am  
24 trying to cut back on the time.

25                   First of all, is to worry about

1 the economy in general and this particular  
2 sector in particular as you pursue clean air,  
3 absolutely in favor of all of the improvements  
4 that you've heard from the advocates. Push the  
5 envelope of transit and you cannot do that  
6 without remembering not only the long haul for  
7 the CSXs of the world that travels across the  
8 country, but short haul and that is, again, a  
9 local land use decision-making process where so  
10 many of those short haul lines have become  
11 defunct because of a neighborhood that  
12 complained to a mayor who then decides that they  
13 can do without that short haul line and I do not  
14 think anybody really thinks about what impact  
15 that has. So remember those short haul lines  
16 they are very significant to New Jersey economy  
17 for the last hundred years and it seems to me  
18 the decision to erase them has been fairly  
19 capricious.

20 Third, to make sure we can have  
21 things like the great investment for the train  
22 station on the Northeast Corridor line to allow  
23 passengers to access the airport. Remember that  
24 they are not going to use that wonderful  
25 expensive facility unless they can get to the



1 train station from their origin so they could  
2 take the train. That is a local land use issue  
3 and it is also the kinds of emphasis on jitney  
4 services as well as these big investments in say  
5 the Art Tunnel. It is some of those localized  
6 issues that I think are relevant to our overall  
7 goal.

8 So thank you very much for giving  
9 me the opportunity to talk today.

10 MR. EGENTON: Thank you, Diane.  
11 Appreciate your presentation.

12 Our last scheduled speaker and  
13 then we will go into the public speaker forum is  
14 Frank McDonough and, Frank, it is good to see  
15 you again. You have hosted us actually at a  
16 Clean Air Council at your facility. Just a  
17 little background. Frank is an environment  
18 attorney and former maritime advisor to the  
19 governor of the State of New Jersey. He served  
20 as a maritime consultant and executive director of  
21 Nations Port, a lobbying group and in 2001 was  
22 elected president of the New York Shipping  
23 Association. That organization represents the  
24 ocean cargo carriers and terminal operators in  
25 the Port of New York and New Jersey and is

1 responsible for the hiring and training of the  
2 work force in the third largest port in the  
3 nation. Port of New York and New Jersey imports  
4 and exports a hundred and sixty-six billion  
5 dollars in cargo annually. Frank is a former  
6 professor at Stevens Institute of Technology  
7 Center for maritime systems, the chairman of the  
8 New Jersey State Tidelands Resource Council. He  
9 serves on the board of advisor of several  
10 academics institutions and prior to embarking on  
11 his career in law and public service was a  
12 career marine and combat veteran retiring after  
13 twenty-two years with a rank of major,  
14 congratulations.

15 MR. McDONOUGH: You just took up  
16 my entire time.

17 MR. EGENTON: Your times up.

18 MR. McDONOUGH: Pretty clear from  
19 that resume that I can't hold a job. First of  
20 all, I want to say that I agree with everything  
21 that Gail had to say except the comments about  
22 my bosses, that part we have to take off the  
23 record. I also agree with everything Diane had  
24 to say and we had the pleasure of working  
25 together before and hopefully again in the

1 future.

2 I am going to keep this as short  
3 as I possibly can. You have my remarks in front  
4 of you. They are fairly extensive so I am going  
5 to try to breeze through this as quickly as I  
6 can given the late hour and the fact that I am  
7 the only thing standing between you and the  
8 door.

9 Good afternoon, thank you for  
10 inviting me. I am pleased to provide you with  
11 an update from the last time we met some two  
12 years ago. As you will recall when we met at  
13 the NYSA training center, I reported that my  
14 segment of the industry, the people I am  
15 representing here today, the port terminal  
16 operators and cargo vessels constitute only  
17 one percent of the emissions in the North Jersey  
18 air shed. A fact that had been established by  
19 the Port Authority through its consultants Star  
20 Crest. I also reported that as a result of the  
21 many improvements in equipment and terminal  
22 operations, we collectively had reduced  
23 emissions by a minimum of thirty to thirty-five  
24 percent in every measured category or  
25 forty-five percent across the board and that was

1 2004. As I understand it, the Port Authority is  
2 about to embark on Phase III and take yet  
3 another look at it to see how much we've done  
4 since then.

5                   Some of those improvements  
6 included switching to cleaner fuels, looking to  
7 electric powered equipment such as substituting  
8 electric cranes for diesel cranes, purchasing on  
9 road compliant equipment even though we don't  
10 fall under the regime installing idle shutdowns  
11 on equipment, switching fuels in equipment and  
12 buildings. New lane systems and, of course,  
13 more efficient gate systems which is something  
14 that Gail alluded to a little while ago.

15                   Since then we have implemented a  
16 number of other programs and stand on earlier  
17 initiatives and these are the things I am going  
18 to breeze through very quickly. First of all, I  
19 picked the tallest guy in my organization back  
20 there, Jim Carp, to go around the port and hang  
21 no idling signs everywhere in the port except  
22 the truck lines and not only that, but New York  
23 container terminal although a New York facility  
24 did exactly the same thing and created an  
25 incentive for folks to turn off their engines.

1 So we have a no idling policy throughout the  
2 entire port. Signs were a little high, that is  
3 because Jim is a little high. We also installed  
4 plug-ins in a number of areas in the port and I  
5 would love to work with the folks that got some  
6 more money in that area so we can get them just  
7 about everywhere in the port we need them.  
8 Right now we don't have enough.

9                   Some of you will recall that in  
10 the past we supported something called a port  
11 inland distribution network, PIDN, program which  
12 Bill and others worked on for years.  
13 Unfortunately, it failed, but it failed for  
14 reasons not related to our discussion here  
15 today, but it was a great way to get the cargo  
16 off the road onto barges and run it up to  
17 Albany. So it was a result despite the fact  
18 that failed, we are working with Connecticut,  
19 Camden and other places to see if we can't  
20 re-establish some more barge runs. By the way,  
21 when we did that, we applied a lower rate to  
22 that cargo than all the other cargo that we  
23 handled at the time. So if you moved your cargo  
24 by barge instead of at that time paying a  
25 hundred and twenty-five dollars a box to NYSA

1 for the privilege of moving that through our  
2 port, you only paid twenty-one dollars a box.  
3 That was to encourage additional barge traffic.

4 We also have been for years  
5 advocating the marine highway system which would  
6 take trucks off of I95, put them on the water  
7 move them down the canal and other places by  
8 water instead of by truck. Just an aside, we  
9 moved seventeen thousand containers a year by  
10 barge. I would rather use row-rows to do that,  
11 those are bigger ships then we can take the  
12 eighteen-wheelers and drive them around on a  
13 ship and move them south and that is what I hope  
14 to see throughout marine highway system which  
15 just this last year was finally recognized by  
16 Congress so that means hopefully the next step  
17 we will get some money to do this.

18 We have lobbied for funding for an  
19 electrified truck park system. One of our  
20 brother agencies, the Metro mechanics, have  
21 offered up twenty acres of land near the port if  
22 we can electrify that, we can park those trucks  
23 there. As Gail was saying, we need to have a  
24 place to put those trucks while they are waiting  
25 to get in an out of our terminals. We created

1 something called a port support zone and freight  
2 logistics zone program to get trucks out of the  
3 urban areas into the port area itself, have all  
4 of their activities take place in and around the  
5 port as opposed to spread out all over the  
6 place, as Diane correctly points out and take  
7 advantage of portways, port fields and a lot of  
8 other problems that are out there.

9                   We actually designed the liberty  
10 corridor program, the initial program. We  
11 designed it and one of our members managed to  
12 get Senator Mendez to sponsor it and get the  
13 funding for it from Congress. And we want to  
14 utilize that program as a steppingstone to  
15 increase and improve those last mile projects in  
16 and out of the port that we talk about all the  
17 time and the rail projects.

18                   This past year fifty-seven million  
19 dollars was allocated to seven point related  
20 projects through the liberty corridor program.  
21 Everybody knows that railroads are more  
22 efficient than trucks, seems to be a generally  
23 accepted wisdom. So what we did and I am not  
24 going to go through it all, the stats are in  
25 there in terms of railroads, how much more

1 efficient they are and everything else. What we  
2 did was we created a rail incentive to move  
3 cargo out of this port by rail versus truck. So  
4 if you bring a box through this port and you  
5 move it by rail to its customer, we will only  
6 charge you ten bucks. If you move it by truck,  
7 we charge you a hundred and ten bucks. As a  
8 result of that program, our rail movements are  
9 now twelve percent out of the port and going up.  
10 In fact, they rose by 7.5 percent last year and,  
11 Bill, I just had a discussion this first quarter  
12 alone they were up twenty-one percent. So it is  
13 having an impact and we are going to continue  
14 that program as long as my bosses will allow me  
15 to do it, as long as we can continue to pay the  
16 bills. We are currently projected to move more  
17 than three hundred fifty thousand boxes this  
18 year, but after I saw those figures, I think  
19 that number is going to go up substantially.  
20 Each rail car, as you know, can carry twice the  
21 number of containers as a truck. If you take  
22 four hundred fifty-six forty foot containers and  
23 put them on trucks, you will consume somewhere  
24 around six hundred and fifty barrels of oil. If  
25 you move that same quantity of cargo by rail,



1 you cut that more than half.

2 We negotiated new start times.

3 Gail mentioned these we negotiated gate hours.

4 She's right, there is a problem and the problem  
5 is you can't create longer hours if the truck  
6 has no place to go.

7 So we need to deal with the other  
8 end of that problem which is the warehouses and  
9 the distribution center. That is the first time  
10 I ever heard somebody say earlier opening times  
11 and later closing times you don't have to run  
12 twenty-four hours which is what I think a lot of  
13 local mayors and other folks are concerned  
14 about. I don't think you need to do that and we  
15 did our own analysis a couple years and we think  
16 we can just tack on a couple hours on either end  
17 of that working day and it will be extremely  
18 helpful.

19 We lobbied NJDOT on the rail  
20 shuttle program which, again, Diane mentioned a  
21 few minutes ago and to try to get some funding  
22 for that. So that we can open up rail shuttles,  
23 for example, to Exit 8A. There is a rail line  
24 there we can use somewhat like the one that runs  
25 to Raritan Center. That was an entrepreneur

1 that put that thing together, but that is the  
2 kind of thing we are talking about.

3 I instituted a productivity  
4 training program. The faster you move the cargo  
5 off the ship, the sooner we get the ship out of  
6 here. My guys loved that so we instituted that  
7 a couple years ago and our efficiency is up by  
8 some thirty percent.

9 Use of alternative fuels is  
10 another area we have looked at and we created a  
11 discussion agreement under the federal maritime  
12 commission which allows our terminal operators  
13 to talk to each other. You can't do that  
14 ordinarily because you have all these anti-trust  
15 issues. They now talk to each other. They  
16 created an environment and committee looking at  
17 the whole range of programs. Alternative fuels,  
18 fuel co-ops, new equipment, emission reduction  
19 options in addition to all the stuff that we  
20 have already done. All the shut-offs, all the  
21 equipment we are using now has automatic  
22 shut-offs.

23 We have instituted in the  
24 terminals time limits for idling. The number is  
25 ten minutes, that is it. If you idle for ten

1 minutes, you have to shut it down, it's that  
2 simple. In the winter it is a little longer  
3 because the engines require a longer time to  
4 keep them warmed up. More new on road appliance  
5 equipment. I told you about the electric  
6 cranes, the automatic shut-offs, we have the  
7 plug in, locomotive and we are also testing LNG  
8 hustlers, the little truck that hauls the boxes  
9 around. We now have a train in our terminals.  
10 It is a train instead of one truck per box,  
11 there is a bunch of cars that you put a bunch of  
12 boxes on and pull it around.

13                   We have fixed reefer receptacles  
14 instead of utilizing the generators that come  
15 with the reefers, plug them in. We are  
16 investigating a number of other emission options  
17 for carriers. One of the things we talked about  
18 a couple years ago was a vessel reduction  
19 program. Bill I think was running that program  
20 and for whatever reason it kind of fell by the  
21 wayside and I think the primary reason is  
22 because we were already going slow in the port.  
23 We were going to reduce to twelve knots and we  
24 said wait a minute, we are only going fourteen  
25 at most. Of course you got some things that

1 can't go twelve knots because they have a dead  
2 slow issue and, of course, we have a Killvan Cut  
3 which is one of the dangerous channels on the  
4 east coast. We don't want to knock down that  
5 bridge that I don't like.

6                   In any case, we are going to  
7 reopen that discussion and I talked to Bill a  
8 couple weeks ago because we have an opportunity  
9 to slow the vessels down from outside of Ambrose  
10 Light all the way into Verrazano Bridge. The  
11 average speed is actually only fourteen knots.  
12 Even if we knock off a couple knots off that, it  
13 may be helpful. The downside to that is you  
14 slow the vessel down, it is in the water longer  
15 so that's the other issue. I am talking about  
16 air emissions itself out there for another  
17 twenty minutes or another hour. So we are  
18 looking at that. We are looking at alternative  
19 fuels at birth. We will see where we go with  
20 that. We have done a couple studies to help us.

21                   One of the things was to determine  
22 the pollution cost of reduced port operations.  
23 Before you decided that you wanted to regulate  
24 us out of business and start moving those boxes  
25 somewhere else so we brought in Moffitt and

1 Nickel. We had them take a look at that and it  
2 turned the environmental cost and infrastructure  
3 cost of the State of New Jersey on an annual  
4 basis would be about 1.2 billion dollars if we  
5 moved all that cargo through Norfolk,  
6 Washington, somewhere else. So we have to keep  
7 that in mind. Whatever it is that we do, we  
8 have got to look at the unintended consequences.

9 We also just recently took an  
10 analysis of our carbon footprint just to give us  
11 a baseline of where we are going. We are going  
12 to continue to work on that, but if somebody  
13 wants to know what those numbers are, I will be  
14 happy to give them to them.

15 I also note for the record that  
16 EPA has established new emission standards for  
17 locomotives, marine engines other than ours. A  
18 number of other pieces of equipment out there.  
19 We think that is a good first step. We think  
20 that even more importantly is the second step  
21 that occurred last week and that was the IMO,  
22 the International Maritime Organization's  
23 environmental committee which adopted new  
24 standards for engines and fuels for all of our  
25 international vessels. So we are hoping that

1 the IMO if EPA buys into those standards, I am  
2 no scientist, I can't tell whether EPA wants it  
3 or not. We have been pushing for EPA and folks  
4 on the West Coast and World Shipping Council  
5 which is all the carriers to get these standards  
6 in place and if EPA signs off on them, we hope  
7 the IMO will adopt them in October. That is  
8 what we are wishing for.

9                   As the Governor said on more than  
10 one occasion the port is a major economic engine  
11 in New Jersey. We create more than twenty  
12 billion in economic activity. We support more  
13 than two hundred thirty thousand jobs. We  
14 deliver prosperity to our region's citizens.  
15 Today I saw an article in the Journal of  
16 Commerce, Port of LA and Long Beach that complex  
17 lost cargo last year. Wasn't much, but a  
18 hundred thousand boxes because guess what,  
19 because of that they are going to lose seventeen  
20 thousand eight hundred warehouse jobs.

21                   So that is how critical these  
22 operations are and I hope that you will take  
23 those into consideration when you make your  
24 recommendations because we live here too and we  
25 are as concerned about the environment as you

1 all. That completes my comments.

2 Thank you.

3 MR. EGENTON: Thank you very much,  
4 Frank, appreciate it.

5 All right, this is the part where  
6 we have got a couple of public speakers signed  
7 up and I would encourage anyone that is  
8 interested in commenting, as I said at the  
9 beginning of this hearing, the written comment  
10 period will remain open for roughly another  
11 month.

12 With respect to the Council  
13 members here, we have five to six individuals  
14 signed up so I am going to recognize them and,  
15 again, as I said, if anybody wants to be duly  
16 noted, please submit written comments  
17 electronically to the Department on Clean Air  
18 Council website and with that we are going to  
19 call up Bob Belzer and Bob is the president of  
20 the New Jersey coalition against aircraft noise.

21 MR. BELZER: Hi, I'm Robert  
22 Belzer. I appreciate the opportunity to present  
23 comments to the Council. Just a brief  
24 introduction. We are principally a grass roots  
25 organization in the northern New Jersey area.

1 As our title indicates, our primary objective is  
2 reducing aircraft noise, however, we also have  
3 emissions or airport emissions positions which  
4 principally concentrates on capping emissions at  
5 the airport or an airport bubble concept.

6 My comments are broken into two  
7 parts. A two part first comment and a second  
8 comment specifically on the excess idling time  
9 at the airport facilities. Part one is what I  
10 believe is to introduce a formal framework and  
11 this would also be relevant to the port. Let's  
12 get a formal framework on the board, in other  
13 words, establish an emissions inventory with the  
14 current inventory projected five-year and a  
15 projected ten-year inventory.

16 Then the second part of this is to  
17 establish emissions caps at the airport and  
18 seaports and then we have heard a number of  
19 emission reduction strategies here today. The  
20 key question is are these strategies going to  
21 reduce the aggregate level of emissions at these  
22 facilities because as we all know, the Port  
23 Authority and the various industries and  
24 regulatory agencies that are running the  
25 airports and the seaports are actively engaged



1 in increasing volume or capacity at these  
2 airports. I am assuming the port terminal  
3 facility as well. I am less familiar with that  
4 so the rest of my comments will concentrate on  
5 the airports.

6                   It's a pretty good study that I  
7 included in my comments the Internet link to it,  
8 controlling air pollution. This essentially  
9 provides a framework for what I just outlined in  
10 my initial comments here. As I mentioned, the  
11 Port Authority is actively engrained in  
12 expanding airport capacity. They recently  
13 concluded a task force with seventy-seven  
14 recommendations. A week later the FAA concluded  
15 its New York aviation will make a committee task  
16 force with seventy-seven recommendations.

17                   These recommendations are very  
18 clear that they are interested in expanding the  
19 capacity so with more volume are more emissions.  
20 Do all these strategies that we heard about  
21 offset the increase in volume at these  
22 facilities and I think that's the key issue that  
23 the Council -- one of the key issues I'd like to  
24 see the Council address. Recently, this is a  
25 pretty good example of how the FAA conducts its

1 activities. It completed the New York airspace  
2 redesign project. Here's the draft report for  
3 that here. They concluded that very clear  
4 capacity increasing activity. They concluded  
5 that it is not going to increase capacity. We  
6 have numerous documents that suggest otherwise.  
7 They are very actively trying to increase  
8 capacity. The USEPA didn't buy the FAA  
9 conclusion and neither did we and both of these  
10 are in the public comments on the record here  
11 that they are actively engaged in increasing  
12 capacity and they are not taking appropriate  
13 mitigation measures to offset the increase in  
14 volume.

15                   Just finally, the last issue that  
16 I'd like to bring up is the excess idling time.  
17 There is an excellent report out by the New York  
18 comptrollers office. Idling time in New York  
19 airport is twenty-nine minutes. The national  
20 average is sixteen. That is approximately  
21 eighty percent higher than the national average.  
22 It is up by five minutes since 2003. What is  
23 driving this is the overuse of the facility, in  
24 other words, air carriers are over scheduling  
25 operations. FAA recently put in a cap at Newark

1 that will go into effect next month of  
2 eighty-three operations per hour which attempts  
3 to address the delay situation. I am not aware  
4 of the FAA looking at the idling situation. I'd  
5 like, you know, the Clean Air Council to look at  
6 this issue. Will this eighty-three caps an hour  
7 reduce the idling time at the airport. Also,  
8 what is a feasible idling time at the airport.  
9 The comptrollers report highlights the excessive  
10 volatile organic compounds that are a result of  
11 the excess idling time and with that if there is  
12 any questions, I would be happy to take them.

13 MR. EGENTON: Thank you, Bob.

14 Again, in the interest of time, if  
15 there is further follow up, please supply the  
16 department with your e-mail address and we will  
17 have the counsel members reach out.

18 MR. BELZER: I'll send you an  
19 e-mail.

20 MR. EGENTON: I'm sorry, there is  
21 one question.

22 MR. BIELORY: Air quality in the  
23 past, where have you addressed this  
24 specifically, does it go to the Department of  
25 Health or to the NJDEP?

1 MR. BELZER: I was with Wilbur  
2 McNeil and we were presented the DEP reduction  
3 workshop and I introduced this report at that  
4 workshop so the DEP has had several years.

5 MR. BIELORY: Who is responsible  
6 for noise?

7 MR. BELZER: Who is responsible  
8 for noise where?

9 MR. BIELORY: At an airport, the  
10 Port Authority is the principal. What  
11 department in the state does that, do you have  
12 to report that?

13 MR. BELZER: Jerry, do you have an  
14 answer to that, Jerry Fader with my group.

15 MR. FADER: The NJDEP abolished I  
16 guess having any formal paid organization  
17 responsible for noise. There is a Noise Control  
18 Council that met yesterday to deal with some of  
19 the noise regulations in the state and a lot of  
20 enforcement is off-loaded towards the counties  
21 and municipalities.

22 MR. BIELORY: So there is no state  
23 agency that oversees noise?

24 MR. FADER: To the extent the New  
25 Jersey Department of Environmental Protection

1 does provide some support to the continued  
2 operation of the Noise Control Council, but as  
3 far as I know there is no formal funding.

4 MR. BIELORY: Not funding, just  
5 any legislator any administrative executive  
6 component, does noise quality get reported? I  
7 have been told it is a local issue.

8 MR. EGENTON: Thank you,  
9 Mr. Belzer.

10 Is Carol Skiba in the audience? I  
11 know she might have had a problem getting here.  
12 We are going to skip over her.

13 Next up is Carrie Sargeant, she's  
14 the environmental director with the Heart of  
15 Camden.

16 MS. SARGEANT: Good afternoon.  
17 Thank you for letting me speak. The Heart of  
18 Camden is a non-profit community development  
19 corporation based in south of Camden City. Our  
20 community lies directly between both terminals  
21 of the South Jersey Port Corporation to the  
22 north is the Becket Street Terminal and is on  
23 the south is the Broadway Street Terminal, the  
24 waterfront south is a recognized environmental  
25 justice community by the DEP.

1                   What we are doing is we are trying  
2 to work to make the neighborhood a healthy place  
3 to live and work. We would like to recognize  
4 the current work taking place, direct vehicles  
5 and equipment at the port made possible by  
6 funding by the DEP. In addition, we would like  
7 to acknowledge as they had mentioned earlier the  
8 cooperation of the board and the Heart of Camden  
9 and planting a landscaped berm that is acting as  
10 a particulate matter catchment system between  
11 the industry and the neighborhood residents and  
12 we feel this type of collaboration between the  
13 port and the local community is something that  
14 is needed in moving forward to green both the  
15 port and the local community.

16                   In Camden we are concerned about  
17 particulate matter which can trigger asthma and  
18 as we heard earlier impaired lung development in  
19 children and cancer. There are four hundred  
20 trips per year visiting both terminals of South  
21 Jersey Port and we appreciate the DEP's support  
22 of federal regulations controlling import  
23 emissions and we'd like to see it continued. We  
24 don't have numbers on emissions by the ships at  
25 the port. There was an air toxic project done

1 for our community and in that project the  
2 emissions from the ships and from the port in  
3 general were not modeled so we don't have  
4 numbers on that so we don't know what an  
5 improvement would be so something would be good  
6 as Jay didn't have the numbers either we could  
7 maybe get those numbers so we can find out where  
8 we are and where we can go.

9 Our concern, however, is not  
10 simply over the port in our neighborhood, but  
11 with the ships at birth and operations on the  
12 Philadelphia side of the Delaware River. We  
13 would like to encourage the Council to recommend  
14 to the DEP to incorporate interstate  
15 collaboration to improve air quality at the port  
16 so that after it is on our side of the river is  
17 neglected on what is going on the Philadelphia  
18 side. We are directly across wind from  
19 Philadelphia.

20 In our neighborhood, of one square  
21 mile and seventeen hundred residents, there are  
22 indications that impact from diesel emissions  
23 are significant. Aside from the port we have a  
24 county sewerage treatment plant. We have a  
25 trash to steam incinerator. We have two EPA

1 Superfund sites. We have twenty-eight DEP known  
2 contaminated sites. So working with the port is  
3 just one issue that we are contending with.

4                   So from the port alone and from  
5 other industries back in 2003 there were counted  
6 to be over seventy thousand truck trips per year  
7 generated by the port in industry containers and  
8 that Saint Lawrence cement. So that number  
9 might be different now since as Jay said they  
10 actually put the crane down at Saint Lawrence,  
11 but still the numbers would be high. The direct  
12 emissions from the truck traffic at the port  
13 were not modeled in air toxic study. The direct  
14 trucks emissions that is difficult to quantify  
15 as I understand so that would be something that  
16 we'd like to get a handle on. Maybe the DEP  
17 could recommend a DEP get a handle on that as  
18 well and due to the segregation of the port  
19 terminals, there are truck traffic between the  
20 terminals through the residential core of the  
21 neighborhood. There are problems with trucks  
22 waiting to get in to the terminal and  
23 enforcement of the anti-idling regulation is a  
24 problem.

25                   We would like to encourage the



1 exploration of options to address truck traffic  
2 into the port such as a staging area within the  
3 terminal, control idling or mechanism for the  
4 port to enforce upholding idling rules or  
5 regulations of drivers accessing its facility.  
6 I think the port of Camden hasn't had the same  
7 development in terms of from what I've heard  
8 today as the northern ports of the straight.

9                   So that's it, thank you for your  
10 time.

11                   MR. EGENTON: Thank you, Carrie,  
12 appreciate you coming here today.

13                   Wilbur McNeil, I see you are here,  
14 Wilbur. Now, I am not going to do -- how do you  
15 pronounce the park association.

16                   MR. McNEIL: Weequahic.

17                   MR. EGENTON: Good to have you  
18 here.

19                   MR. McNEIL: Thanks for inviting  
20 me. My name is Wilbur McNeil. I am president  
21 of Weequahic Park Association. Grass roots  
22 organization. Our goal is to make Weequahic  
23 Park a designed park, one of the best in the  
24 land. We are located in the proximity of Newark  
25 Airport so sessions like this are critical.

1 I've spoken before you before much to the same  
2 issues.

3 My concern is the air quality in  
4 and around historic Weequahic Park in Newark,  
5 New Jersey. Weequahic Park is in proximity of  
6 the Newark International Liberty Airport so the  
7 problem of harmful air is magnified. One of the  
8 earlier speakers they had a listing of things  
9 the economy, the environment, efficiency and  
10 equity. We start at equity at the top, that is  
11 what we be looking for. We be looking for  
12 equity at the top of our goals. Is there anyone  
13 in the Clean Air Council who represents the  
14 Newark district?

15 MR. EGENTON: Dr. Bielory does.  
16 His facility is U.M.D.N.J.

17 MR. McNEIL: Because I asked the  
18 question the last time. If I come to these  
19 meetings, I rarely see any of the elected  
20 officials from Newark or the Newark vicinity and  
21 Newark is most critical in terms of air quality.  
22 We have probably the worst in the state. I know  
23 they showed charts and they had Teterboro up  
24 here and they used comparison and they didn't  
25 have a comparison from Newark. They had

1 Elizabeth included. They are next-door to each  
2 other.

3 MR. EGENTON: I advise you that  
4 Dr. Bielory is well renowned in the state. As a  
5 matter of fact, when I am driving into work in  
6 the morning, I constantly hear him on 101.5  
7 regarding his asthma reports and such so I know  
8 nice little plug for you so hopefully the two of  
9 you can get together.

10 MR. BIELORY: What medication are  
11 you on.

12 DR. BLANDO: Certainly we should  
13 emphasize you mentioned about officials from  
14 Newark. Our monthly meetings are open to anyone  
15 to attend. We, of course, meet. If someone  
16 from the officials office in Newark wanted to  
17 come to one of our meetings, they certainly  
18 could.

19 MR. McNEIL: I realize that  
20 because I have been to your meetings at the  
21 College of Medicine and Dentistry and at the  
22 airport and it was same results. There were no  
23 elected officials or appointed officials at any  
24 of those meetings.

25 DR. BLANDO: But they can always

1 come.

2 MR. McNEIL: I know it is an open  
3 invitation. The particulate emerging from the  
4 aircraft emissions have created a real nightmare  
5 for the residents of our community and we have a  
6 good doctor up there so he should be able to  
7 attest to that. How many suffer from emphysema  
8 and other respiratory illness. Tragically, the  
9 incidents of asthma among children is soaring.

10 The airline at Newark Airport  
11 continues to operate with impunity while  
12 poisoning the air quality ignoring the  
13 fatalities. This results in absence of none or  
14 no nonsense watchdog agency. If we have a  
15 person from Newark to be looking at those  
16 things, I am sure any test you take about  
17 emissions, Newark will be at the top of the  
18 list. Any kind of emission or any kind of  
19 illness from infant mortality to AIDS, you will  
20 find that the people in our community in the  
21 ninety-five percent. So we need all those  
22 voices that have some kind of expertise in that  
23 area to speak up for the residents because I  
24 also mention that the airport has a license to  
25 kill. They are James Bonds of our era. They

1 take out more people in our community than  
2 traffic accidents and homicides combined.  
3 Homicides get a lot of play, but the emissions  
4 from those pollutants are killing more people  
5 and that is a matter of record.

6 In the state of operation, Newark  
7 Airport imposes an alarming rate of danger to  
8 human health, in particular the residents of  
9 Newark all while enjoying tax exempted status  
10 which results in the Authority of New Jersey and  
11 New York amass in billions of revenues. I heard  
12 a staggering figure of over twenty billion in  
13 revenues coming into the port just here today.

14 Perhaps one of the cruellest facts  
15 of all is that additional flights are planned at  
16 Newark Airport in the absence of any air quality  
17 concerns without efforts to reduce air  
18 contamination which will blanket this area  
19 combined with already the situation of the port  
20 traffic. I would say that the problem with the  
21 development on the greenfields or any other new  
22 development in Newark they are planning to  
23 expand the Newark warehouses and they expand to  
24 put warehouses on brownfields and we were to  
25 anchor institution for that area, we would to

1 anchor institution in the area and time and time  
2 again they come in with plans and ask the  
3 community what they want. The last time we had  
4 community hearings, they came in with concept  
5 plans and they had warehouse and we found out  
6 that they didn't do the air quality testing for  
7 the aquifer, the ground water and that was one  
8 of the options and they were going to  
9 encapsulate that warehouse, but the cruel est cut  
10 of all in that concept they put two basketball  
11 courts next to the warehouse for the community.  
12 That is what we do, we play basketball, but  
13 that's what happens time and time again. They  
14 bring in a community concept and they want to  
15 give the community any funds to put their dreams  
16 or their concepts on the table. They ask us  
17 what do you want and then they want to add onto  
18 what they have already planned. That is  
19 something that cannot work.

20 The Weequahic Park Association  
21 that I represent has been designated by the City  
22 of Newark as an anchor institution both for  
23 empowerment zone and enterprise zone, identified  
24 as area 4802 extends out by the airports.

25 We had two meetings and during

1 those meetings we didn't receive any funding for  
2 organizing those meetings. The city came in and  
3 they had paid somebody to organize it, but we  
4 hosted those meetings.

5 MR. EGENTON: Mr. McNeil, three  
6 minute warning here.

7 MR. McNEIL: I will wrap it up.  
8 The concept plans were not acceptable to us  
9 because of the things I mentioned previously,  
10 but what we would like, the bottom line we would  
11 like air an study done in our community. There  
12 was one done in Elizabeth, but we would like one  
13 done in our area over a reasonable period. We'd  
14 like to have those public hearings in terms of  
15 brownfield development. We would like the  
16 public and schools and private homes to be  
17 soundproof.

18 I read in one of the reports that  
19 if they sued in Morris County in Morristown,  
20 they would soundproof some of the homes down  
21 there, but they had to institute a suit first  
22 and already they have soundproofed some of the  
23 schools in Newark. How did that come to that  
24 determination to report the soundproof some  
25 schools and not soundproof others. We certainly

1 would like those schools in the flight patterns  
2 of those areas soundproofed. We certainly know  
3 that the vegetation in our park has been damaged  
4 and that is not no scientific study, but we can  
5 look at vegetation and trees and things that  
6 they have been affected by the contaminants  
7 coming from those jet fumes that fly over our  
8 park. We would like an assessment of the damage  
9 done and you can make a comparison of the trees  
10 and the bushes in our area and then areas along,  
11 but you need money to do those studies and we  
12 would like that because our bushes and trees has  
13 a dollar figure on it and we believe that the  
14 airport is part and parcel cause of the dying  
15 trees and the vegetation in our park.

16 We would like also in New York  
17 they had the kids with asthma walk around with  
18 these backpacks on the kids with asthma and they  
19 monitored those kids over a period. We would  
20 like that done in our community. As an anchor  
21 institution to two developments, the Weequahic  
22 Park Association accepts and is determined to  
23 fulfill the role as the monitor advocates for  
24 the people of our community where negative  
25 environmental factors threaten. That is



1 basically my reaction. I want to thank you for  
2 having me.

3 MR. EGENTON: Thank you, sir,  
4 appreciate you coming down from Newark today.

5 All right, just checking I know he  
6 was here earlier. Is Bill Wolf still in the  
7 audience or did he leave. I did see him and he  
8 wanted to make a few comments. So all right,  
9 Bill's not responding.

10 Our last scheduled public speaker  
11 is none other than every year it's Jeff Tittle.

12 MR. TITTLE: I also forget about  
13 it.

14 MR. EGENTON: Mike is the director  
15 of the New Jersey Sierra Club. Prior to  
16 accepting directorship of the Sierra Club, Jeff  
17 founded numerous other grass roots environmental  
18 organizations in New Jersey including the  
19 Highlands Coalition and he still serves on the  
20 boards. Many of you know that Jeff is a very  
21 vocal advocate for the environment and many of  
22 us have enjoyed some of his quotes over the  
23 years in the paper and the media. His current  
24 priority is working to keep our parks open under  
25 these difficult budget cuts and, Jeff, obviously

1 thanks for joining us today and we always look  
2 forward to your closing remarks.

3 MR. TITTLE: Thank you, Michael,  
4 maybe some people want to speak afterward, but I  
5 just wanted to start off and say that we see the  
6 ports and the airport not only from an  
7 environmental perspective, but it is a major  
8 part of the economic engine that drives our  
9 state.

10 Quite frankly, there is not a  
11 conflict between the environment and economic  
12 growth for ports. There is currently, because  
13 there is a mismatch between how we manage our  
14 ports and airport and how we deal with the  
15 environment and when we look at those  
16 communities that are directly around the ports  
17 and airports, citizens there for certain  
18 chemicals like benzene and toluene some of the  
19 other volatile organics are basically having  
20 their community levels that are not acceptable.  
21 Eighteen hundred times what is considered the  
22 safe health base standard for certain air toxins  
23 especially those two I just mentioned.

24 You also have tremendous problems  
25 with grand level ozone and particulates. There

1 is really a way to keep our ports going and  
2 growing at the same time using the economic  
3 vitality reports to help clean up our  
4 environments. The Sierra Club is very active.  
5 I know you heard a speaker earlier today talk  
6 about what is going on in Los Angeles. We have  
7 a full-time staff person with the ports of Los  
8 Angeles and part of the vision task for when we  
9 started out with a lawsuit from the Sierra Club  
10 and the other groups because of the implications  
11 in the LA port area, not just air quality, but  
12 also environmental justice and a whole bunch of  
13 things. California is moving forward, but it  
14 got prodded to do so. So hopefully you guys  
15 could help prod this administration and our Port  
16 Authority to move forward in a lot quicker and  
17 better ways for helping our ports.

18 I think the first area I just  
19 wanted to talk about is the whole concept of  
20 access to and from the ports where we see the  
21 off-loading of our containers and ships coming  
22 in trucking fifty miles down the Turnpike to  
23 Jamesburg or even further south down to  
24 Washington Township and then getting broken out  
25 to distribute and extend back north and other

1 places from there.

2                   As we are doing it, we are passing  
3 miles of brownfields, underutilized sites closer  
4 to the ports even next to the ports that cannot  
5 only be easier to drop off, but serviced by  
6 rail. I think that is one of the biggest  
7 problems that we face. That our distribution  
8 system is not connected to our ports. I think  
9 another problem that we see, I will use the  
10 example of the failure of state and the region  
11 to look more reasonably the ocean terminal site  
12 in Bayonne by the federal government would make  
13 sense for a container port. It is a deep water  
14 port. You won't have to raise the Bayonne  
15 Bridge. It's deep enough where we dredge it,  
16 you can bring in any size ship and is big enough  
17 that you can go from container to rail right  
18 there.

19                   One of the problems we face at  
20 Newark in particular is that the older channels  
21 and the warehouses there are so close, it is  
22 almost impossible to go from container to rail  
23 so we off load it onto trucks and we ship them  
24 down the Turnpike past plenty of other sites  
25 creating a tremendous waste of fuel and air

1 quality problems for the region.

2                   So one of the things that we are  
3 part of with the Coalition for Healthy Ports  
4 here is where we are as part of the coalition  
5 for safety ports in the West Coast that we have  
6 to deal with trucks. We have to have enforced  
7 the idling, electric hook-ups in the wintertime,  
8 cleaner fuels and a whole safe and clean truck  
9 program to be part of this. We also ought to be  
10 looking at rail alternatives and one of the  
11 issues I will again bring up besides moving is  
12 to have the warehouses closer. There is a rail  
13 line that runs from Carteret down to New  
14 Brunswick and ends there. We are talking about  
15 widening the Turnpike for more trucks. We can  
16 also talk about extending that rail line down to  
17 Jamesburg and even down to Washington Township  
18 so we can have freight as well so we can use the  
19 freight system and run electric diesel versus  
20 running dirty trucks.

21                   I think there is a lot of things  
22 we could do. Even how we manage the containers  
23 on-site. Most containers come in a week, even  
24 less. We have no place to put them. Putting  
25 all over North Jersey to find a way to fund

1 them. There is better systems to manage  
2 containers. They basically a stackable system  
3 that uses electric cranes where you can actually  
4 on a thirty acre parcel maintain and access  
5 container and this thirty acre parcel that you  
6 would do on a three hundred acre parcel  
7 normally. It uses a lot less energy and a lot  
8 less pollution, but it is a better management  
9 system. Those are the kinds of things we should  
10 be doing.

11 Right now it is mostly jobbers  
12 coming in and out instead of having a rationale  
13 system through trucking firms that can actually  
14 have the trucking coming in in sync with the  
15 ships coming in which we don't do now. That is  
16 why there is so many delays and pollution, but  
17 people are stuck there for hours if not days  
18 sometimes. So better management of our ports  
19 would do a lot for air quality. Better fuels  
20 not only for trucks, but for vehicles that are  
21 off road to the ports themselves.

22 We can use our ports and our  
23 warehouses. It is there as well to promote  
24 clean energy by doing green roofs and solar  
25 roofs and things like that to mitigate for

1 pollution problems we get from our ports. There  
2 are so many other things, potential things that  
3 are out there, we just have to think a little  
4 more outside the box. But we also have to think  
5 about the communities around them.

6           As part of growth in our ports and  
7 airports we need to develop a system of  
8 mitigation and pollution offsets for the  
9 communities around there that is getting the  
10 disproportionate impact of pollution. Things as  
11 simple as planting trees and having buffers and  
12 health studies and health department to help  
13 those communities adapt or deal with the  
14 pollution that they are impacted with, but more  
15 perfectly is to develop strategies to help lower  
16 the pollution overall.

17           There are power plants in the same  
18 areas that could be switched from coal to  
19 natural gas to help lower overall pollution for  
20 that reason and, therefore, allow ports to  
21 grow without having the same kind of impact to  
22 the public. There is other things that we  
23 should be looking at. We shouldn't just look at  
24 the port by itself. Look at the region where  
25 can we get reduction so the ports grow and not

1 get this the kind of bubble of pushing more and  
2 more toxins in our communities.

3           Quite frankly, there is a  
4 tremendous amount of resource there and we need  
5 to try to tap into it as we have done in some of  
6 the other problems with the port with the  
7 dredging. We are looking at doing wetlands  
8 restoration, buying open space. We take that  
9 same kind of energy and look at our ports and  
10 dealing with pollution from air as well as  
11 trying to help the communities around it and not  
12 be a problem to the communities.

13           Again, I will use another good  
14 example of end cap site, old landfill five miles  
15 from the port to be served by electric diesel.  
16 Instead we want to build condos. A garbage dump  
17 would be a great place for a warehouse and  
18 distribution. Conrail main line right there as  
19 well as the Turnpike so, again, I think we need  
20 to look at regional planning in the way of  
21 making our ports better because as we do that we  
22 will actually help air quality overall.

23           So there is a disconnect between  
24 what happens at the ports, what happens in the  
25 region around the ports and the rest of New



1 Jersey. We need to keep our ports growing, but  
2 need to do it in a way that's green and deal  
3 with the pollution problems that come from it.

4 Thank you.

5 MR. EGENTON: Thanks, Jeff, I  
6 appreciate it.

7 Before we formally close this  
8 portion of the public hearing, as I said and I  
9 will say again, the written comment period is  
10 open for another month and we welcome those  
11 comments.

12 I do want to acknowledge my fellow  
13 Council members, particularly the ones that  
14 helped put this hearing together today, Chairman  
15 Blando, Toby Hanna, John Maxwell. What did you  
16 do with Jorge Berkowitz, he left and, of course,  
17 the other Council members that stayed here  
18 today, Dr. Bielory, Dr. Zhang, Joe Constance,  
19 Ferdows, Pam, really appreciate all your support  
20 and work.

21 The intent here is for the Council  
22 to convene for the next two months and we will  
23 give a recommendation, consideration here today  
24 and we will discuss it amongst ourselves and  
25 there will be a report issued at our July

1 meeting to the Commissioners and possibly at  
2 that event in New York that the EPA is putting  
3 together. So we will keep people in time of  
4 where that venue will be, but appreciate  
5 everyone hanging in there and we will take  
6 everything into consideration.

7 So I will formally make a motion  
8 to adjourn.

9 DR. BLANDO: Second.

10 MR. EGENTON: All those in favor.

11 (Whereupon, everyone voted in  
12 favor.)

13 MR. EGENTON: Thank you very much  
14 folks.

15  
16 (Whereupon, the proceedings were  
17 concluded at 3:45 p.m.)

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C E R T I F I C A T E

I, ANTHONY HOFMANN, a Certified Court Reporter,  
and Notary Public within and for the State of New  
Jersey, certify that the foregoing is a true and  
accurate transcript of the stenographic notes of  
said witness(es) who were first duly sworn by me,  
on the date and place hereinbefore set forth.

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ANTHONY HOFMANN, C. C. R.  
LICENSE NO. XI 01854