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COMMONWEALTH OF PENNSYLVANIA
HOUSE OF REPRESENTATIVES
HOUSE TRANSPORTATION COMMITTEE
MELLON INSTITUTE SOCIAL ROOM
CARNEGIE MELLON UNIVERSITY
4400 FIFTH AVENUE, PITTSBURGH, PENNSYLVANIA

FRIDAY, NOVEMBER 6, 2009

PUBLIC HEARING - PENNSYLVANIA HIGH-SPEED MAGLEV PROJECT

BEFORE:

Representative Joseph Markosek, Majority Chair

Representative Richard Geist, Minority Chair

Representative Paul Costa

Representative Dick Hess

Representative Mark Keller

Representative Mark Longietti

Representative Chelsa Wagner

ALSO PRESENT:

Stacia Ritter, Executive Director of the Majority Staff

Eric Bugaile, Executive Director of the Minority Staff

I N D E X

	NAME	PAGE
1		
2		
3		
4	Toby Fauver	4
5	Mark Yachmetz	7
6	Jackie Erickson	16
7	Fred Gurney	37
8	Walter Buss	47
9	Bill George	63
10	Sally Hass	71
11	Don Dunlevy	79
12	Scott N. Paul	95
13	Torrey Babson	103

14

15

16

17

18

19

20

21

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24

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1 CHAIRMAN MARKOSEK: Good morning, everybody.
2 The meeting will come to order, please. First order of
3 business, I would like to recognize an old -- I
4 shouldn't say old -- a friend of mine, especially from
5 my Port Authority days, Henry Brown. I would like to
6 ask that Henry lead us in the Pledge of Allegiance.

7 (The Pledge of Allegiance was recited.)

8 CHAIRMAN MARKOSEK: Thank you very much. I
9 also want to, first of all, thank the folks from CMU for
10 their wonderful hospitality here today in allowing us to
11 use this very beautiful room for our hearing. Also,
12 PCN, I would like to thank them for their efforts in
13 being here as well. I don't have a whole lot to say.
14 I'd like to get started.

15 I just want to say that we're having this hearing to
16 get a little more information on Maglev. Chairman Geist
17 and I had the opportunity to ride the demonstration
18 Maglev Project over in Germany back in 2001, and it was
19 a very interesting experience. As we know, a lot of
20 these big projects, the devil is always in detail, and
21 that is part of what our committee is all about, is
22 trying to figure out the details and try to move
23 transportation projects along.

24 With that, I would like to recognize Chairman Geist
25 for some remarks.

1 CHAIRMAN GEIST: Thank you very much,
2 Chairman Markosek.

3 It has been a long, long time for me in this business
4 of high-speed rail. That trip in 2001 when we were in
5 Bremen, the Chinese signed a contract that very day that
6 we were there to build a Transrapid in China. As this
7 movement all over the world keeps progressing, we in the
8 United States, I think, are finally going to get a
9 start. I am just pleased to be here today, and have the
10 members of our committee hear some existing news coming
11 out of Western Pennsylvania.

12 CHAIRMAN MARKOSEK: Thank you very much,
13 Chairman Geist.

14 With that, we'll get started. We have a panel of
15 folks that we're going to start out with. First of all,
16 we have Mr. Toby Fauver who is the Deputy Secretary for
17 Local Area and Transportation with PennDOT. We have Mr.
18 Mark Yachmetz who is Associate Administrator for
19 Railroad Development of the Federal Railroad
20 Administration. Also, Jackie Erikson who is the
21 Southwest Pennsylvania Regional Director for U.S.
22 Senator Bob Casey, who could not be here, and she will
23 read a statement from him.

24 With that, we will start with Mr. Fauver.

25 MR. FAUVER: Thank you, Chairman Markosek,

1 Chairman Geist and other members.

2 Pennsylvania has been involved in the development of
3 this Maglev Project in Pittsburgh for quite some time.
4 I wanted to focus my remarks on the status of the
5 project, and the status of some of the applications that
6 have been submitted for funding. This high-speed Maglev
7 Project is approximately 54 miles in length. It would
8 include five stations running from the airport,
9 Pittsburgh International Airport, Greensburg, through
10 Downtown Pittsburgh. It's projected to reach or exceed
11 speeds of 240-miles-per-hour. The cost of the project
12 when it would be constructed based on 2003 cost
13 estimates is about 4.5 billion dollars. The ridership
14 of the project was estimated to be about 41,000 riders
15 per day. The annual operating and maintenance costs of
16 the project is about 31 to 32 million dollars, of which
17 fare revenue from passengers, and advertising, and other
18 revenue coming in for the project are projected to cover
19 100% of the costs for operating the project.

20 To date, there has been about 30 million dollars
21 committed and expended on the project, including almost
22 7 million dollars in state funding to match federal
23 funding that has been committed to complete the
24 Environmental Impact Statement, the planning work, and
25 10 to 15% conceptual design of the project. Most of the

1 work has been conducted through the Port Authority of
2 Allegheny County. PennDOT has issued grants to the Port
3 Authority of Allegheny County, and Port Authority has
4 proceeded with the project from there.

5 In 2005, safety moved, included 90 million dollars of
6 funding, additional funding eligible for Maglev projects
7 to continue development work. 45 million dollars was
8 designated for projects east of the Mississippi River.
9 Pennsylvania submitted an application upon notice of
10 funding availability on February 10th of 2009 for 45
11 million dollars. Of that funding, the entire amount
12 available for the eastern part of the country. That
13 funding was to be focused on finishing environmental
14 work, revising, updating the financial plan, cost
15 estimates and putting together, basically, a 30%
16 design-build package to have this project ready to go to
17 Alfred Design and Build Construction.

18 We were awarded 28 million dollars a little bit
19 earlier this year from the Federal Railroad
20 Administration, and we're currently in the process of
21 working with the Federal Railroad Administration on the
22 revised scope of work for that funding. We also
23 received an earmark of close to a million dollars of
24 federal funding from 2009 appropriations. That earmark,
25 we do have an application into the Federal Railroad

1 Administration, working on getting a grant agreement
2 with the Federal Railroad Administration for that
3 funding. That funding is intended to continue for the
4 environmental activities to prepare the final
5 Environmental Impact Statement for publication. The
6 majority of that funding is to design and extend a
7 fit-up table for the Maglev guideway beam construction.

8 We're currently working with local and federal
9 partners, Port Authority of Allegheny County, and other
10 local partners, as well as, the Federal Railroad
11 Administration to get this grant funds under agreement.
12 In addition, we submitted earlier this year an
13 application for 2.3 billion dollars of stimulus funds
14 for the first leg of construction of this project. It
15 would go from the airport to downtown. That 2.3 billion
16 is intended to quickly follow on the completion of the
17 design-build package, that that project could go to
18 construction.

19 That concludes my remarks.

20 CHAIRMAN MARKOSEK: Okay. Thank you. Mr.
21 Yachmetz -- pardon me if I didn't pronounce that
22 correctly -- from the Federal Railroad Administration.

23 MR. YACHMETZ: I am happy to appear here
24 today to discuss initiatives of President Obama, Vice
25 President Biden and Secretary of Transportation Ray

1 LaHood, and that is to develop high-speed rail
2 transportation in America. My name is Mark Yachmetz. I
3 am Associate Administrator for Railroad Development. In
4 that role, I oversee FRA's investment programs for the
5 rail industry. This includes a direct and complex
6 relationship with the National Railroad Passenger
7 Corporation, better known as Amtrax, Railroad Research
8 and Development, the Railroad Rehabilitation and
9 Improvement Program, loans and loan guarantees to the
10 industry. Several programs of discretionary grants,
11 including the new presidential high-speed rail
12 initiative, and projects specifically identified by
13 congress, including the Maglev Employment Program
14 authorized recent service transportation.

15 Before I begin, I wish to note that the guys from the
16 White House on these limitations of the American
17 Recovery and Reinvestment Act of 2009, which some people
18 call Recovery Act or the stimulus bill, prevents me from
19 discussing any application for financial assistance
20 pending before the Federal Railroad Administration, or
21 the Department of Transportation.

22 So with that as, sort of, the lead-in, the discussion
23 of high-speed rail tend to begin with the fundamental
24 question: What is high-speed rail? Some prefer to
25 confine high speed by peak speed, and, say, 200 miles

1 per hour. Some say high speed is average speed, or trip
2 time. FRA in a 1997 report, High-Speed Rail
3 Transportation for America, used the more
4 market-oriented definition, that is, service that could
5 cost effectively be a preferred avenue for intercity
6 travelers in the specific transportation market. Using
7 that definition, high-speed rail is service that is
8 superior from the time we have it as a standpoint to air
9 and/or auto on a door-to-door basis. In other words, if
10 my boss -- and I have three -- leaves his home in
11 Chicago and travels to a meeting in St. Louis and the
12 total trip time by rail is better than flying or
13 driving, then that rail service is high-speed. What
14 that means is peak speeds and average speeds of
15 high-speed rail are not one set number and shouldn't
16 vary by market served. The speeds needed to effectively
17 serve Los Angeles and San Francisco, a distance of 450
18 miles, is different from speeds needed to serve the
19 market between Washington and Richmond, which is a
20 distance of 90 miles.

21 In our vision for High-Speed Rail America, we would
22 require to publish under the Recovery Act. We used four
23 definitions to talk about the different options of
24 high-speed rail. Conventional rail, which is, sort of,
25 what you see out there today. Services up to 100 miles.

1 Peak speeds in the 79 up to the 90-mile-an-hour range.
2 The merging high-speed rail, 100 to 500 miles in lengths
3 with top speeds of 90 to 110. Regional, high-speed
4 regional, which would be speeds 110 to 150 that could
5 serve 100 to 500 mile ranges in terms of market. And
6 then express, where major population centers are between
7 200 and 600 miles apart, and with few intermediate stops
8 at speeds in excess of 150-miles-per-hour.

9 So in discussing high-speed rail, we need keep in
10 mind that we're talking about range of technologies and
11 range of investment options. They each have their own
12 sets of opportunities and challenges. One of the
13 reasons why we're doing high-speed rail is high-speed
14 rail aligns very closely with this administration's
15 overall strategic transportation bills. High-speed rail
16 is very compatible with our transportation choices,
17 promoting energy efficiency and environmental quality,
18 and building a foundation for economic competitiveness
19 and supporting the inner-connected livable communities.

20 However, with high-speed rail developing, we have
21 great opportunities, but we also have great challenges.
22 The first is safety. FRA's first and foremost mission
23 is safety. If high-speed rail is to be successful, it
24 must be safe. Newton's Second Law of Motion was not
25 revealed by high-speed rail. That is, that force equals

1 mass X acceleration. It has significant implications
2 for high-speed rail. When things go wrong at high
3 speed, a derailment as an example, repercussions can be
4 significant. Then you point to the strong safety record
5 of foreign systems, operating purpose-built
6 infrastructure, draw the conclusion that high-speed rail
7 is inherently safe. That is just not the case. Then it
8 becomes from superior design, and factoring superior
9 operating requisites, superior maintenance and above
10 all, superior vigilance. At FRA, we call this a strong
11 safety culture.

12 We have recently made available for comment at
13 high-speed rail safety strategies. The goal of this
14 strategy is to address how we will establish safety
15 standards and program guidance for high-speed rail, and
16 how we will apply system safety approach to address
17 safety concerns on specific rail lines, and how we can
18 effectively manage trains and emergencies. This
19 strategy endeavors that we achieve uniformly safe rail
20 passenger service, regardless of the speed, and
21 regardless of the technology.

22 Another challenge we have is the capability of the
23 states. There are a handful of states that have been
24 actively engaged in railroad issues for many years.
25 Unfortunately, Pennsylvania is one of those.

1 Unfortunately, states with strong and experienced
2 rail-oriented institution structures are actually the
3 exception rather than the rule. This is understandable,
4 because for the last 50 years, the Federal Investment
5 Rail, to the extent that it has existed, has been really
6 a bipolar relationship between the Department of
7 Transportation and Amtrak. So now there is a
8 significant pressing need to help states develop and
9 maintain internal staff resources and capabilities that
10 oversee the management of planning and programing of
11 high-speed rail.

12 Again, one of the other issues that we are really
13 pressing on is the status of planning. A few states
14 have been actively planning. Many states have not. We
15 need to bring them up through the planning process, the
16 environmental process, much the same way as the highway
17 and transit programs have been developed over the years.
18 One of the things people don't focus on, but it's very
19 important, is the intellectual infrastructure. For
20 years, for decades, rail industry was a major driving
21 force in our economy. But beginning with the decline of
22 the railroads in the 60's and 70's, and then the
23 slimming down of the railroads in the 80's and the 90's,
24 the demand for experienced engineers and planners with
25 rail operations plummeted. Those that are on the job, a

1 significant percentage of them are approaching
2 retirement. So a major challenge we face today is how
3 do we rebuild the intellectual infrastructure.

4 Finally, one of the other biggest challenges we face
5 is establishing a sustainable program. There have been
6 many efforts to develop high-speed rail in this country.
7 In fact, in 1967 when the Department of Transportation
8 was created and the Federal Railroad Administration was
9 created, we were formed from the Bureau of Safety and
10 the Interstate Commerce Commission, and something called
11 the Office of High-Speed Ground Transportation in the
12 Department of Commerce. That is 1967, 40 years ago. To
13 date, with a few notable exceptions, high-speed rail has
14 not been successful. If we spend 8 billion dollars of
15 the Recovery Act funds on terrific projects that produce
16 real results, and then our program is done, then we have
17 not been successful. So our challenge, and the
18 challenge for the administration, the congress and our
19 state partners is how do we find a way to make this
20 sustainable? Much in the same way that in the
21 mid-1950's, the administration, congress and the states
22 found a way to make the interstate highway system
23 sustainable. An integral part of that will be managing
24 expectations. Not everybody is going to get their
25 high-speed rail project, per se, program, or the first

1 dollars of the program.

2 In fact, the interest that we have seen by states
3 exceeds the funds available today, the funds available
4 next year, or over five years. But that was the story
5 with the interstate program in the 1950's. And that is,
6 we need to find a mechanism to address those concerns.

7 As I discussed earlier, the future high-speed rail
8 might deal with a number of different technologies. We
9 frequently say at FRA we are technology neutral. I know
10 one specific technology of interest in Pittsburgh is
11 Maglev. To date, with the exception of an airport
12 shuttle in China, Maglev technology resides in test
13 facilities awaiting commercial applications. This has
14 been the case for at least a decade. A legitimate
15 question that could be asked is, what must be done to
16 determine whether Maglev will have a role in the future
17 of our high-speed rail system, and if so, what is the
18 nature of that role?

19 In the Maglev Deployment Program, authorized by
20 recent Federal Service Transportation, Congress has been
21 clear that the next steps in the future of high-speed
22 Maglev, just as the next steps in the future of
23 high-speed rail, will involve a partnership between the
24 U.S. Department of Transportation and state departments
25 of transportation, as opposed to localized advocates of

1 a particular technology. I believe this was done by
2 Congress, in part, to rest concerns by some, the need to
3 apply to the cost and the planning the same discipline,
4 the same perspectives that states provide highway
5 projects and transit projects. The State of
6 Transportation regularly undertake major infrastructure
7 projects and have an intimate knowledge of the
8 challenges, including cost estimation of developing
9 infrastructure. It's better to take a hard look at the
10 ridership estimates through the same agencies that also
11 develop and take a hard look at potentials for ridership
12 of transit projects.

13 So FRA looks forward to working with PennDOT and Mr.
14 Fauver in developing the strategy for the next steps in
15 reviewing the proposed Maglev Project to be funded by
16 the grants authorized by safety and technical
17 amendments.

18 In closing, these are truly exciting times to be
19 involved in the railroad industry and the Federal
20 Railroad Administration, and I'd be happy to discuss
21 these matters with you after Jackie.

22 CHAIRMAN MARKOSEK: Thank you very much,
23 sir. Very good testimony. Before we go on, I just want
24 to recognize members. Our new mom has arrived,
25 Representative Chelsa Wagner, Allegheny County.

1 Representative Mark Longietti, sitting next to her, from
2 Mercer County. Representative Paul Costa, my neighbor
3 here in Allegheny County as well. We have Stacia
4 Ritter, Executive Director of the Majority Committee
5 Staff. Of course, Chairman Geist. Mr. Eric Bugaile,
6 who is the Executive Director of the Minority Staff.
7 Representative Mark Keller from Perry County, and
8 Representative Dick Hess from Bedford County. So they
9 have traveled a ways to be here today.

10 With that, Ms. Erickson. Jackie Erickson, Southwest
11 Pennsylvania Regional Director for U.S. Senator Bob
12 Casey. The microphone is yours.

13 MS. ERICKSON: Thank you, Chairman, and
14 thank you for allowing me to speak on behalf of Senator
15 Casey today.

16 Chairman Markosek, Chairman Geist and distinguished
17 Members of the Committee, thank you for the opportunity
18 to share my views on high-speed rail and its potential
19 for Pennsylvania. I regret that my official duties
20 preclude me from attending today's hearing. Let me also
21 take this opportunity to specifically thank you, Mr.
22 Chairman, for your leadership on this issue.

23 Development of an efficient and reliable passenger
24 rail system across the Commonwealth is one of my top
25 transportation priorities. That is one of the reasons

1 that I was proud to support the American Recovery and
2 Reinvestment Act. This legislation represents the first
3 real commitment to the development of a nationwide
4 high-speed rail system. The 8 billion dollars provided
5 to this legislation is a good first start, but we all
6 know that we are going to need to sustain the federal
7 commitment and foster a strong partnership with the
8 states if the vision of a high-speed passenger rail
9 network is to come into fruition. I am confident that
10 the Obama Administration's commitment to this vision is
11 firm, and I look forward to working with the President
12 to further develop this policy.

13 As the Committee may know, Congress will soon
14 finalize the bill that will fund our nation's
15 transportation programs for fiscal 2010, and I remain
16 hopeful that this bill will include additional funding
17 for high-speed rail. When the Senate begins
18 consideration of this bill that will reauthorize federal
19 surface transportation programs for the next several
20 years, I am confident that we will strengthen this
21 commitment even further.

22 Part of the reason I strongly support the development
23 of a high-speed rail network is because Pennsylvania is
24 well-positioned to reap the benefits of such a system.
25 Communities across the Commonwealth have strenuously

1 advocated for rail projects that will encourage economic
2 growth and improve the quality of life for area
3 residents. In addition to the economic development
4 opportunities that these projects will open, the
5 environmental benefits of high-speed passenger rail are
6 beyond dispute.

7 As community leaders and local officials move forward
8 with passenger rail initiatives, I stand ready to
9 support their efforts. Since coming to the Senate, I
10 have been strongly supportive of several passenger rail
11 projects. Specifically, I have been strongly involved
12 with: Establishing a magnetic levitation line between
13 Pittsburgh International Airport, which was just awarded
14 28 million in federal funding; improving rail
15 infrastructure on the existing Amtrak line connecting
16 Pittsburgh to Harrisburg. For the record, I strongly
17 believe that we need to find an effective way to connect
18 this line to State College; ensuring that passenger rail
19 service connecting Cleveland to Buffalo, via Erie, is
20 included in our nation's high-speed rail network;
21 improving Keystone Corridor rail service connecting
22 Harrisburg to Lancaster and onto Philadelphia and
23 beyond; in my home county of Lackawanna, I have been
24 strongly engaged in the effort to restore passenger rail
25 service between Scranton and the New York metropolitan

1 area; and I continue to work with advocates of other
2 projects in the Lehigh Valley and Philadelphia suburbs.

3 While I have the opportunity, I'd like to make clear
4 to the Committee that I'm committed to working with you
5 on these projects and other efforts.

6 In my view, we need to take a "multi-modal" approach
7 to our nation's transportation policy. That means that
8 we need to better understand how our highway programs
9 integrate with our nation's transit, rail and aviation
10 policies. We need to focus on the most effective way to
11 reduce congestion and improve the ability of our
12 citizens to move from Point A to Point B. Congestion is
13 not only frustrating for commuters; it also brings with
14 it significant economic costs in the form of lost time
15 and wasted fuel. We also need to be conscious of the
16 environmental consequences of congestion that result
17 from increased carbon emissions. Improving our
18 transportation system is a national imperative that is
19 vital to our economic health, and the federal government
20 needs to forge a strong partnership with the states in
21 order to address our transportation needs. Simply
22 stated, we need to increase the transportation options
23 available to commuters and strengthen the connectivity
24 of the various modes of transportation. High-speed rail
25 is an important part of our transportation puzzle.

1 Creating a high-speed rail system is not without
2 challenges. I think that we all have to be honest about
3 the costs involved, particularly in an era of national
4 deficits and strained budgets on the state level. These
5 realities require us to identify creative ways to
6 finance these projects and to entice the private sector
7 to team with the public sector on key projects. The
8 fact that we are having this conversation on a national
9 level is a testament to the President's leadership on
10 this issue, and I will work as your United States
11 Senator to encourage a robust federal commitment to this
12 effort.

13 Thank you very much for the opportunity to share my
14 views.

15 CHAIRMAN MARKOSEK: Thank you very much.
16 Before we get to questions of the two gentlemen, I also
17 want to, for the record, mention that Congressman Jason
18 Altmire could not be here, but he has submitted
19 testimony for the record. Senator Arlen Specter also
20 could not be here, but his staffperson, Stan Caldwell,
21 is here today and will submit written testimony for the
22 record. And also, Congressman Tim Murphy could not be
23 here, but his staffperson, Nate Availa (phonetic), is
24 also here, and Congressman Murphy has also submitted
25 written testimony for the record.

1 I wanted to make sure that we recognize those folks
2 and their efforts here today.

3 Do any of the Members of the Committee have any
4 questions for the gentlemen?

5 Representative Paul Costa.

6 REPRESENTATIVE COSTA: Thank you, Mr.
7 Chairman.

8 Actually, I have a comment first that will lead into
9 my question. In 2001, September 11th, I thought for
10 sure when all of the airplanes were grounded that that
11 was going to be the government's move to some other form
12 of rapid transportation. I'm surprised it took this
13 long, but we are finally moving forward. I just thought
14 that was the right way to go.

15 Having said that, we have, in this area, as you
16 mentioned, we have Maglev. Maglev, obviously, has been
17 pushing for -- Clinton Administration they were narrowed
18 down, and then under the Bush Administration, it kind of
19 was delayed. Now, under the Obama Administration, we're
20 back on track again.

21 Toby, you had mentioned that there was money that was
22 earmarked in June of 2008, and still no money has been
23 released. You also mentioned that you have 28 million
24 dollars of federal money. Is that on-hand, or is that
25 just a promissory that you're going to get it?

1 MR. FAUVER: It has been awarded, and we're
2 in the process of working on a grant agreement with the
3 Federal Railroad.

4 REPRESENTATIVE COSTA: But you actually
5 don't have the money?

6 MR. FAUVER: Right.

7 REPRESENTATIVE COSTA: The federal
8 government still has the money?

9 MR. FAUVER: Right.

10 REPRESENTATIVE COSTA: That leads me to you,
11 Mr. Yachmetz. Thank you for testifying.

12 Why such a delay? June of '08, the money became
13 available. It's over a year-and-four-months, almost
14 five months now, and we still don't have the money.
15 Also, my other concern is, Senator Specter, in February
16 put an earmark in for close to a million dollars for,
17 what I believe it was for Maglev. I'm afraid -- and
18 nothing has been done about that. We have not been able
19 to receive -- and when I say "we," our area for Maglev
20 -- because it does create a lot of jobs in our region.
21 There is a million dollars that is sitting there, and my
22 fear is -- and I want you to address both questions, why
23 does it take so long -- and my fear is, what happens to
24 that million dollars if we don't act on it soon? If a
25 new cycle comes up, does Senator Specter have to put in

1 another application? And if he does have to put it in,
2 what are the chances of getting that million dollars
3 again?

4 MR. YACHMETZ: With regard to the funding
5 for projects east of the Mississippi River, which is a
6 June of '08 effort, first off, it was a competitive
7 design, a competitive effort, a competitive selection.
8 The outgoing administration decided that they wanted the
9 applicants to have a robust period of time to prepare
10 their applications. So the applications were not due
11 until mid-February of 2009. A number of things happen
12 when you have new administrations. Just normal, new
13 administrations. Among other things, the leadership for
14 the Department of Transportation goes away. So we have
15 to have new leadership come in. On top of that, another
16 thing that happened was the American Recovery and
17 Reinvestment Act, which created a whole lot of new work.

18 One of the interesting aspects of the Recovery Act
19 was that the only people provided in the Recovery Act
20 were Inspector Generals and the Government
21 Accountability Office to oversee implications of the
22 Recovery Act. But no people were provided to actually
23 implicate the act. In my particular area in 2008, we
24 put out 50 million dollars worth of discretionary
25 rights. This year, we have 8 billion to put out with no

1 new people, no new resources. So you have the
2 combination of getting the new management team on, and
3 also the competing priorities for the attention of
4 limited staff, and that is one of the reasons why that
5 particular -- it took a while to get the final decisions
6 made by the new political leadership in the department.

7 With regard to the million dollars, the million
8 dollars was earmarked in the Federal Highway
9 Administration, not the Federal Railroad Administration
10 budget. It is very much an inside baseball-type of
11 issue. Not only is it earmarked the Federal Highway
12 Administration, it's a different color of money, too.
13 It's highway trust fund dollars. So these folks had to
14 be transferred to a number of budgetary processes, and
15 once they were, we notified PennDOT. One of the issues
16 that we had was that the prior grant entity that we had
17 dealt with in the past at Port Authority actually wanted
18 to bow out of the role of being the grantee of the
19 funds. So PennDOT is picking up that part, too, so
20 we're working with them on developing the scope of the
21 work for that. The money doesn't go away. It's not
22 like once we have a procreation cycle, the funds won't
23 be available. Once we wrap up the scope, we are
24 exchanging grafts and discuss the work once we wrap that
25 up.

1 REPRESENTATIVE COSTA: You mentioned about
2 the stimulus, and again, maybe because Maglev is from my
3 area and I see a future of large employment, a lot of
4 jobs being created. I'm really excited about this
5 project and we're close. We were always told when the
6 stimulus bill was coming out that it was projects that
7 are ready to go within so many months. Maglev has been
8 ready to go for years. They did all of their
9 environmental impact studies. They did everything that
10 they had to do, I think, with the exception of maybe
11 acquiring property, everything is ready to go. So
12 whether there was one person in the office, in my mind,
13 I think that would be a no-brainer for them to look at
14 and say, "Okay, this is ready. Here is the money.
15 Let's keep moving."

16 You mentioned before about quality work, and superior
17 design, and superior manufacturing. You may or may not
18 know this, but Maglev has contracts with the United
19 States Navy, so they must have pretty high standards
20 that they can have the safety requirements and the
21 manufacturing requirements. Again, I mean, living in
22 this area and knowing the impact that this could have, I
23 would like to see this project start forward in my
24 lifetime. I'd like to be able to take Maglev to
25 Harrisburg, which is pretty far off.

1 CHAIRMAN GEIST: Or at least Altoona.

2 REPRESENTATIVE COSTA: I do want to see this
3 move forward. Again, I don't understand why there are
4 all of these delays when the project is ready to go,
5 they have met every requirement that they have to meet,
6 and we still can't get the money that seems that
7 everyone agrees and everyone has approved. That is my
8 issue.

9 MR. YACHMETZ: Well, I'll trying to avoid
10 discussing pending applications by discussing where we
11 are on the 28 million dollars. The project is not ready
12 to go. It's not designed. We don't even have 30%
13 design yet, so there is still a substantial amount of
14 design and research that needs to be done -- not
15 research, but basic, hard engineering. I guess I, kind
16 of, have the perspective of a civil engineer. There is
17 a lot that needs to be done before you can actually get
18 the contracts to start construction.

19 The other thing, talking generically about the
20 Recovery Act, is the high-speed rail part in the
21 Recovery Act is treated differently than other parts of
22 the Recovery Act. Most funds on the Recovery Act had to
23 be obligated before -- within a matter of a few months,
24 and the projects that had to be finished within two
25 years of the sign of the bill, which was February 2011.

1 We underlaid the high-speed rail 8 billion dollars. Our
2 obligation, we do not even have to obligate funds until
3 September 30, 2012, which isn't to say that we are going
4 to take that long circle -- that reflected a different
5 view, which is, we're trying to stand up a program on a
6 national basis, and we want to hear from all of the
7 folks from high-speed rail and take a hard look and find
8 the most meritorious projects and get the money.

9 So, yes, we would like to get projects underway, and
10 we actually did go out with the solicitation early on in
11 the Recovery Act to see who actually could put shovels
12 in the ground, in very short order, and we're hoping to
13 have that underway this coming work season.

14 REPRESENTATIVE COSTA: Thank you very much.
15 Thank you, Mr. Chairman.

16 CHAIRMAN MARKOSEK: Thank you.
17 Representative Mark Longietti.

18 REPRESENTATIVE LONGIETTI: Thank you, Mr.
19 Chairman. Thank you for your testimony.

20 Mr. Yachmetz, are you able to tell us approximately
21 how many applications that have been submitted under the
22 Recovery Act, and approximately how much the total
23 dollar figure is that is available?

24 MR. YACHMETZ: I actually don't have the
25 numbers in front of me, but I can come pretty close. If

1 you add those projects, which we said we would look at
2 individual projects, adding a siding somewhere that
3 could provide improved passenger rail service, but could
4 be done very -- under construction within a matter of a
5 few months. There were 214 of those applications with 7
6 billion dollars. And those were the applications we
7 received in August. Applications we received about a
8 month ago was for the larger commitment to -- I run the
9 risk by just identifying and using an example -- but a
10 project proposed by a state, overall a program
11 improvement between two cities. Those came in about a
12 month ago, as I said, and there were 45 applications and
13 the total was 50 billion dollars. So we effectively
14 have about 270 applications, in rough numbers, from 38
15 states, for 57 billion dollars, for the 8 billion
16 dollars we have right now.

17 REPRESENTATIVE LONGIETTI: Are you able to
18 point to any current high-speed rail systems in the
19 country that have been successful projects that are out
20 there and operating?

21 MR. YACHMETZ: If you use a trip time
22 definition of high-speed rail, because lots of people
23 look at high-speed rail differently. One of the things
24 that we find, if you go between major urban areas in
25 less than three hours, you're serving a market. So if

1 you want to take Washington to New York, which is a 2
2 hour and 40 minute trip on the Acela Express. It
3 carries between 60 and 65% of the combined air rail
4 market between Washington and New York. I think you can
5 point that as a success. It also covers Amtrak's
6 operating costs.

7 REPRESENTATIVE LONGIETTI: Question for
8 Toby. I know the Pittsburgh project is something that
9 is still in some early stages, but you had mentioned
10 that it's anticipated that fare revenue and the
11 advertising revenue would be able to handle the
12 operational maintenance costs. Right now, as we sit
13 here today, does anybody have a projection on what the
14 fare would be? For example, from downtown to the
15 airport, and vice versa.

16 MR. FAUVER: If I remember the facts from
17 the project correctly, I think the fare was estimated to
18 be \$5 per leg. So I think it was \$5 between each
19 station.

20 REPRESENTATIVE LONGIETTI: Which, obviously,
21 is significantly less than what you would currently
22 spend today to take a courtesy van or bus, or something
23 of that nature.

24 MR. FAUVER: Oh, absolutely.

25 REPRESENTATIVE LONGIETTI: Thank you, Mr.

1 Chairman.

2 CHAIRMAN MARKOSEK: Thank you.

3 Representative Chelsa Wagner.

4 REPRESENTATIVE WAGNER: Thank you, Mr.

5 Chairman. I thank all three of you for your testimony.

6 I apologize that I arrived a little bit late. I hope I

7 didn't miss this and I'm being redundant.

8 The question is for both of you, Mr. Yachmetz and
9 also Mr. Fauver. With respect to the different
10 applications, or different potential projects within the
11 Commonwealth of Pennsylvania, and if I could first pose
12 the question to Mr. Yachmetz. From your perspective,
13 how those different projects stack up against one
14 another, particularly, in terms of their readiness.
15 Where they are, whether it's just a conceptual phase, or
16 if they are further along, having some engineering, and
17 so forth.

18 MR. YACHMETZ: I apologize. I have to defer
19 to Mr. Fauver, because the president has directed that
20 we not talk about any pending applications.

21 MR. FAUVER: We submitted three applications
22 for three corridors. The corridor between Scranton and
23 New York, the existing Keystone Corridor between
24 Harrisburg and Philadelphia, additional upgrades
25 remained there, and then the Maglev Project with

1 Pittsburgh.

2 All three projects have a completed environmental
3 document that has been submitted to the Federal Railroad
4 Administration. The Maglev Project has an FEIS in. The
5 Keystone Corridor between Harrisburg and Philadelphia,
6 we rapidly completed one and submitted it to the Federal
7 Railroad Administration. The Scranton to New York
8 project, we actually have received a Record of Decision
9 from the Federal Transit Administration. That project
10 was being pursued by New Jersey Transit through the
11 Federal Transit Administration, and the environmental
12 document has been re-submitted to the Federal Railroad
13 Administration for their consideration.

14 In terms of design, all three projects, I think, have
15 conceptual design completed. The Keystone Corridor
16 between Harrisburg and Philadelphia has more than
17 conceptual design. The Scranton to New York line, large
18 area is completed in support of the environmental
19 document.

20 REPRESENTATIVE WAGNER: So practically
21 speaking, it seems to me there is going to be some
22 deference to whether it's the governor, or the senators,
23 in terms of which projects, or which among those
24 projects are more of a priority. I don't know how much
25 you can answer that. I have asked this question to

1 Secretary Biehler, but it has been about six months
2 since I've had any discussion with him. At that time,
3 it was my understanding that the Pittsburgh Maglev
4 Project was significantly ahead of any other
5 applications in this state, and also with respect to
6 other potential high-speed rail projects throughout the
7 country, was pretty far ahead.

8 MR. FAUVER: I don't want to speak for
9 Secretary Biehler here. From my perspective, I think
10 all three projects were submitted independent of each
11 other based on their merits, and based upon the status
12 of each project. Each project runs different features
13 of the stimulus funding. So the Scranton to New York
14 project, we could achieve high-speed rail initially, but
15 it certainly would restore the passenger rail line to
16 New York City from Pennsylvania, and would set us up to
17 build high-speed rail in the future.

18 The Keystone Corridor has long been rebuilding.
19 Currently, it meets the federal definition of high-speed
20 rail as of 2006 improvements, and we're operating at 110
21 miles per hour currently. The Keystone Corridor
22 operates through New York City. Many of the projects
23 there would further decrease travel time, and increase
24 the speed of that line. The Maglev Project certainly
25 demonstrates true high-speed rail, or true high-speed

1 fixed guideway service, exceeding 240-miles-per-hour.
2 Constructed, would probably be the fastest rail service
3 in the country.

4 REPRESENTATIVE WAGNER: Just a final
5 question for Mr. Yachmetz. I understand that you can't
6 comment specifically on certain applications, but if you
7 could provide a little bit of insight into how you might
8 be soliciting, or you will be evaluating the state's
9 input. Because I can't imagine that three different
10 projects in the state are just going to be viewed in
11 isolation of any kind of input from higher ranking
12 elected officials from the state, or that one state is
13 going to get three projects, where other states that
14 have decent high-speed rail projects are going to be
15 left behind.

16 MR. YACHMETZ: The projects are all going to
17 be evaluated based upon their merits, based upon the
18 criteria we published in our grant guidance. We, right
19 now, have everything we need to do the evaluations. And
20 are looking at each of the projects individually, both
21 within states and across the 38 states. We published
22 our grant guidance on June 16th, and laid out the
23 criteria we can use, and how we can evaluate them. To
24 the extent that states indicated when they did multiple
25 applications, "don't give us any money if you don't give

1 us this one," and quite frankly, I don't believe we got
2 that statement from any state. But recognize that there
3 are a number of ways that you can slice and dice 8
4 billion against 38 states and 270 applications.

5 Some applications that may rate very high might
6 consume all 8 billion dollars. We actually have one
7 application for 11 billion dollars, which would be very
8 difficult to fund with 8 billion dollars. We'll have to
9 see how that plays out, but if the states made some
10 statement in their applications about their relative
11 priorities, we can certainly consider that.

12 REPRESENTATIVE WAGNER: One final question.
13 Since you said Pennsylvania really hadn't submitted any
14 kind of preference among the three different projects, I
15 understood that six to eight months ago, that the
16 governor did meet with the congressional delegation.
17 By memory, I believe it was Congressman Doyle who
18 indicated to me that Governor Rendell was pushing for
19 Pennsylvania to submit one application, or at least for
20 there to be a clear preference towards one project
21 within the Commonwealth. So did that not happen, or Mr.
22 Fauver, your understanding of where that is,
23 politically?

24 MR. FAUVER: Let me briefly try to answer
25 that question, and briefly describe the process we went

1 through to determine what applications could be
2 submitted. When the notice came out from the Federal
3 Railroad Administration, criteria came out from the
4 Federal Railroad Administration, and they announced they
5 were going to be accepting pre-applications for projects
6 on July 10th. We very quickly did a scan of the state
7 and looked at every potential rail project that has been
8 talked about, that has been studied, that has been
9 evaluated, and we identified all of those projects and
10 we looked at all of those projects against the criteria.
11 Really, initially, looking at readiness, looking at job
12 creation, and then we looked at operating funding, we
13 looked at serious criteria.

14 We narrowed it down, with the help of the governor's
15 office, to the three applications that were submitted,
16 and all three of those applications demonstrate
17 different -- have different strengths related to the
18 criteria that is being considered. So the governor's
19 office supported submitting all three at that time. I
20 know there has been different advocates, different
21 advocates from congress that have been supporting one
22 project over another. As far as PennDOT is concerned,
23 we submitted all three projects. All three are in
24 competition, and we'll be happy to have one, or all
25 three, funded.

1 MR. YACHMETZ: Without talking about any
2 specific project in any specific state, some states did
3 an all-or-nothing application. Give us a big part of
4 all your money, or don't bother to give us any. Some
5 said, well, you only have 100 million for us, here is
6 our 100 million dollar project. If you have 1 billion
7 for us, here is our 1 billion project, and if you've got
8 2 billion, well, geez, we've got a 2 billion dollar
9 project, too. Perhaps, in belief, that they have a
10 better chance of getting something from that scenario.

11 MR. FAUVER: Maybe I'll mention one other
12 thing. We're in the process of trying to get a
13 statewide rail plan completed in intercity and freight.
14 That's under the guidance that has been issued, the
15 federal law that has been passed, guidance has been
16 issued by the Federal Railroad Administration to
17 establish priorities for a net worth for high-speed and
18 intercity rail for Pennsylvania. All three of the
19 applications that have been submitted are all components
20 of that state-wide plan. This administration, the
21 governor, has been very supportive of achieving true
22 high-speed rail, making it competitive, but also has
23 been talking actively, not just about Pennsylvania,
24 about the county needs to build a network because it's
25 the only way that rail is going to be effective. So I

1 think the three applications are part of that network of
2 Pennsylvania, and certainly isn't the end, but is the
3 beginning of the stimulus bill.

4 CHAIRMAN MARKOSEK: Thank you very much, Mr.
5 Fauver, Mr. Yachmetz and also Ms. Erickson for your very
6 valuable testimony. Thank you for traveling here today,
7 and the Committee appreciates it very much.

8 Next, we have Mr. Fred Gurney and Mr. Walter Buss.
9 Fred is President of Maglev, Inc., and Mr. Buss is the
10 President of Transrapid International.

11 Thank you both for traveling here today. Mr. Gurney,
12 we'll recognize you first. I notice that we have your
13 testimony here. If you could, perhaps, summarize some
14 of it for us, as opposed to a verbatim reading. It
15 would help the Committee time-wise. Certainly, we do
16 want to hear what you have to say. We're very
17 interested. And also, Mr. Buss, the same thing. Mr.
18 Gurney, you may proceed when you're ready.

19 MR. GURNEY: Chairman Markosek, Chairman
20 Geist, Members of the Committee, I am very pleased to be
21 here to talk to you about high-speed Maglev, and
22 particularly, about Maglev activities here in
23 Southwestern Pennsylvania. I know many of you already
24 know about what we're trying to do, and know a lot about
25 high-speed Maglev, but for the sake of completing this,

1 let me at least give, kind of, a summary of it and bring
2 you right back in to where we are, and kind of reinstate
3 itself. I will not go over that in detail, Mr.
4 Chairman.

5 Anyway, high-speed Maglev is a true intercity
6 high-speed passenger service. It has got speeds capable
7 of, in excess of, 300-miles-per-hour. It's ideal for
8 traveling distances of up to 600 miles. So it's just
9 beautiful to be able to connect the large cities of the
10 Midwest with the large cities of the Atlantic Coast.
11 It's just a wonderful type of a transportation system,
12 which would be very competitive in that distance range
13 of up to 600 miles. I would point out that in that
14 range of 600 miles -- and I notice that we're having an
15 individual here from the Chamber talking, and the
16 Chamber provides good numbers for us to talk about.
17 Within 500 miles, you have half the population of the
18 United States from this region right here, so it's
19 really an ideal kind of transportation system for us.

20 I did have, Mr. Chairman, a handout with some figures
21 in it so I could refer to some of this, and maybe that
22 would help to summarize a lot of what is going on. A
23 lot of that detail is already in these handouts. It's
24 in the back of the packet that I gave as my testimony.

25 The system which I have described, as I said, is

1 ideal for large intercity passenger activities. But we,
2 with Maglev activities here in Southwestern
3 Pennsylvania, our goal is to start right here in
4 Southwestern Pennsylvania. Specifically, right in the
5 Pittsburgh area with a line that would link the
6 Pittsburgh International Airport with downtown and
7 continue on with the Monroeville/Penn Hills area, and
8 then on out to the City of Greensburg. Those distances
9 are about 19 miles apart. A total distance of about 54
10 miles with stations at each of those locations.
11 Actually, there would be two stations at the airport.
12 One just outside the airport, and one at the air
13 terminal portion of the airport. The features that are
14 on this handout, I think really show those areas. It
15 also shows what a conceptual design of the station,
16 which we call Magports, at the downtown area. Just how
17 nicely it leads into the distance area of the compact
18 city of Pittsburgh.

19 I would like to just continue on -- I know we're
20 going to have other information from other individuals
21 -- but just let me talk a little bit about where we are
22 with the project. We have been on the project for a
23 number of years. Chairman Geist mentioned a number of
24 years that he has been associated with the project.
25 Recently, and I would say recently beginning with the

1 EEA21, really started a tremendous amount of activity
2 towards putting high-speed Maglev into a forum that we
3 could bring something together. In that funding
4 activity there, a considerable portion of that was
5 focused on getting an Environmental Impact Statement
6 done. We, ourselves, don't do that statement, that
7 Environmental Impact Statement. That was done by a
8 separate consortium known as MSM of the group of
9 environmental specialists who did that, and that is
10 independent of where we were, and they report to the
11 Port Authority on that activity.

12 Just to talk about that. That process began, really,
13 in 2001. It's now 2009, and it has been an eight-year
14 event. The Environmental Impact Statement, I think, is
15 now accepted and ready to be signed. It's sitting on
16 the administrator's desk. A lawmaker said it's just a
17 formality now, and all things have been cleared up.
18 However, again, it's not one of the activities that
19 we've done, specifically, but however, it is very, very
20 important that the Environmental Impact Statement be
21 completed prior to being able to do anything in
22 construction. So with that Environmental Impact
23 Statement being there, that puts this project as no
24 other project, for sure, in the country.

25 So without going into any further detail on that, I

1 want to just go ahead and talk a little bit about some
2 of the related aspects, which we have also been pursuing
3 to bring this project together. The organization which
4 I represent, Maglev, Inc., has had a dual objective from
5 the beginning. One was to bring high-speed Maglev to
6 Southwestern Pennsylvania. Bring it to the United
7 States starting in Southwestern Pennsylvania. Another
8 of those was to capture economic benefits from that
9 technology. In doing that, we looked at what is
10 involved in the cost associated with the technology
11 itself.

12 If you break those down to give you, kind of, a
13 simple grade on analysis, you would find that about 65
14 to 70% of the cost is associated with the guideway
15 infrastructure. That's the guiderails themselves which
16 the vehicle will run. About 5 to 7% of the cost is
17 associated with that glitzy portion, the train itself.
18 It gets all of the attention, but it's really only about
19 5 to 7% of the total cost. The real cost is in that
20 guideway infrastructure. The other 25 to 30% of the
21 cost is in the electronics and the electrical systems it
22 takes to make the system run.

23 Now, high-speed Maglev -- and I have Mr. Buss here
24 with me who will give you more information about the
25 technology, so I won't go into that any further. I do

1 want to tell you that on the guideway infrastructure,
2 we have devoted a space, a certain amount of efforts.
3 Let me just tell you, in a nutshell, why. If we were to
4 build a high-speed Maglev between the airport and
5 Greensburg, and use only the longest beams that we
6 anticipate using, only the longest ones, those would be
7 62 meters in length. That's about 204 feet. They weigh
8 about 120 tons. They're big structures. Only the
9 longest one -- and there will be a lot shorter ones, too
10 -- but only the longest, we would build more than 3,000
11 of those beams. Each one of those beams has a slight
12 curvature either left or right, or up or down, or
13 compound, and it also would have some sort of twist,
14 which we would call canter or superelevation. What it
15 amounts to in building those, of those 3,000 beams, if
16 you are building in lots of 100, it's highly improbable
17 that any two of those guiderail structures has the exact
18 same geometry.

19 So if you are building them in a sequential way, what
20 that really means is that you would be building,
21 essentially, 3,000 one-of-a-kind structures. That's a
22 real challenge if you're doing it by the conventional
23 process of construction and fabrication in shops. We
24 took on that challenge very early on in the game, and we
25 said that the only way we're going to be able to do this

1 -- and to build it to the accuracy and the close
2 tolerances that are necessary -- is to develop the
3 technology for computerized fabrication. We have done
4 that, and we have devoted a lot of effort to that.
5 There is some information on the second and third of the
6 handouts that we show you there. Particularly, on the
7 second one, had we show some equipment there in orange.
8 That's the computerized application table that we put
9 together.

10 Let me go back and just, kind of, give you a feel for
11 where we are here. High-speed Maglev is designed for
12 passenger comfort. It's designed to allow you to sit in
13 your chairs, as you are right now, as comfortably as you
14 are, and not really experience any jerk of your head to
15 the left or to the right, or forward or back. We know
16 how to do that from the space program. Taking that
17 information and be able to set up in any one of those
18 specific location -- we know exactly what the geometry
19 of a guideway has to be at that particular place. It's
20 a matter of stretching that over the full 54 miles.
21 We've done that. We've done the mathematics. It's not
22 complicated mathematics. It does require a little bit
23 of effort. When you computerize that, and then use that
24 same sort of information -- I'm giving it to you in a
25 simplistic sort of way -- use that same sort of

1 information to try the equipment to go into allowing you
2 to build these guiderails, and that's the process which
3 would allow you to be able to, basically, push a button,
4 and certain equipment would go into a certain
5 configuration, and then with robotic welders, you can
6 weld that down and be able to do that very, very
7 precisely and very, very quickly.

8 In my estimation, we're lucky enough to reduce the
9 cost of guiderails by at least 20%. Not only that, in
10 fact, that same type of technology is applicable to
11 bridge structures, applicable to elevated highway
12 structures, on ramps and off ramps from highways, and
13 offshore structures. It's a very interesting and very
14 cost-saving sort of technology. We have devoted a lot
15 of effort to that. The two that I have shown you
16 actually address that. There is a third picture in
17 there, a third sketching, which shows this different
18 sort of funding. We actually built a beam of the kind
19 that PennDOT uses to show you that. They're all small,
20 and they're all not curved, but we will be able to have
21 that and do that with curves, so we want to continue
22 that, because we think that is an exciting area going
23 forward.

24 One other aspect of doing all of these things is the
25 workforce. The workforce, to be able to operate

1 computerized -- computer integrated fabrication systems,
2 robotic welding systems, just does not exist in this
3 country. So we took on that challenge along with Penn
4 State University at the regional campus in McKeesport,
5 the Greater Allegheny Campus, and along with the
6 Community College of Allegheny County and developed a
7 two-year associate's degree program. I will show you
8 one more picture in here in the back to show what that's
9 all about. We took on that to develop a two-year
10 curriculum, and to get a degree in this kind of
11 technology. To allow advanced technology. We were
12 talking about capturing businesses that have fallen
13 short, this is one of the best ways of being able to do
14 that.

15 So Mr. Chairman, I want to continue on just a little
16 bit more and just tell you about one more area that we
17 were concerned about that, I think, Deputy Secretary
18 Fauver mentioned and that is self-sustainability. This
19 project has that potential for doing that. It operates
20 -- again, Mr. Buss will be talking to us a little bit
21 more about that -- it operates with no moving mechanical
22 parts and no contact with the guideway when it's in
23 operation. What that means is there is almost no wear.
24 Almost no wear. And because there is no mechanical
25 touching of the guideway, there is no friction, so

1 again, it operates with lower energy. So those kinds of
2 things, added together, and the control systems are all
3 electronic. Electronics today have a very, very high
4 reliability. So this system has almost no -- very low
5 O&M, operational and maintenance cost. Very, very low
6 cost. That is where the self-sustainability comes from.
7 We're pushing towards that, and that's the area I want
8 to really make a strong point on.

9 We will continue with some of the monies that were
10 mentioned by Deputy Secretary Fauver and Mr. Yachmetz to
11 develop the environmental -- to continue to complete the
12 environmental process, and take that onto a Record of
13 Decision, and they will also continue with the other
14 activities to bring preliminary engineering from the
15 level where it is right now, which was sufficient to get
16 the Environment Impact Statement in, but to carry it
17 onto another -- closer to a 30% level, and then move
18 those out to design-build contracts, and get people to
19 put this program together and get it built.

20 I'm excited about it. It has been a long haul. I am
21 really delighted to be here to tell you about it, and I
22 certainly respect the effort that all of you have done.
23 Chairman Geist, you have been a long time advocate, and
24 been a promoter of these kinds of technologies.
25 Chairman Markosek, in your position, I greatly

1 appreciate the support that you have given the program.

2 With that, I'll conclude and be able to respond to
3 questions.

4 CHAIRMAN MARKOSEK: Thank you.

5 We'll have Mr. Buss testify first, if that's okay,
6 and then we'll open it up to questions to both of you.

7 Mr. Buss.

8 MR. BUSS: Thank you very much. Chairman
9 Markosek, Chairman Geist, Members of the Committee, I am
10 very pleased and honored to speak to you this morning on
11 behalf of Transrapid. The technology that is proposed
12 for the Pittsburgh project is the Transrapid technology.
13 It has been developed in Germany over the last 30 years.
14 (Inaudible.)

15 Again, in the end of 1970, a thorough review of the
16 available technologies and developments in Germany was
17 undertaken. The result was a decision to look at the
18 Transrapid as the technology of chase. So this
19 technology has been further developed since. In 1980,
20 the government, together with the industries and
21 universities in Germany, decided to build a 19-mile test
22 track in Northern Germany. Some of you have been at the
23 test track. It has been in operation since 1980, and
24 developed the vehicles from TR-06. To date, TR-09 that
25 is in operation now, is really from development of the

1 vehicles that are in full revenue operation in China.
2 The TR-09, which took advantage of the lessons learned
3 from China, and really is, today, the state-of-the-art
4 of the Transrapid Maglev technology. It received its
5 safety certification in June of last year. It's a
6 rigorous European safety certification, this was met,
7 and we have an excellent opportunity next week to
8 showcase this technology to the administrator of the
9 FRA, Mr. Joe Sazbo, who is going to be in Europe looking
10 at -- be in contact with the European Governments and
11 the European companies for high-speed rail. He will
12 spend a day with us at the test track, and we look
13 forward to again having this extreme discussion.

14 Based on the experiences in China, the Germany
15 Government decided to fund a further development program
16 in the extent of 100,000 million dollars that was
17 completed last year with the safety certification of the
18 TR-09 vehicles. Again, it was a huge undertaking by all
19 parties involved. This was mainly to focus on further
20 technology developments that have taken place since
21 China. Also, to focus on finding ways and means to
22 reduce overall costs of the system, and that has
23 successfully been concluded.

24 We are now in a position that the Transrapid
25 technology, that is proposed for Pittsburgh, competes

1 very well with a similar high-speed steel rail
2 technology. The vehicles are of significant lighter
3 weight. The payload is higher. The guideway
4 infrastructure has been reviewed carefully and developed
5 to a lesser cost required technology.

6 Coming back to China for a minute, the Chinese
7 Government moved very fast. They came to the test
8 facility, and I think only three months later, the
9 president of China signed a contract with our German
10 Government and the industry leaders. And only within
11 two years, the first VIP test run in Shanghai occurred.
12 The system has been in operation and fully accepted
13 since April of 2004, I believe. About 22 million people
14 have used it since. It has traveled, as I point out
15 here, about 4 million miles. To put this into
16 perspective, that is about 150 times around the globe,
17 around the equator. This was done at a -- has been done
18 at a schedule of about 99.95%. So that is really an
19 unheard of experience in any transportation system.
20 Chinese are very satisfied with the overall operation.
21 We have been able, from the German technology side, been
22 able to gain significant information with regards to
23 longevity of system components, guideways, et cetera.
24 Let me talk about the system characteristics. I
25 mean, outstanding. Here are the lower energy

1 consumption. This, again, is very important when we
2 look at these statistics that we really compare efforts.
3 So if we compare a steel rail operation at
4 150-miles-per-hour with the same speed operating Maglev,
5 the Maglev will consume about 15 to 20% less energy.
6 The noise emission at given speeds at the same speeds
7 are also significantly lower. Safety is a very, very
8 high feature of this transportation system. The design
9 is such that it wraps around the guideway and it makes
10 it impossible for a system to derail. The system itself
11 has an inherent part in the automation configuration is
12 such that only certain miles of the guideway are
13 energized at a given time. Meaning, that there is no
14 possibility for either head-on or tail-end collisions.

15 This, pretty much, goes along with the requirements
16 in America to look at EEC, to integrate positive train
17 control. Positive train control is an inherent part of
18 the Transrapid Maglev design. Fred already mentioned
19 the operating and maintenance costs and long lifecycle.
20 This is just a mere outcome result of the fact that we
21 don't have any friction in the system. In upstate --
22 the technology is such that we visualize that an
23 electric motor comes open and extended, the stator
24 becomes embedded in the guideway system, and an onboard
25 levitation system guides the train. Through changes in

1 the frequency we are able to change the velocity of the
2 train, accelerate and decelerate.

3 The system is designed to allow for much larger
4 timing purposes. Again, no friction. The Transrapid
5 can go up to 10% grades, while a steel rail about 5%.
6 Also, another very important ethic is the ability to go
7 to a higher -- of up to 12%. A comparison of steel
8 rail, a steel rail has to stay within 6% because of the
9 danger to be slowed down, stopping, a curve, and then
10 fall over. This is not possible with the Transrapid
11 because it is guided within the guideway. The higher
12 speed of the overall system allows for a faster
13 circulation and for a given ridership, fewer vehicles.
14 Fewer vehicles means fewer length of train. Less long
15 trains coming into a station. That means for a downtown
16 operation, the overall operation of the station is much
17 lower, smaller.

18 These are all really advantages of the Transrapid
19 system. Given the fact that it has been in operation in
20 Shanghai for such a long time, of five years now,
21 without any major flaws, interruptions, speaks for
22 itself.

23 Let me now talk about potential enhancements in the
24 future. Maglev, by itself, holds a potential for future
25 increase for economical attractiveness. Being a system

1 based on electronics, Transrapid will be able to utilize
2 all benefits from the continuous evolution and progress
3 of electronics. While the conventional rail system will
4 continue to be constrained by physical limitations of
5 friction between wheel and rail and power transmission.
6 Also, the progress of the new lighter materials and
7 manufacturing techniques will positively impact Maglev
8 down the road.

9 Let me go to my last point, which is really
10 technology transfer. Much as we have discussed in the
11 past, the German Government after the earlier on program
12 in Germany was concluded, together with the system
13 industry, have come to the conclusion to make, or wanted
14 to make this technology available to the United States,
15 find 45 companies here to integrate into a full
16 technology transfer to learn the system. Our idea is
17 not to build vehicles in Germany and export these into
18 the United States. This distinguishes Transrapid as a
19 business concept involved from all other steel rail
20 technologies.

21 The technology has been advanced, such that, an
22 industry couldn't be developed here from day one on with
23 a first project in Pittsburgh. I mean, it could not be
24 feasible to build those vehicles right away here, but, I
25 mean, we would still build a number of vehicles in

1 Germany and have American engineers and businessmen come
2 over, be trained, educated, and so on, and take over
3 this technology. The idea of the concept is to bring
4 this over to the United States. (Inaudible.) This is
5 the real intent, and I am very glad that we have had a
6 chance to -- in Germany, and we will definitely have
7 those kind of discussions with the FRA team next as
8 well.

9 CHAIRMAN MARKOSEK: Thank you.

10 Chairman Geist has a question.

11 CHAIRMAN GEIST: Fred, wonderful testimony
12 from both of you. I'd like to go back to something that
13 was said earlier concerning the ability of the projects
14 under the stimulus monies to get underway. The
15 clearances that you have under the design-build
16 contract, it seems to me that you could be up and going
17 as rapidly as we can be in a lot of projects that are
18 highway-oriented that need a lot of engineering before
19 they actually get into construction, and your project is
20 able to be fast-tracked, engineering, construction, all
21 at one time; is that correct?

22 MR. GURNEY: Yes. Let me comment on that,
23 if I could, please, Chairman Geist. The engineering
24 that had been developed at this point has been primarily
25 focused on the preliminary engineering that is needed

1 for the Environmental Impact Statement, and that varies
2 depending upon which aspect of the project we're talking
3 about. But it's not in the 30% level. It's more in the
4 5 to 15%. What we would propose to do -- and let me go
5 back, first of all -- after you complete your
6 Environmental Impact Statement and get your final
7 Environmental Impact Statement signed off, you still
8 have to go through another process in the DEPA law
9 activity, and that's getting the Record of Decision.
10 And that process, the fastest would be about six months,
11 and more likely, more reasonably, in the nine-month
12 level.

13 In that period of time and what we would do with the
14 funding from the safety loop, 28 million, is we would
15 begin with a real serious effort to bring those other
16 areas up. Bring those to a 30% engineering level, or
17 approximately that level so then we could immediately
18 begin with a design-build contract. So the response to
19 your question is, yes, we would be set up to begin, to
20 go into a construction mode very quickly, but we would
21 like to do some more preliminary.

22 CHAIRMAN GEIST: Let me ask that
23 differently. If FRA, and the feds, and the state were
24 to waive the requirement to allow you to start this as
25 the other process goes forward, how soon could you be in

1 construction?

2 MR. GURNEY: I think the answer to that
3 would be that as soon as the Record of Decision is
4 rendered and there is funding there. We would need to
5 bring the certain parts of the engineering up to about
6 30% level. It's a matter of, if there is plenty of the
7 funding, you can do that pretty quickly. If the funding
8 is really dragged out, of course, that takes a long
9 time. But to answer how quickly, we would believe that
10 if you follow the Chinese model, which they went -- they
11 didn't do it the same way. They actually built the
12 entire project in two years, and they had sufficient
13 funding and everything was out of the way. So if
14 everything would be out of the way here, we don't think
15 we're going to be as fast as that, but pretty close. We
16 think we could get the first section in two-and-a-half
17 years.

18 CHAIRMAN GEIST: I want to go back to the
19 word "stimulus" for a moment. How much steel would be
20 made here in the United States to build this in this
21 section?

22 MR. GURNEY: The amount of plate steel that
23 we calculate would be needed for the entire route, from
24 the airport all the way to Greensburg, would be about
25 330,000 tons.

1 CHAIRMAN GEIST: And that would be made
2 here?

3 MR. GURNEY: The previous activity for that,
4 70% of the cost had to be U.S. And as you just heard
5 from Mr. Buss, transfer all of the technologies. So all
6 of that would be U.S. manufactured material.

7 CHAIRMAN GEIST: Products-wise, you used to
8 say that 90% of everything can be made here in
9 Pennsylvania. Is that still correct?

10 MR. GURNEY: I truly believe that, yes.

11 CHAIRMAN GEIST: So that stimulus would
12 create an awful lot of jobs in the manufacturing sector
13 of Pennsylvania that has been hit pretty hard, correct?

14 MR. GURNEY: It would do a tremendous amount
15 to that. Not only that, Chairman Geist, it would also
16 allow you to have that spinoff capability to apply that
17 same kind of technology to other areas.

18 CHAIRMAN GEIST: Let me keep going a little
19 bit.

20 How many pounds of rebar would be used?

21 MR. GURNEY: I think I did have that number,
22 if you'll allow me to look through this very quickly.

23 CHAIRMAN GEIST: Don't spend time --

24 MR. GURNEY: It's in the testimony here.

25 CHAIRMAN GEIST: What I am trying to say is,

1 that would be manufactured here also?

2 MR. GURNEY: Yes, indeed.

3 CHAIRMAN GEIST: It would likely be made by
4 the United Steelworkers; is that correct?

5 MR. GURNEY: It would be made by -- we would
6 likely, to support all of the local areas that we can,
7 so the steelworkers, I think, have the bulk of all of
8 those kinds of jobs, yes.

9 CHAIRMAN GEIST: Let's go into the
10 electronics. The linear position control systems, all
11 of that would create jobs in industries that have been
12 hard hit in Western Pennsylvania and other parts of
13 Pennsylvania, correct?

14 MR. GURNEY: That is correct.

15 CHAIRMAN GEIST: So stimulus-wise, the
16 effect of it would be to create a tremendous surge of
17 jobs upfront as you move into construction, which would
18 employ many, many people in Western Pennsylvania in the
19 trades; is that correct?

20 MR. GURNEY: That is correct

21 CHAIRMAN GEIST: More than likely, we would
22 use the trades; is that right?

23 MR. GURNEY: I would think so, yes. Yes,
24 that would be most likely the case.

25 CHAIRMAN GEIST: So the statement, then,

1 that was made before about design-ready really doesn't
2 hold water if you're saying "go," and you're creating
3 thousands and thousands of jobs, and high paying jobs,
4 upfront to meet the needs until you get into
5 construction.

6 MR. GURNEY: I think so, and I think that
7 what the criteria, as I am remembering, was to go for
8 the stimulus activities. For the AARA, is for final
9 design and construction, and I think that's where we
10 are.

11 CHAIRMAN GEIST: I would really hope that
12 the federal government and the state government would
13 work with you to expedite the paperwork, a lot of which
14 is designed to delay projects, I believe, rather than
15 build them. We have instances right now where we have
16 worked on HOP's at PennDOT for five years. Never in my
17 life have I seen that happen. So I would hope that
18 Chairman Markosek uses all of his power. We get about
19 the business of finally building this.

20 One mistake in your testimony. It really is not
21 Greensburg, it's Altoona.

22 MR. GURNEY: I stand corrected.

23 We would be delighted to work with both of you.
24 Certainly, Chairman Markosek, we appreciate your
25 leadership in doing all of these transportation issues

1 that you have on your platter. But certainly, we want
2 to work with you on high-speed Maglev. Chairman Geist,
3 as you always have been associated with this activity,
4 and continue that. We are really thankful for your
5 assistance and helping pull together the right kind of
6 meeting, the right kind of activity to make this all
7 happen.

8 CHAIRMAN MARKOSEK: Thank you.

9 Representative Chelsa Wagner.

10 REPRESENTATIVE WAGNER: Thank you, Chairman.
11 Also, thank you, Mr. Buss and Mr. Gurney.

12 I'd like to ask two questions specific to what I
13 believe are some misconceptions that I hear from the
14 public, and also from some of our colleagues in
15 Harrisburg about the project. I was hoping that either
16 or both of you could just address those.

17 The first is on the operating cost. I was happy to
18 hear both of you address that, and also the previous
19 persons who were testifying. What we hear from
20 colleagues sometimes is, okay, great, we can look for
21 the funding to build this, but then our region would not
22 have the ability to sustain it. Partially, folks talk
23 about concern in our declining population. So I'm
24 wondering if you can address that. I was happy to hear
25 that the amount quantified to be \$5 per leg, because I

1 think that helps me in talking to them to give them a
2 figure. But if there is anything that you might be able
3 to add to that concern.

4 MR. GURNEY: Certainly. Thank you. The
5 overall activity for the ridership was done by a peer
6 panel, a peer-review group who put together the
7 ridership numbers. We also had some investment bankers
8 put together the whole financial plan, which has been
9 submitted and it has been an integral part of the draft
10 of the Environmental Impact Statement. Certainly, it
11 has been in other transcripts that we have made to the
12 FRA. The overall plan for working with that \$5 rate,
13 that was all based on the studies at the time, which
14 were 2003 studies, and that system works, and that
15 system works well. The business of being able to take
16 and, how do we go about determining the O&M costs,
17 they're based on the historical information that we have
18 available that we got from Germany, from the Germans.

19 What we understand from the Chinese now -- we're
20 cautious in the information that we get from the Chinese
21 because it's the way that the information comes out.
22 But certainly, everything that we've seen, it
23 corroborates the information. So the O&M costs, the O&M
24 costs are very low for this kind of transportation
25 system, Representative Wagner, because of the fact that

1 it is based on high reliability electronics. Not on
2 improving parts, and not on any contact with the
3 guiderail system. This kind of transportation system,
4 not only can give you that 300+ miles per hour, but it
5 can do it almost 24/7. There is very little downtime.
6 So in those dark shifts where you're not really carrying
7 passengers, it's available to carry live freight.

8 So instead of going out there and doing some
9 maintenance -- what I understand from the Japanese rail
10 system -- they have a tremendous crew of people who help
11 on the dark shifts. Just going out and maintaining the
12 line, and again, you don't have to do that with Maglev.
13 So O&M costs go way down. Because instead of doing
14 maintenance on those back shifts if you can carry live
15 freight on those back shifts, it continues to help with
16 the revenues.

17 One more aspect, if you'll allow me, there is one
18 more portion of this, and that is that we had a patent
19 -- I think that is also the handout material. There is
20 a patent on being able to convey communication cables or
21 even power cables through the guideway system itself, or
22 associated with the guideway system. So there is
23 another -- by releasing that out, or renting that out --
24 there is another revenue stream, that, again, further
25 reduces the costs and reduces the O&M burden, the

1 overall burden there.

2 REPRESENTATIVE WAGNER: The second question
3 I have along the same lines to address some concerns
4 that I hear from colleagues and others is with respect
5 to the EIS. I believe there are some folks who wrongly
6 believe that there is going to be more of an impact than
7 your studies show. So could you address the number of
8 structures that would be impacted per mile in thinking
9 of the actual route from the Pittsburgh Airport to
10 downtown, talk about what would need to happen, and how
11 many structures, or where the structures might be
12 impacted.

13 MR. GURNEY: Representative Wagner, I would
14 be glad to at least attempt to address that point.

15 First of all, I want to make sure that you understand
16 that we, ourselves, do not do the Environmental Impact
17 Statement. Because of what is required for that, it was
18 done by another group of people. That group is a
19 collaboration of three environmental groups under the
20 acronym, or the title of MSM. I believe I looked behind
21 me in my chair, and I thought I saw a gentleman here who
22 knows those numbers probably better than I, and if you
23 would allow me to defer that to that person, perhaps, I
24 could maybe get a more accurate answer.

25 Could I do that?

1 CHAIRMAN MARKOSEK: Perhaps we can get that
2 information later.

3 MR. GURNEY: They're remarkably small. I
4 can tell you, the numbers are very small, the number of
5 impacts.

6 CHAIRMAN MARKOSEK: If you could get that
7 information and submit it to the Committee we'll
8 distribute it.

9 MR. GURNEY: We will do that.

10 CHAIRMAN MARKOSEK: Thank you, gentleman.
11 Thank you very much. We appreciate that. Very good
12 testimony.

13 I'd like to switch the batting order here slightly.
14 Our next group, I'd like to call Mr. Bill George,
15 President of the Pennsylvania AFL-CIO; Sally Haas,
16 President of the Pittsburgh Airport Chamber of Commerce;
17 Mr. Don Dunlevy, Pennsylvania State Legislative Director
18 and Chairman United Transportation Union.

19 I apologize to Mr. Paul and Mr. Babson. We'll have
20 you on next.

21 Thank you. We'll start with you, Mr. George.
22 Welcome. Thank you for coming.

23 MR. GEORGE: I thought Sally would go first,
24 but that is fine. Obviously, you recognize the AFL-CIO
25 before the Chamber of Commerce. It's about time.

1 One of the comments earlier, I just told
2 Representative Geist, it's not Greensburg, it's not
3 Altoona, it's Aliquippa.

4 First of all, let me thank all of you for taking this
5 really controversial task, and most of all, a
6 tremendous, tremendous economic subject that is so, so
7 important. I look around the room here and the
8 testimony that has taken place this morning, and I had
9 to smile a little bit. Because I could remember first
10 time I went to Harrisburg in 1982 and downstairs in the
11 cellar of the Main Capitol, there was a guy named Eric,
12 and they were talking and having trains run 90 miles an
13 hour or something across the state, and how exciting it
14 was about that, and the fight was how we were going to
15 make that route and capture 2/3 of the entire General
16 Assembly. The original route went from way up in the
17 State of New York, back down to the southern part of
18 Maryland, and back up to across the state so we could
19 get a project growing.

20 So Eric, it's good to see you, and Richard here. I
21 can't say enough about you, Chairman Markosek. You have
22 just been fantastic about this subject. You have
23 reached out not only to the president administration,
24 but the federal administration. I have to thank, most
25 of all, earlier testimony this morning, because I feel

1 good about all of this conversation. I've got to tell
2 you, a chill went up my back. I guess Don called me
3 about a month ago and said, Guess what? They're
4 recreating. They're putting new spirit and money, and
5 putting the money where their mouth is at the federal
6 level. Obama Administration is saying, we're going to
7 do something here, and we're going to start moving it.
8 I can't think of a better time.

9 I have written testimony here, but let me not --
10 based on the testimony that was already given this
11 morning and the testimony that you'll hear the rest of
12 the morning that I have read already -- but we all
13 understand the economic rewards that come out of this
14 particular project. People sometimes forget -- when you
15 get as old as me, I guess I'm doing a little bit of
16 labor history, but you can remember these crazy things
17 that we did in this country to create jobs. It's about
18 jobs, jobs, jobs, jobs, our economy. The fact of the
19 matter, I go back and I think, geez, they created the
20 Hoover Dam, and the railroad across this country and
21 jobs that were created to boost our economy.

22 I mean, here we are in Western Pennsylvania -- and as
23 far as I'm concerned, I think Paul mentioned it earlier,
24 that the fact of the matter is that we are advanced so
25 far above everybody else. To have an opportunity, not

1 just for the State of Pennsylvania, but to create an
2 industry for this whole hemisphere. Think about this.
3 Nobody from all the way up north of Canada, to all the
4 way down to the tip of South America. If we could grab
5 this thing and run with it, we could become a
6 centralized industry, not for this country, but for the
7 entire hemisphere. Everybody that is going to do
8 anything in mag-levitation, whether it's the Navy
9 department projects that move forward and the Department
10 of Defense, whether it's the transportation side, or
11 even new ideas that we're hearing about, it's done here
12 in the Pittsburgh area.

13 So the challenge here is to recreate this spirit of
14 enthusiasm, which you all have been involved in over the
15 years when you created Maglev, Inc. when you've got
16 labor, you've got business, you have financial
17 institutions, and the excitement that we started 20-some
18 years ago to really recreate that intensity again. To
19 supplement the project that we're dealing with. All of
20 us carry this fight to public relations, whether it be
21 Wall Street, special TV opportunities, or whether it be
22 in Washington, D.C., moving forward with our
23 congressional delegation, moving forward with the
24 president administration here in Harrisburg, or the
25 feature administration, understanding that Pennsylvania,

1 the Keystone State, has an opportunity in the front of
2 this parade to create these type of jobs. Create an
3 industry that will stay here and be here for centuries.
4 That your grandchildren will have jobs and opportunities
5 to be able to do a mag-levitation.

6 The dream of this concept is way beyond just the rail
7 systems. I mean, you're talking about things that we
8 see on space shuttles, et cetera, that they're
9 experimenting with that is here. So in this university
10 system that we have here in Western Pennsylvania is just
11 a tremendous, tremendous opportunity to be world
12 recognized. I tell you, if we can move quick and move
13 fast here. The great entrepreneur, the citizen from
14 Germany that spoke this morning, a great engineer, a
15 great scientist, a great advocate is something that we
16 could pass anybody in the world in the matter of three
17 to five years. Just think about that. This industry
18 being located here.

19 I think Secretary Allen Biehler said it clearly is
20 that their studies show for every one billion dollars
21 spent on transportation projects, especially Maglev,
22 there are 35,000 jobs created. That would be direct
23 jobs to about 60,000. Probably talking about a job
24 project here indirectly and in a particular area in the
25 tri-state area of probably close to over 100,000 jobs

1 that could possibly be in this industry. I just dream
2 about that, because so many of us in this room have seen
3 the industry that we once grew up in. We have
4 everything going for us. You've heard the discussion,
5 you've heard the energy. I say to you guys that it is
6 so important that we do this, and do it quick.

7 I got up this morning and I was excited about coming
8 here -- but then the job report was done and a lot of
9 people thought that Wall Street is doing great, and Ford
10 is now showing a profit, Goldman Sachs wants to pay the
11 money back, so and so wants to do this, and then they
12 announced the job picture, and it's worse now than it
13 has been in the last 50 years. 10.2%. In reality, for
14 those who have fallen out of a tree and looking for
15 jobs, there are probably, in reality, about 17% across
16 this nation of unemployment. Only 4%, 5% short of the
17 Depression in the 1930's. In Pennsylvania, you're at
18 8.9%. Really, the unemployed is about 13%. People need
19 to understand, not that it's the subject here, but the
20 fact of the matter is, that in our state, 38% of the
21 people unemployed are the only people that get
22 unemployment checks. The other don't meet the
23 standards. So it's tough times here. What a great,
24 great opportunity here for every reason facing the
25 stimulus idea, the stimulus package to say that this is

1 the opportunity. This door doesn't have a little crack
2 in it. It has got the door wide open here in the last
3 six months.

4 In addition to the testimony from what you'll hear
5 from our colleagues, the national AFL-CIO, the state
6 AFL-CIO are industries in which we're part of that is
7 prepared through our new leadership in Washington,
8 D.C., Richard Trumka, and in the team that is put
9 together there to really go out and put their money
10 where their mouth is in reference to backing up this
11 project in a lot of ways with our pension funds. I see
12 people willing to do things with pension funds,
13 investments, that they don't want to give to Goldman
14 Sachs anymore because of what happened in the markets in
15 the last few years. They see a stabilization. They see
16 rebuilding America here. I think you've got an
17 opportunity here, not only in the engineering, and the
18 structure, and the job creation, but the entire
19 financial institutions.

20 What an opportunity that you can grab onto if you are
21 head of a major, major financial institution and say,
22 wow, this is something I would really, really like to
23 get. How many financial people are so mad because they
24 didn't jump on the Hoover Dam and the electric, the
25 whole early electronic systems that were put in by FDR

1 for profit, and was run by the federal government. This
2 is one that gets a tremendous return in every aspect.
3 This is what America is about.

4 I plead with you, after today's testimony, perhaps we
5 have a -- and I'll pay for the dinner -- we have a sit
6 down and bring some people in from all of these
7 categories and say, let's make this the number one
8 priority for Pennsylvania. Republicans, Democrats, East
9 and West, let's move into Washington, D.C., and let's
10 really push every second of our society in creating this
11 opportunity for us, and make sure that it's done in
12 Western Pennsylvania.

13 It's not about only the project. It's about the
14 industry. The transportation mileage is not the issue,
15 at least from our perspective. It's locating the
16 industry. All of the steel industry in Western
17 Pennsylvania here wasn't about just building steel here
18 in Western PA. It was about building steel in the whole
19 Northern Hemisphere. Again, here we are in 2009, like
20 in 1890 and 1898 and the entrepreneurship had the
21 mentality to understand they were going to create an
22 industry for a whole hemisphere. That is what we're
23 dealing with here. It's an opportunity.

24 Thank you very much this morning. I hope I saved a
25 little bit of time in not reading my full testimony. I

1 want to complement all of you for the great things. I
2 understand, Paul, in yelling at people this morning that
3 it was taking so long. But I think we got this door
4 wide open, and I wish that both sides bring together and
5 let's move forward and not nitpick about the little
6 things. Let's go and get it done. Thank you very much.

7 CHAIRMAN MARKOSEK: Thank you very much,
8 President George. I would just recommend to you to use
9 a little more enthusiasm. You did a great job. Thanks.
10 It was a great testimony.

11 Ms. Hass, why don't you go next.

12 MS. HASS: Thank you, Mr. Chairman, and
13 thank you, Members of the Committee for allowing me just
14 to come in and talk a little bit about the experience of
15 Maglev, the opportunity of Maglev, the reality of
16 Maglev.

17 I was very fortunate about ten years ago -- and I
18 can't believe it's ten years ago, but this is how
19 quickly time is going by with this opportunity -- to
20 have an opportunity to go over and test ride the project
21 that was over in Germany. Now, that I said was about
22 ten years ago. And at that point in time, it was pretty
23 amazing just to see a project that fits so beautifully
24 into the environment. Now, I know some of you have
25 ridden it. For those of you who have not, perhaps I can

1 give them a virtual experience for a moment.

2 To go onto the platform and to step into a
3 comfortable space where you could easily sit down, ample
4 legroom, ample headroom in a conversational fashion if
5 you so choose, next to bright windows in a spacious car,
6 and to wait for the experience. I can point to use the
7 word "experience," because it really is an experience.
8 I know the experiences up to that date that I've only
9 had in transportation have been with rail, with
10 aircraft, with cars, with taxis -- I can assure you I
11 never got out of them and said, wow, let's do that again
12 unless it was for, perhaps, a whole other reason of
13 sarcasm.

14 Now, when the car began, it's very much like being
15 out at Kennywood. Where the car elevates, and suddenly
16 you begin to move. Now, you only realize that you're
17 moving because you see things going by out the window.
18 You are watching. You are looking. You are seeing it's
19 going faster and faster and faster. In the background,
20 there is no noise other than the chatter among everybody
21 going, "Look how fast we must be going." You're sitting
22 there comfortably. And I want to add, unlike an
23 aircraft where suddenly you are pushed back in your
24 seats after you have strapped yourself in and prepare
25 for take-off, you're sitting there just very

1 comfortably, looking, observing, hearing other people
2 just easily in conversation. And then, because you
3 can't believe you are going this fast, because it's like
4 you are flying, but you are flying next to the ground.

5 You look up, there is little box up there in your car
6 that is telling you how fast you're going. Now, you've
7 got to convert this, so you are multiplying x6 I think
8 it is. We're going 100, 150, a few minutes later we're
9 now at 200. Now, we're at 270 miles per hour. I am not
10 suddenly being pushed back in my seat. I am still
11 sitting there very relaxed, watching, observing out the
12 window. What am I seeing? In a blurred fashion, but
13 still able to clearly see out the window, there are
14 animals out there, obviously, people that are walking
15 underneath the tracks. We are now coming around the
16 track and we're done. We're done. At 235 miles per
17 hour, I think, on the the track in Germany, we were
18 suddenly done with going 20 miles. That was it. Wow.
19 We get off. Wow.

20 We stood outside, because we wanted to hear, what is
21 this like outside? I'm out in the airport area, and you
22 want to run the Maglev from the airport to downtown,
23 which mean it's going to impact our communities. What
24 is this going to be like? So having had the opportunity
25 to stand outside on a platform to observe, okay,

1 apparently the train is coming, we're waiting for it,
2 waiting for it, it's close, suddenly it's there, you see
3 it, you hear it for a moment, it's gone. That was it.
4 It sounds similar to a train, but only for a moment and
5 then gone. It's more of a whooshing sound, and it's
6 gone. That's it. Being outside, again, you can see
7 that there are -- at least in Germany we had -- there
8 were animals grazing out there. Suddenly, they didn't
9 storm off or anything like that. It was just very
10 environmentally friendly. Ten years ago, Maglev was
11 probably one of the greenest projects, and today, it
12 remains one of the most green projects because of its
13 environmental friendliness.

14 Now, having had the opportunity to go over to China,
15 eight years later and enjoy the experience again. Now
16 it has evolved because it's in a practical application.
17 Comfortably, you go up a set of escalators into a
18 Magport. The Magport is very nicely appointed. It is a
19 very comfortable place to be waiting. You are sheltered
20 from the weather conditions. The train is now out on
21 the platform. With ease, you walk out onto the
22 platform. Now, I do want to mention here, there was an
23 area where they were selling souvenirs in China. Of
24 course, you'll see that. It's all about Maglev stuff.
25 And you're thinking eh, so you go ahead, we'll get back

1 to that later.

2 Let's walk out now onto the platform. Again, very
3 comfortably into a car. In Shanghai, people are already
4 using the Maglev. This is part of their day-to-day
5 life. They are getting on, they are carrying things.
6 This is nothing new for them. They are walking on with
7 ease. We, again, sit down. Same experience again.
8 Seamless, no pushback, car rises, you take off. Again,
9 it's a similar length and speed. We achieved 275 miles
10 per hour there. You're easily talking to people. You
11 can actually get up and walk, comfortably, if you wanted
12 right across the aisle, talk to the people there, go to
13 the back, easily. It's not the jerking sensation. No
14 noise, no distractions in the background.

15 We completed the ride. We got off. I was very
16 intrigued by how many people were over at the souvenir
17 stand because, simply, you want to get something. You
18 just had a "wow" experience. In both of these places,
19 in Germany, also in Shanghai, this is tourist
20 attraction. Quite honestly, I lead groups of folks from
21 the Pittsburgh region over into this area. This is one
22 of the places that they want to go. They want to
23 experience the Maglev, because they want to understand
24 the technology. They want to see what this is like. I
25 can assure you when we get off of the Maglev, people are

1 like, "How do we get this?" "Well, you want this?"
2 "Yeah, we really want this. It would be great." This
3 is the kind of experience you want to have. Where do
4 you want to have this experience? We want to have this
5 experience in our own backyard.

6 For one thing, we have the space. We have the plan
7 in place. Pittsburgh International Airport is the
8 second largest land area airport in the U.S. This has
9 already been included, Maglev facilities, in their
10 master plan. So it's all there. To have personally
11 seen how well these Magports are executed, how
12 seamlessly the ride occurs, and to think about how this
13 experience would connect us. We've heard about the
14 opportunity with jobs. Yes. That's a no-brainer. We
15 know that is going to create new opportunities, new
16 industries, spinoffs. This is all going to happen. The
17 green component must be aware, especially after G-20,
18 how that our image in Pittsburgh is about being green.
19 This will be a showcase for us. This will attract
20 people to the region.

21 If you're thinking about our declining population,
22 and we all acknowledge that, this is one way that we can
23 derail, so to speak, that problem. People are attracted
24 to innovation. They're attracted to new technology.
25 This type of convenience, this type of opportunity, will

1 probably help turn that situation around. Our tourism
2 opportunities are significant. I've seen this
3 first-hand by the response of people who go, by the
4 response of people who participate, and by the response
5 of people who want to go back and do it again. So I
6 would say that you're going to see these as terrific
7 opportunities for the Pittsburgh region.

8 I guess lastly, because I do want to pass it along
9 for other more technical comments. We have an
10 opportunity and it's now. This is now a proven
11 technology. What would be unique about Pittsburgh is
12 that we would truly be able to demonstrate it with a
13 challenging incline, with our weather conditions, year
14 round, in a way that other areas can't. When you're
15 demonstrating some of those things, again, you're
16 educating people, you're inspiring industries. You are
17 really growing understanding of the technology and the
18 opportunity within a region. I think these are all
19 things that you know, so I'll end my comments there.

20 I thank you for allowing me to share with you a
21 little bit of a virtual Maglev ride. For those of you
22 who would really like to experience the Maglev, I'd
23 invite you to come with me again next April, because
24 I'll be headed back to China and be taking a group there
25 to ride the Maglev, along with seeing other things. I

1 hope in our lifetime, we will be able to actually do
2 that here in Pittsburgh.

3 One final thing, I do think it's very exciting when I
4 hear Aliquippa or Altoona, or all of those different
5 places saying, "No. It's coming here." You know what?
6 I think you're all right. I think it should be in all
7 of those places. I think it should not only be from the
8 airport to Downtown Pittsburgh, and to your cities, but
9 connecting between cities here throughout the State of
10 Pennsylvania. Can we think bigger? Can we think bigger
11 about connecting us up and down the East Coast? This is
12 not competition for the airline industry, or for LRT, or
13 for any of these things. This is an industry of its own
14 that provides new opportunity, new ways that we will
15 begin thinking about where and how we do business, where
16 we work, and where we play. Thank you so much.

17 CHAIRMAN MARKOSEK: Thank you. Enthusiasm
18 is the whole of the day here. Chairman Geist has a
19 comment.

20 CHAIRMAN GEIST: I just wanted to tell you.
21 If you want to drive and ride in a train that lurches
22 and does all that kind of stuff, Don can teach you.

23 CHAIRMAN MARKOSEK: Speaking of Don, you
24 have a tough job, Don.

25 MR. DUNLEVY: Yes, I do.

1 CHAIRMAN MARKOSEK: You've had a couple of
2 pretty good -- a lot of enthusiasm there, so this better
3 not be boring.

4 MR. DUNLEVY: I'll give it my best shot.

5 CHAIRMAN MARKOSEK: Just kidding. Don
6 Dunlevy.

7 MR. DUNLEVY: First, real quick, a couple of
8 housekeeping things. Bill, you said you'd pay for
9 dinner. I want you to know that's on tape. We're going
10 to hold you to it. Listening to Sally and some of her
11 comments made me think back of one of my first trips
12 riding on the Maglev. The one description of that thing
13 that I think of often is the most remarkable thing about
14 it is that it's unremarkable. You don't realize
15 anything is happening. It's like sitting in this room.
16 It's a pretty fascinating piece of equipment.

17 My testimony has attached to it some documents. I'm
18 going to go through this pretty quickly, breeze through,
19 and reference some of those. But I do want to thank
20 both Mr. Chairman, the Committee members for holding
21 this hearing to look at and consider the high-speed
22 Maglev Project in Pennsylvania. I also want to thank
23 the Pennsylvania General Assembly as a body for the long
24 and hardened support that we've had over the years in
25 trying to bring this project to fruition. I also want

1 to recognize and acknowledge the support from our
2 Congressional Delegation over the years.

3 The first attachment in this packet is a letter from
4 the Congressional Delegation of Pennsylvania just last
5 year after the 45 million for projects east of the
6 Mississippi was released. It was a letter from the
7 entire Pennsylvania Delegation -- and I've been involved
8 in doing this various issues trying to get members to
9 sign letters -- this is the only one, in my memory, that
10 ever had both senators and the entire 19 member
11 Congressional Delegation support one issue. That says a
12 lot itself right there. But that was to encourage
13 Secretary Peters at the time to move forward and release
14 the money. It has now been since June of '08, and we
15 still don't have the money. There is some frustration
16 there, I will admit.

17 Chairman Geist asked Fred briefly about materials.
18 Let me run through, quickly. 54 miles is 330,000 tons
19 of domestic plate steel. 143,000 tons of rebar. 41,000
20 tons of electrical steel. 1,250 miles of 3/4-inch
21 diameter aluminum cable wound into the guideway, and
22 over 700,000 cubic yards of concrete. That is for the
23 54-mile project. That translates into jobs, jobs, and
24 more jobs. Something we need desperately. The project
25 here has national significance. We're the only project,

1 that I know of, that has fully committed to use steel.
2 The Chinese track is made out of concrete. The majority
3 of the German test track was made out of concrete. What
4 they did out of steel is about 1/3 of the track.

5 The reason they shied away from it is because you can
6 shape concrete much easier into very close dimensions.
7 We think, in the long haul, you have other issues when
8 you attach metal to it in our freeze/thaw cycles, we're
9 going to get spalling, and we're going to have some
10 long-term residual effects from doing that. Steel is
11 going to stay where you put it. It doesn't hurt that
12 we're all in Pittsburgh, which is a steel town to begin
13 with. We have longevity in this. It's lighter. The
14 steel is 1/3 the weight of concrete. If you look at the
15 deployment along Mount Washington, above Carson Street
16 coming into the City of Pittsburgh, the hillside that
17 nobody has ever been able to figure out what to do with
18 yet, except the college kids who get drunk and fall down
19 at night off that hill, nobody else has found a good use
20 for that hillside yet. We think we have one.

21 As through impacts, Representative Wagner asked about
22 impacts. At the end of my testimony, there is a website
23 that has the entire draft Environmental Impact Statement
24 on the Web. That includes aerial geographical maps. It
25 has all of the impacts. It spells out how many of each

1 type. If you look on there, it comes out from behind
2 McKees Rocks and through Sheridan around where the
3 Corliss Tunnel is, where the busway starts up the hill
4 in that area across from Brunot Island. From there into
5 the City of Pittsburgh, I know of one and there might be
6 a second, but that's the only two impacts coming along
7 that shelf from that distance all the way into the heart
8 of the City of Pittsburgh between the USX Tower and the
9 Mellon Arena over top of the Crosstown Boulevard and the
10 Interstate 576. That is an incredible feat for
11 something that is going to travel over
12 100-miles-per-hour and wind down in a very short
13 distance to make that stop.

14 The technology is remarkable. The layout, the
15 elevated layout allows this thing to enter cities and
16 urban locations where a traditional on-the-ground
17 highway, rail, whatever, can't do it without raising a
18 lot of buildings. If you look at the end of my
19 testimony, there is a website that has that. The next
20 piece shows a couple of maps. One is the vision. Bill
21 mentioned the vision when we put Maglev together, and
22 Maglev, Inc. together years ago, and one of those people
23 was Paul Wilhelm who was the President of U.S. Steel. I
24 remember meeting a lot of high-level players. He made
25 the comment, as we were just sitting here talking about

1 50-some miles, 54 miles from the airport to Greensburg.
2 The vision was, this is a multi-state, intercity, large,
3 large project. It has to start somewhere, and that was
4 us. We developed the technology. We developed the
5 fabrication. We developed the idea. But this thing is
6 intended to grow.

7 So if you look at that second attachment, it will
8 show a map with a circle. That is a 500-mile radius
9 emanating from the City of Pittsburgh where this project
10 starts. That encompasses 1/2 of the population of the
11 United States. It also encompasses half the population
12 in Canada. If you look at the map above as an example
13 of where that intercity system would go. This project
14 has an actual significance. Our topography, our
15 climate, we're able to demonstrate extremes. Heat,
16 cold, snow, ice, weather, rain, all of it. The hills
17 and the way we're going to travel, traverse the ground
18 from the airport into town, if we can build it here, it
19 will demonstrate we can build it anywhere in the
20 country. Again, the use of steel enables us to do that.
21 Doing that with concrete would be a much more difficult
22 task.

23 The equipment, I think Walter mentioned, Maglev is
24 able -- Transrapid's Maglev is able to climb a 10%
25 grade. At a couple points, we're actually going to hit

1 about 7%, which is more than twice what a traditional
2 steel wheel train can do. We're at a crossroads, I
3 guess. It's kind of, like, this century, go back to the
4 previous century when everybody was driving horse and
5 buggy. The decision had to be made, I can build an
6 improvement to these buggies. I can do something good,
7 but then something says, we got this horseless carriage
8 thing we've got to be looking at. Well, that's where we
9 are today. We have traditional steel wheel on rail that
10 has reached its peak of capability, of the technology.
11 This system can go 310-miles-per-hour. It can
12 accelerate and decelerate 4 times faster than any steel
13 wheel, which enables you to add station stops and have a
14 very small impact on the schedule.

15 Traditional steel wheel on rail, eight miles out,
16 you're starting to slow down. If you took the steel
17 wheel from the airport to town that was straight as an
18 arrow and wound it up, you could never reach the
19 250-miles-an-hour that we're going to make coming
20 through Robinson Town Center, let alone stop when you go
21 by the station. That is the difference in technology
22 and capability that Maglev has.

23 I mentioned about the steel guideway. A couple of
24 things about that. Fred has -- and it's in his
25 testimony, and it's in the attachment. It's significant

1 to the big picture for what we want to do, and that is
2 the fabrication. There is an attachment in there that
3 refers to a Federal Highway Administration scan tool.
4 In 2001, I believe it was, they toured Japan, Italy,
5 Germany, Great Britain, to investigate the various
6 methods that other countries use to today fabricate
7 bridges. Along with that is a letter in there from
8 Ralph Gilbert, who is an engineer with HDR. He and one
9 of his co-workers describe the technology that Maglev,
10 Inc. is using, which they found on that trip. I urge
11 you to read that. It's pretty enlightening. Mr.
12 Gilbert happens to be in the room today. I saw him
13 earlier, so I encourage you to quiz him on it. He is
14 the engineer and the expert.

15 But using this technology, and very quickly,
16 submerged arc welding is the standard in this country.
17 It's horizontal, on the ground, you weld, and there is a
18 flux that covers the weld to keep the air away so you
19 don't violate the integrity of the weld. Then when you
20 want to weld a flange on the other side, you have to
21 invert the entire piece. We don't use that. With this
22 standing torch, we should use more gas metal arc
23 welding. Which, in the wire, is a gas that as you weld,
24 releases the gas, the gas keeps the air away, and when
25 you go down the bottom, up the side, underneath, around

1 the back, and we don't have to invert the piece. It's
2 one of the ways when Fred told you to save 20% of
3 construction, that's one of the ways it gets done. So I
4 encourage you to look at that attachment on Fred's
5 testimony. That is applicable to highway bridges, that
6 is applicable to ship building, and that is applicable
7 to our industry in Pennsylvania and the use of steel.
8 We need to look at that.

9 There is another piece in here about cost. Everybody
10 wants to know about cost. It's expensive to build
11 Maglev. It's expensive to maintain it. Fred also has
12 in his testimony, in much greater detail --
13 Representative Wagner asked about O&M cost, I think.
14 There is much more detail, and there is also a chart
15 that came out of the draft Environmental Impact
16 Statement that will describe how you're not going to
17 have to use annual O&M budgetary money, which we don't
18 have. And how this thing, in about 30 years time, will
19 actually have -- based on the draft Environmental Impact
20 Statement, the numbers that were developed then -- close
21 to a billion dollars. That surplus, that is to be used
22 to expand or replace some of the equipment. That is
23 something that is in no other technology.

24 There is one other document in here I want to call
25 your attention to, and that's from the American

1 Association of Railroads. Everybody has the idea that
2 they want to put a fast train on the freight railroads.
3 Somebody has got to pay attention to the fact that
4 freight railroads own that track. That is their
5 property. When you invade it, they're going to want to
6 get paid for it. They tell you straight up front, "At
7 low speeds, track generally can be shared between
8 freight and passenger. At higher speeds, tracks should
9 be separated and dedicated as they are in the
10 overwhelming majority of high-speed rail systems around
11 the world." There is a geometry issue here.

12 We have the best freight railroad system in the world
13 that we don't want to jeopardize. But to carry freight,
14 heavy freight, takes a toll on the track. If you want
15 to try and maintain that to haul high-speed trains,
16 you're getting into different geometries. Elevation,
17 superelevation, the outside rail, banking curves. You
18 can't take that kind of curve and then come along with a
19 17,000-ton coal train and go around that curve.
20 Particularly, if you come to a stop. You can't have
21 your cake and eat it too, and that's why France, Japan,
22 and all of those places, they have separate and
23 dedicated right-of-ways. That will work in the long
24 haul. We're going to spend more money on maintenance.
25 I urge you to look at this document. They are very

1 specific about they want paid, they want release from
2 liability, they want upgrades. We're going to spend a
3 lot of money upgrading our freight railroad system just
4 so we can run a few passenger trains. The truth of the
5 matter is, we need to have a separate and dedicated true
6 high-speed system that will serve the traveling public.

7 The last thing, there is a document that at your
8 leisure you can look at. It's an analysis of this
9 project against the criteria that the Federal Railroad
10 Administration put out as to how they're going to make
11 the decision on which projects to fund. It's
12 step-by-step. It addresses every question. It will
13 explain to you how our system can match up against the
14 criteria for them to make a decision on funding.

15 With that, I thank you for your time and I appreciate
16 the hearing and the opportunity to testify.

17 CHAIRMAN MARKOSEK: Don, you did it. You
18 were great up there. You had to follow a couple of
19 tough acts. All three of you did very well.

20 Representative Costa.

21 REPRESENTATIVE COSTA: Thank you, Mr.
22 Chairman. I thank the three of you for testifying. It
23 was very exciting. I did enjoy listening to it,
24 especially your virtual tour. That was pretty cool.

25 Billy, I didn't realize that I was yelling at the guy

1 from the Federal Rail Association, or at least to give
2 that impression. Like you, I am very passionate about
3 this. The potential that we have for our region for
4 jobs. Like you mentioned, years ago we were the steel
5 capital of the world. We could be the Maglev capital of
6 the world. The jobs and the new technology that we
7 could provide, not only for labor, but for the high-end
8 engineering and technology. Just a potential and such a
9 great opportunity. I get frustrated when we're not
10 taking advantage of it. I almost assume this is what
11 President Obama was talking about when we need to find
12 new industries. So hopefully they're going to start
13 listening to us, or at least that passion that you and I
14 share. Thank you.

15 CHAIRMAN MARKOSEK: Representative Wagner.

16 REPRESENTATIVE WAGNER: Thank you, Chairman.

17 I'll second Representative Costa's comments. This is
18 a fantastic opportunity, and I would really like to see
19 it happen. With that, I would like to thank all of you.
20 Not just for your enthusiasm, but for your advocacy.
21 Particularly Mr. Dunlevy, who has been very, very
22 helpful in educating me on any questions I've had on
23 this.

24 Two quick questions. First, could you just quantify
25 the investment made so far in the Pittsburgh Maglev

1 Project, and the portion of that that has been
2 public-funded.

3 MR. DUNLEVY: I can get you a breakdown that
4 we have by federal, state and private investments. I
5 don't have that with me. Our Environmental Impact
6 Statement has cost about 18 million dollars just from
7 the environmental work. I think it totaled about
8 30-some million dollars has been spent on the entire
9 project and the development of the fabrication
10 technology, development of the right-of-ways, and that
11 kind of thing, in addition to the environmental work.
12 That is over 21 years. Time flies.

13 REPRESENTATIVE WAGNER: I think it's
14 important to point out beyond job creation and so forth,
15 the invested interest that we have in terms of the
16 investments made so far.

17 MR. DUNLEVY: Let me say this: I share Mr.
18 Costa's frustration. The funding that's out there right
19 now, we need to move that somehow around. Some to
20 state, some to this federal. It took three years from
21 the passage of safety included 90 million dollars from
22 Maglev, half of which went to Las Vegas, and the other
23 half went to the eastern half of the United States east
24 of the Mississippi. That took three years because there
25 was an error in the drafting. They had to get a

1 technical correction. Politics being what they are,
2 that took three years. When they finally passed the
3 technical correction in June of '08, the notice that the
4 funding was available didn't come out until October.
5 Projects were allowed to bid on it. Only three projects
6 were eligible, and they had until February of '09 to
7 file the applications for just those three projects.
8 Then the decision wasn't made until September.

9 If we move -- we're trying to build high-speed rail
10 and we've got slow-moving paper. That's the biggest
11 obstacle that we have is overcoming those delays. I
12 spoke to the governor a couple of weeks ago. The House
13 of Democratic Caucus gave the legislative an issue grant
14 through the Department of Community and Economic
15 Development. Of course, through the budget process, we
16 know what happened. But I've asked them to release
17 that. That is something we need to get moving. When
18 Deputy Secretary Fauver talked about -- and I guess also
19 Associate Administrator Yachmetz mentioned -- that we're
20 not at that design or that engineering end yet, because
21 the money is laying there and we could be doing that
22 work now. We could be in position when they make this
23 decision in January.

24 But I asked the governor about another grant that we
25 got from Allegheny County. They've gone through all of

1 the processes. Senator Specter's \$950,000 will match
2 that. There has to be a one-to-one match with federal
3 and state money. The paperwork went down to the
4 Redevelopment Authority of Allegheny County for the
5 signature on October the 1st. It was sent back October
6 the 2nd. When they followed up on it, they said it's
7 going to take two to three months to get five
8 signatures. So I asked the governor about it and he
9 said "no way," and I saw him two weeks later and I said,
10 "Well, Governor, it's going to be four weeks on Monday."
11 He said, "See. I told you," and I said, "No, Governor,
12 it's going to be four weeks and we don't have any
13 signatures." It's going to be five weeks this Monday.

14 Now, I gave him the document, and he wants to take
15 care of it. Look, I know everybody has the weight of
16 the world coming down on them. Our budget process
17 didn't go too smoothly. This is a major, major project.
18 More jobs. It's wall-to-wall jobs. Somehow, we need to
19 move that. That is just a couple of examples. I don't
20 really mean to attack them, but I am so frustrated with
21 21 years of involvement in this project knowing that
22 we're within arm's reach of this, creating an industry
23 and creating jobs, and it's just over the brink and we
24 can't get it. So anything you folks can do to help on
25 behalf of all the citizens of Pennsylvania, we greatly

1 appreciate it.

2 REPRESENTATIVE WAGNER: Just one more quick
3 question. I asked this earlier, but I'd like to hear it
4 from your perspective, how Pittsburgh Maglev compares to
5 the other two applications in Pennsylvania, and where
6 you see any prioritization at the state level, if, in
7 fact, there is any.

8 MR. DUNLEVY: Referring to the Atlanta,
9 Chatanooga, and the Baltimore --

10 REPRESENTATIVE WAGNER: Within the
11 Commonwealth of Pennsylvania. Keystone --

12 MR. DUNLEVY: Oh, the other two high-speed
13 projects?

14 REPRESENTATIVE WAGNER: Right.

15 MR. DUNLEVY: The Keystone service between
16 Harrisburg and Philadelphia is currently operating at
17 110-miles-per-hour. They've had plans for years to
18 eliminate those three grade crossing to get it up to
19 125. They're also going to do some other changes in
20 concrete, putting some electrical connection signaling
21 systems in. It's a very good system, but when we talk
22 about O&M, that little section, 100 miles, costs about 8
23 million dollars a year in O&M to keep it running. That
24 is owned by a passenger company, not by a freight
25 company. So very little freight actually runs on that

1 line. The other thing about it is Amtrak has given
2 notice that they want a 15% increase. So the O&M cost
3 next year is about to go up to 9.3 million.

4 If you look at coming west of Harrisburg, over the
5 mountains, I mean, we're talking Harrisburg to
6 Philadelphia is pretty flat. It's river grade, and you
7 don't have the curves and the hills. Just interpolate
8 250 miles at the same cost, it's going to be a few
9 bucks. Now, we've got hills to deal, grade separation,
10 water runoff. We've got a lot of other elements, and
11 we're going to spend a lot of money to do it.

12 The Scranton to New York project actually, at one
13 point, we were asked to give -- full complement of
14 engineers -- to give a quick evaluation of what would
15 happen, because they wanted to do high-speed. They went
16 to one of the congressman, he referred it to us at
17 Maglev because they were looking for 140-miles-an-hour.
18 Our engineers actually did a very quick right-of-way.
19 Rather than following the existing old right-of-way,
20 which has a lot of track missing, followed Interstate
21 380 down to the Delaware water gap, and over the Jersey
22 transit into New York. That trip from Scranton to Penn
23 Station in New York would be about 40 minutes.

24 If we were to ever do that, my recommendation would
25 be by land in Scranton, because it's going to be pretty

1 valuable. That is doable. That is not a pipe dream.
2 The question is: How long do we wait to do it? We've
3 got to get a project built somewhere on Maglev just to
4 get it moving. I guarantee when one is up, and the
5 people in this country have an opportunity to see it,
6 it's going to go like wildfire.

7 The Scranton project I know has some other work to
8 do. The Harrisburg to Philadelphia project is very
9 easily doable. They are going to do it in two or three
10 stages. It's almost a billion dollars. I don't know
11 how you walk away from that. I think it's a very
12 effective service and a lot of people use it. I would
13 recommend maintaining that. Traversing the Allegheny
14 mountains and getting across the hard part of
15 Pennsylvania makes more sense to me in that regard.

16 CHAIRMAN MARKOSEK: There are no more
17 questions. Thank you. Thank the three of you.

18 Mr. Scott Paul, Executive Director of the Alliance
19 for American Manufacturing, and Mr. Torrey Babson,
20 Economic Architect for GSP Consulting are here next.
21 Gentlemen, we thank you for letting us change the
22 schedule there slightly.

23 Mr. Scott Paul, you may begin, sir, and after you,
24 Mr. Babson.

25 MR. PAUL: Thank you, Mr. Chairman and

1 Chairman Geist, and Members of the Cabinet. I
2 appreciate your patience this morning as well. Chairman
3 Geist, essentially, delivered my testimony for me about
4 the opportunities for manufacturing jobs. I think what
5 I might do is hit some of the highlights.

6 First, I will tell you about the organization that I
7 represent. The Alliance for American Manufacturing is a
8 unique partnership. It's the United Steelworkers Union,
9 and a number of Pennsylvania-based employers, including
10 United States Steel, ArcelorMittal, Allegheny
11 Technologies, and many others. We work on issues of
12 common concern. One of those being job creation and
13 structure, development. This is why Maglev, in
14 particular, is such an interesting issue to us. I'm
15 going to talk briefly about some of the manufacturing
16 gains, some of the clean energy implications, and then
17 also offer a couple of different ideas on financing.
18 Because it goes without saying, that this is not an
19 inexpensive proposition to move forward, but what some
20 of the benefits to the community would be to pursue such
21 a path.

22 You've already heard the estimates of the raw
23 materials that it would take to build 54 miles of this
24 same, just anecdotally, from the Pittsburgh Airport to
25 Greensburg, and the amount of steel plate and other

1 types of material that would create extraordinary
2 demand. To put it into perspective, if you were to
3 build 200 miles of Maglev, it would keep the largest
4 steel mill in the United States in operation year-round.
5 It would probably boost overall domestic demand for
6 steel by 12%. That's just 200 miles of track, so you
7 can see the gains for the steel industry would be
8 extraordinary. Both for the manufactures of steel for
9 this particular project, but also for other steel
10 manufactures who would then be soaking up the rest of
11 the demand.

12 I would point out that all work is important, and
13 Billy George mentioned the job figures, which
14 nationwide, are 10.2%. But the importance of
15 revitalizing manufacturing cannot be understated,
16 because that is usually the framework for other jobs in
17 the community. A manufacturing job is not a temporary
18 job, or a construction job. It's there for the long
19 haul. It's going to be there with some investment for
20 10, 20, 30 years. It also has a higher multiplier
21 effect. It will support four or five other jobs in the
22 community, and it tends to pay better wages. So in
23 particular, investment, such as, an investment in Maglev
24 is going to provide a greater return in the community
25 than other types of spending.

1 The other piece that I was saying is that the
2 importance of investing some money in this project right
3 now is important for a couple of reasons,
4 internationally and domestically. The United States is
5 a generation behind in our advanced infrastructure,
6 especially with regard to high-speed rail. If there
7 were a gold medal stand in the Olympics for high-speed
8 rail, we wouldn't even make the metal platform at this
9 point. In fact, we would probably be dropped out after
10 the first round. We don't even make it into the top ten
11 in a lot of categories in high-speed rail. This is a
12 portion of our infrastructure that has been grossly
13 neglected.

14 The other piece of this, and this has important
15 implications for manufacturing, is how manufacturing
16 clusters get started. Manufacturing jobs generally go
17 where the investments are made, especially if you have
18 some domestic content requirements attached to that,
19 like, a lot of federal highway transit money does. It
20 results in spinoff industries, and you heard Maglev,
21 Inc. talk about some of those. Not only can this
22 capacity be developed to construct Maglev, it can also
23 be applied to other uses, such as, ship building, other
24 types of welding and materials handling. So the types
25 of technologies that you're going to spawn in McKeesport

1 are going to have applications to other industries, and
2 it's going to have the opportunity to create an entire
3 cluster of manufacturing industries in the area.

4 You see this in other areas. You see where the
5 biotech corridors are in the country and you can
6 identify them. You can see with semiconductors and high
7 tech. You can see a generation or two ago with steel
8 and automobiles. This same thing applies to this type
9 of technology, so making this investment here and now is
10 going to pay dividends. Otherwise, somebody is going to
11 make the investment and these jobs are going to be
12 produced to the customer. A professor here at Carnegie
13 Mellon, Dr. David Bourne, who is at the Robotics Lab has
14 done a lot of work with us. One of the things that he
15 likes to talk about is how we have sacrificed almost an
16 entire generation of advanced welding and machine
17 tooling because of the decline of our manufacturing
18 base, and the fact that much of our research and
19 development has been focused on other sets of skills
20 rather than developing this.

21 As a result, you see this type of advanced
22 manufacturing robotics in Korea, you see it in Japan,
23 you certainly see it in Germany, in China, but it has
24 yet to flourish in the United States, and a significant
25 investment in Maglev through the federal government

1 would give us the opportunity. Governor Rendell said at
2 a conference he hosted last week in Washington called
3 Building The New Economy, and he made reference to a
4 point that I think is important. One way or another,
5 high-speed rail is going to come through Pennsylvania
6 just through an act of geography. We have to connect
7 the Northeast Corridor with the Midwest somehow if there
8 is going to be an intercity passenger rail service.
9 It's much better to do that on your own terms than to
10 have the terms dictated to you. Getting the community
11 behind this investment in Maglev is the absolute best
12 way to do that, so that you have the opportunity to
13 develop that. I want to talk about financing for a
14 second, because I think this is a major challenge. The
15 number of applications that the U.S. Department of
16 Transportation has received, the amount that is being
17 requested and the total that I have is actually 102
18 billion dollars from all of these projects. Obviously,
19 we're going to have unmet needs, so we have to look at
20 other ways to try to also finance or provide
21 supplemental financing for these types of projects. One
22 thing that I would urge you to consider embracing is
23 support on both a state and a federal level in
24 infrastructure bank. It is proved to pay dividends in
25 other parts of the world. John Surma, the Chairman of

1 U.S. Steel, was just telling me about infrastructure
2 bank in a Serbia, that it has financed a large amount of
3 infrastructure development. What it would essentially
4 do is leverage the issuance of bonds, and it would have
5 an independent board that would weigh the relative
6 merits of the projects based on their efficiency, their
7 job creation, and other sorts of factors. But in
8 addition to the pay-as-you-go financing that is
9 available from the federal government right now, which
10 is very limited, it would leverage tens of billions of
11 dollars in additional resources.

12 The good new is, is that it's something that is in
13 the Obama Administration's budget. But I think it's
14 going to take political will to get this done, because
15 as you know, there is calls for focus on different kinds
16 of spending and tax relief. But this is the type of
17 investment that is going to return dividends for
18 generations to come.

19 The last point that I would make about this is that
20 one thing we believe very strongly in, in something that
21 I suspect you all support, is the notion that this
22 should be made in Pennsylvania, or made in the United
23 States. The real value out of it in terms of jobs that
24 comes with a project like Maglev is the manufacturing.
25 You know the construction jobs are going to be created

1 here just because they can't be created anywhere else if
2 you're going to build it, but what you don't know is the
3 manufacturing. We certainly don't have the capability
4 to make all of the rail cars now, but as you heard, the
5 gentleman from Transrapid mention, bring that capability
6 to the United States. One thing that we feel very
7 strongly is that any tax dollars that are leveraged be
8 used to create jobs in the United States, so strong
9 domestic content requirements should be attached to any
10 funding moving forward.

11 We're excited about this opportunity, because we
12 really do think that this position, the Pittsburgh area,
13 is a model for the rest of the country. Not only in
14 terms of the development for transportation in intercity
15 rail, or high-speed rail from the airport to the city,
16 but also as a manufacturing corridor as well.

17 The last piece that I would mention is just about the
18 clean energy, or the green impact of this. Per
19 passenger mile for a 400-mile trip in a car, you are
20 emitting well over one pound per passenger mile of
21 carbon dioxide emissions. For an airplane ride that is
22 400 miles, it's about 3/4 of a pound per passenger mile
23 that is being emitted. For something like Maglev, it's
24 well under half a pound of carbon dioxide emissions per
25 passenger mile. So it's a much cleaner way to do this,

1 and as we develop a more diverse set of energy options
2 for the electricity as well, including clean coal and
3 natural gas and wind energy, that's going to come down
4 significantly. Where it's not going to come down for
5 airplane transportation. It's only going to come down
6 modestly for automobile transportation. So this is
7 really an investment in energy economy as well.

8 Thank you for your attention. We will do whatever we
9 can to support Maglev. Thanks for the opportunity to
10 testify.

11 CHAIRMAN MARKOSEK: Thank you.

12 Mr. Babson.

13 MR. BABSON: Chairman Markosek, Chairman
14 Geist and Members of the Committee, I want to thank you
15 for affording me the opportunity here to speak before
16 you. Much of what I wanted to talk about has been
17 stated, so I don't want to restate some of the obvious.
18 There has been so many great comments. I do want to
19 touch upon some of the policy implications of a Maglev
20 system.

21 Really briefly about GSP Consulting. I work in their
22 economic architecture practice, and we conduct a lot of
23 economic analysis, work on transportation projects, and
24 a lot of various types of economic develop projects in
25 both this region and throughout the United States.

1 Additionally, our staff has been working, has had
2 experience with the Maglev Project since the original
3 Intermodal Service Transportation Act of 1991.
4 Specifically, Stephen McKnight on our team has been very
5 involved.

6 First, I want to say that Maglev will address a
7 number of different issues in things that we're trying
8 to accomplish here in the region, and that ladies and
9 gentlemen on the panel, I know you have been very
10 involved in. There is economic, environmental, and a
11 lot of social equity implications of this project.
12 Firstly, Maglev represents a nice shift towards smart
13 growth development. It really will help connect the
14 region, especially between various counties around the
15 Pittsburgh area. More so, with various jobs with
16 possible employees.

17 There is often a real difficulty for low-income
18 workers to be able to access jobs. There are a lot of
19 facilities, they often get built on green space,
20 unfortunately, out more in the countryside where it's
21 often land is cheaper, but the employment supply is
22 less. This will be able to provide a nice connection
23 between folks, maybe in the city, with jobs in
24 Westmoreland County, for instance.

25 Secondly, there are definite harms in terms of

1 automobile traffic, and this has been discussed. There
2 is congestion, there is pollution, and there is cost of
3 gas. We have seen huge fluctuations in the price of
4 gasoline based upon our dependance on foreign oil.
5 Maglev will help to mitigate some of those harms. I
6 want to get into a couple of these just really quick.

7 Firstly, linking back to the jobs discussion, we have
8 been very involved with a lot of the green jobs work
9 that has been going on in the Pittsburgh region, as well
10 as, in a couple of other states, including the State of
11 Minnesota. One of the things that Maglev can do is
12 entrain informational projects. We have seen, and
13 according to our research, there is actually efficiency
14 of many jobs that have green applications in the region.
15 These aren't just going to be biotech engineers,
16 environmental scientists, these folks are welders, metal
17 fabricators, construction workers. There is a role
18 within the green economy for many, many types of jobs
19 and employees.

20 What we're seeing is a lack of people going into
21 these roles, along with the older retirement workforce
22 that we're experiencing in the region. We've got really
23 great community college and apprenticeship programs with
24 our unions. I think a transformational project, like
25 Maglev, will really help to ignite interests in some of

1 these traditional blue-collar jobs, and show them that
2 there is a very real green impact that they can have
3 both on the economy, their environment, and it also
4 helps in terms of social equity. It can connect people
5 who may not have an interest, or the ability to go to a
6 four-year college or university, or onto graduate
7 school, where some of these high-tech jobs lie and be
8 able to connect them with what is going on in the
9 region, what is going on in the environment.

10 I also want to second a lot of what has been said
11 about the early adoption. It's so important. It has
12 been mentioned a number of times that this is going to
13 be done somewhere. I think it's very important that we
14 mention and talk about early adoption. It's consistent
15 with economic development projects around this country,
16 that early adopters, they really get a good splice of
17 the eventual benefits. There is definitely a lot of
18 spinout opportunity. One of the great examples, I
19 think, is actually HP. They located a facility back in
20 the mid-70's in Boise, Idaho of all places. It actually
21 worked really well with the economics and the strengths
22 of that region, and they have seen spinouts over the
23 years of at least, probably, 60 to 80 different
24 companies with related technology, but helping to build
25 that regional economy. It has national implications --

1 I mean, there are HP printers all over the United
2 States, all over the world, and they have seen a lot of
3 success in terms of the economics of that region.

4 Finally, I just want to speak really briefly about
5 the environmental benefits. In terms of our air quality
6 here. In 2007, we were rated as having the second worst
7 air quality in the United States. There is definite
8 manufacturing, but a lot of pollution caused by
9 automobiles and traffic. Going through and just doing a
10 little bit of calculation, if you took 10% of the daily
11 commuters who travel from Westmoreland County to
12 Pittsburgh and we took them off the road, we would see
13 an annual decrease in carbon emissions from those
14 vehicles in over 84,000 pounds. This is not
15 withstanding all of the other areas that Maglev could
16 connect and help take daily commuters and other
17 travelers off the road, which would really enhance the
18 environmental picture here and the overall air quality.

19 Finally, I want to second what has been said in terms
20 of the overall environmental impact, because it's so
21 limited. It really is something that not only is
22 positive for the region, but again, United States and
23 the world can look to the Pittsburgh region as we build
24 off the success of events like the G-20, and the number
25 of buildings and other projects we have going on here to

1 really be a leader in environmental and economics, and
2 connecting all of those three for the overall uplifting
3 of our entire economy and everybody who lives in this
4 region.

5 With that, I want to thank for the opportunity to
6 speak before you. I strongly support what you are doing
7 here. Thank you.

8 CHAIRMAN MARKOSEK: Thank you very much.

9 Representative Longietti.

10 REPRESENTATIVE LONGIETTI: Thank you, Mr.
11 Chairman. Thank you for your testimony.

12 I want to particularly recognize the Alliance for
13 American Manufacturing, Mr. Paul's organization and the
14 important work that you do to protect American
15 manufacturing. In my district, Mickey Bolt works for
16 the Alliance on the steelworkers side and does an
17 excellent job. We had some cases that went through the
18 International Trade Commission, as you know, Mike Duncan
19 and Type II of Chinese and some success there. There
20 has been a lot of talk of the steel beams that would be
21 needed for the Maglev Project. We, too, in my district,
22 makes a Type II of conduit for electronic wire
23 components. If you could just speak a little bit of the
24 need or the demand for a conduit piping project like
25 this.

1 MR. PAUL: It's a good question. I will be
2 the first to admit that on the technical aspects of the
3 project, you'll probably get a better answer from the
4 Maglev folks. But I am happy to talk about some of the
5 opportunities. In talking with people from within the
6 steel industry, they are particularly excited about
7 this, because it represents -- it could potentially
8 represent a large increase in aggregate demand. The
9 other thing that the steel industry excels at, I think
10 this is something that is forgotten -- certainly not
11 written about enough -- is the high-tech nature and the
12 adaptability of it.

13 Leo Gerard, the President of the Steelworkers, likes
14 to remind people that the steel that's in an automobile
15 today didn't even exist ten years ago. It wasn't even
16 thought of ten years ago. The way they're able to
17 change the formulation. And there are some companies
18 around here who do a very good job of that. It's the
19 hub of the steel technology in a lot of ways in the
20 entire country, or at least the world.

21 The other thing to point out is I think that this
22 area will be well-positioned because it's a highly
23 efficient steel industry. Even though the workers are
24 well compensated, the amount of production they're able
25 to do in a man-hour compared to their overseas

1 competitors is unlike even the most efficient steel
2 mills in the entire world. The piece of this that is so
3 important is that on a level playing field, these
4 manufactures can compete with anyone and can grow their
5 workforces. The thing about procurement and public
6 investment is important is that it has an invested
7 content requirement attached to it, so we're
8 guaranteeing that this work is going to the most
9 efficient producers in the United States.

10 I appreciate your advocacy on our issues. I know
11 Mickey Bolt is one of our outstanding employees and I
12 know he enjoys working with you immensely.

13 REPRESENTATIVE LONGIETTI: Thank you very
14 much. I certainly will follow-up with the folks from
15 Maglev. I noted from earlier testimony that a lot of
16 electronic components are used for this type of project.
17 I envision the need for conduit type of pipe that we can
18 produce. Thank you.

19 CHAIRMAN MARKOSEK: Thank you,
20 Representative.

21 Before we adjourn, I do want to say the Committee did
22 reach out to some other groups. Some of which are not
23 as enthusiastic about the Maglev Project as what we have
24 heard here today. We reached out to the Commonwealth
25 Foundation, the Allegheny Institute, as well as the CATO

1 Institute. Out of the Allegheny Institute and the
2 Commonwealth, did not provide any input. The CATO
3 Institute did provide written testimony, so we will have
4 that distributed as well. Also, we got an e-mail letter
5 from Representative Hancotti (phonetic), Allegheny
6 County, who had some concerns as well. We got that late
7 last night, so we didn't have it here to distribute, but
8 we will distribute that to the Committee as well.

9 With that, I know we have people who have to get on
10 the road. I want to thank everybody here for their
11 testimony, and for being here today. Particularly, CMU
12 for allowing us to use this beautiful room. And the
13 folks at PCN who always do such a great job, and their
14 efforts as well.

15 One other announcement, the Transportation Committee
16 will meet on Tuesday, November 10th at 9:00 a.m. in
17 Harrisburg at the Capitol, Room G-50. We have several
18 pieces of legislation would like to move. Other than
19 that, there is no other business, so meeting adjourned.

20 Thank you.

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C E R T I F I C A T E

I hereby certify that the
proceedings and evidence are contained
fully and accurately in the
stenographic notes taken by me on the
hearing of the within cause and that
this is a correct transcript of the
same.

COURTNEY E. KROPELAK