

COMMONWEALTH OF PENNSYLVANIA  
HOUSE OF REPRESENTATIVES  
SUBCOMMITTEE ON TRANSPORTATION SAFETY

\* \* \* \*

In re: Federal Clean Air Act 1990

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Stenographic report of hearing  
taken in Room 202, City Hall,  
Philadelphia, Pennsylvania

Thursday  
March 26, 1992  
10:00 a.m.

HON. KEITH R. MCCALL, CHAIRMAN

MEMBERS OF SUBCOMMITTEE ON  
TRANSPORTATION SAFETY

Hon. Richard Hayden  
Hon. Dick L. Hess

Also Present:

Bob Hollis, Executive Director, Northeast Delegation  
Paul Parsells, Executive Director Transportation Committee  
Paul Landis, Executive Director, Transportation Committee, Minority

Reported by:  
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George Seidel, Associated Petroleum Industries  
of Pennsylvania

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Michael Redemer, Manager, Air Quality Programs  
for Texaco

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Elaine Farrell, Executive Director, AAA Federation

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1 CHAIRMAN MCCALL: Good morning. I would like  
2 to call this hearing to order. My name is Keith McCall. I am  
3 a Representative from the 122nd Legislative District and  
4 Chairman of the House Subcommittee on Transportation Safety  
5 charged with taking testimony on the 1990 Clean Air Act  
6 Amendments. Seated to my right is Representative Hayden,  
7 Richard Hayden, who is doing the stationary s o u r c e  
8 legislation. I will be doing the mobile source legislation.  
9 To my left is Bob Hollis, who is the Executive Director of the  
10 Northeast Delegation and here helping us with testimony.

11 For a matter of public record, this public  
12 hearing has been sunshined and we have that notice up here.

13 Welcome to today's hearing. I would like to  
14 take this opportunity to thank Mayor Rendell for the use of  
15 his beautiful reception room and the willingness of his staff  
16 to accommodate all of our needs.

17 The purpose of this public hearing is to  
18 explore the impact of the Federal Clean Air Act of 1990 as it  
19 relates to Pennsylvania in one specific area.

20 The charge of this Subcommittee is to analyze  
21 and define how the issue of mobile source emissions can be  
22 controlled and reduced in order to meet federally mandated  
23 guidelines.

24 Just to give a little bit of background, the  
25 Clean Air Act amendments, otherwise known as the Clean Air

1 Act of 1990, was signed into law on November 15, 1990.

2 After the EPA developed and issued minimum  
3 standards for inclusion in state auto emission plans in 1991,  
4 states had up to one year to develop and submit new proposed  
5 standards to the EPA that incorporated new criteria under the  
6 Act.

7 New state auto emission plans are expected to  
8 be implemented no later than two years from the date of  
9 enactment of the legislation which would be November 15, 1992.

10 Currently, annual auto emission tests are  
11 required in only eleven counties. These tests are performed  
12 at state authorized motor vehicle inspection stations,  
13 typically gasoline stations and auto repair shops at a state  
14 regulated price of \$8 for each test. However, as a result of  
15 the Clean Air Act of 1990, 33 counties will require emission  
16 testing in Pennsylvania.

17 So, in continuing with testimony from those  
18 associated with this issue either in the automotive industry,  
19 environmental groups or consumer advocates, we'll hear from  
20 representatives from Texaco, AAA, and the American Lung  
21 Association to name a few.

22 The first to testify today is George Seidel of  
23 the Petroleum Industries of Pennsylvania, and with him,  
24 Michael Redemer, manager of the Air Quality Control Program at  
25 Texaco, U.S.A., who will present testimony about

1 California's auto emission standards and inspection  
2 procedures.

3 Gentlemen, welcome.

4 Would you identify yourself for the record?

5 MR. SEIDEL: George Seidel, Associated  
6 Petroleum Industries of Pennsylvania. When the Committee  
7 expressed an interest in having a presentation on California  
8 standards, preferably someone who was from California and  
9 involved with the program out there, I couldn't think of  
10 anyone better than Michael Redemer. Mike is a native of  
11 California having grown up in the San Joaquin Valley out  
12 there and has a masters in environmental engineering from  
13 USC and worked for a number of years in the late '70's and  
14 early '80's for the California Air Resource Board or CARB  
15 which we associate with these standards and the other  
16 environmental air programs in California.

17 He is actively involved at both the state and  
18 the federal level with legislation and regulations involving  
19 air quality. So, we are pleased that Michael is available to  
20 come in from California and to talk with you about the  
21 California standards. Manager of Air Quality Programs for  
22 Texaco since 1987. Mike.

23 MR. REDEMER: Good morning. Mr. Chairman,  
24 members of the Committee, my name is Michael Redemer and I  
25 am the Manager of Air Quality Programs for Texaco. I happen

1 to be based in Universal City, California which is about eight  
2 miles north of downtown Los Angeles. As George has  
3 mentioned, I have lived in California my whole life and have  
4 been involved with air pollution problems in California since  
5 1972. So, I have about 20 years of various experience. Most  
6 recently working in the industry trying to deal with some of  
7 these issues from the standpoint of the petroleum industry in  
8 the business community.

9 When I was asked to come and testify today, I  
10 must admit a certain lack of familiarity with the specific  
11 air quality problems in Pennsylvania having spent most of my  
12 career in California. And so, in an effort to educate myself  
13 before coming before you today, I did go through some data  
14 and looked briefly at the severity and duration of all three  
15 ozone and carbon monoxide problems in Pennsylvania compared to  
16 what we have in California to try to get a feel for the differences and  
17 similarities between the two.

18 As you probably know, motor vehicles are  
19 primarily responsible for creating volatile organic compounds  
20 and NOX which create ozone, and, of course, carbon  
21 monoxide. If I'm allowed, I would like to show you some  
22 slides. My initial comments will relate more to the air  
23 quality issue, but I will get into the motor vehicle  
24 program in the latter part of my testimony. As I said, I  
25 did want to take a look at the difference between the air

1 quality problems in the two areas. So, what I did was, first  
2 of all, look at the severity of the exceedances that you  
3 experience here in Pennsylvania compared to the severity of  
4 the exceedances that we commonly see in California. From this  
5 first slide you can see I have characterized, I apologize for  
6 the fuzziness but there is nothing I can do about it. These  
7 are basically ozone design values which are basically the  
8 planning levels. What do you use as a target that you have to  
9 deal with for Pittsburgh, Philadelphia and Allentown compared  
10 to design values for Southern California as represented in the  
11 two boxes. The horizontal green line represents the federal ozone  
12 standard. That is kind of the level we have got to get under  
13 to make a goal.

14 As you can see from this chart, I also have a  
15 peak one-hour ozone standard which is I was told is probably  
16 one of the worst ozone episodic years you have experienced  
17 in Pennsylvania for a number of years. As you can see in  
18 Southern California, we exceed the design levels in  
19 Pennsylvania by almost a factor of two. So, we have  
20 extremely high levels. We are talking 35 parts per million --  
21 no, that is not right, .35 parts per million. However, I  
22 should point out Southern California has come a long way since  
23 historically we used to get up around .45 or .5. So, in the  
24 last ten to 15 years there have been strides made because of  
25 the various progressive controls to improve the air quality.

1 CHAIRMAN MCCALL: What was the source of that  
2 information?

3 MR. REDEMER: The source of this information  
4 is basically some data that I got from the American  
5 Petroleum Institute. It is based on air quality and  
6 monitoring data that is collected by the Southwestern Quality  
7 Management District, the bars on the right-hand side and the data on the  
8 left-hand side, I believe comes from the Environmental  
9 Protection Agency.

10 The next thing I wanted to look at is how many  
11 days a year do we violate that horizontal green line. So, I  
12 looked at the three worst areas in Pennsylvania and compared  
13 them to three, I would say typical, although typical to bad  
14 areas in Southern California. And you can see the three boxes  
15 in the back represent Southern California and there again we  
16 have Redlands, Pasadena and Azusa. And you can see in 1988  
17 they exceeded the standards on about 120 to 135 days a year.  
18 It improved slightly as we moved into 1990 but we are still  
19 talking about exceedances in the neighborhood of 80 to 100,  
20 120 days. The 1991 data is incomplete because I couldn't get  
21 the fourth quarter. And you would have exceedances in  
22 Southern California in the fourth quarter. So, that is not  
23 entirely representative.

24 But I think a significant point here is you  
25 look at the three boxes in front. Those represent the air



1 quality situations in Pittsburgh, Philadelphia and Allentown.  
2 Now, what it shows is we may have had 120 days in Azusa, we  
3 only had in 1988 ten days in Allentown and in fact, 1990  
4 Allentown dropped to zero, Pittsburgh dropped to zero,  
5 Philadelphia experienced four days in which there were  
6 exceedances in the federal standards. So, basically what we  
7 are looking at is sort of an order of magnitude of difference  
8 in terms of the air quality problem. Again, this is my  
9 preliminary analysis. I haven't done a lot of detail, but the  
10 data pretty well speaks for itself.

11 The other pollutant I wanted to look at was  
12 carbon monoxide. And again, carbon monoxide comes  
13 primarily from motor vehicles and this basically is the design  
14 level, peak levels of carbon monoxide we have experienced.  
15 I picked Los Angeles which is the worst city in California and  
16 compared it to Philadelphia which is the worst city in  
17 Pennsylvania in terms of carbon monoxide.

18 (Laughter.)

19 MR. REDEMER: You will notice Los Angeles is  
20 much worse. Again, the federal standards represented by the  
21 horizontal red bar, 9, and as you can see, per peak hour  
22 exceedances in Los Angeles is almost double what you are  
23 experiencing in Philadelphia and Philadelphia is at 11.5. The  
24 standard is about 9. So, with the oxygenated fuels program  
25 coming on line this next fall, hopefully, we will see some

1 improvement in those values. That problem should decline.  
2 The other question is, how many days did Philadelphia  
3 exceed the standards. I only had data from the last two years.  
4 Again, this data came from data collected by the Southwest  
5 Air District and EPA records.

6 You can see in 1990 Los Angeles exceeded the  
7 carbon monoxide standards by 40 days during that year. Not  
8 as severe as ozone but it is still not inconsequential.  
9 Philadelphia did not experience exceedances of the carbon  
10 monoxide standard in 1990.

11 For 1991, again, the data is incomplete. I  
12 don't have the fourth quarter but up through the third  
13 quarter Philadelphia had experienced no exceedances of carbon  
14 monoxide standards. Los Angeles had eight. I would expect  
15 there were probably some additional ones in Los Angeles. I  
16 don't know, again, about Pennsylvania. But again, we are  
17 talking order of magnitude difference in the severity of the  
18 problem.

19 So, what conclusion does this lead one to? It  
20 is like they say lately, I know California. Let me tell you  
21 Pennsylvania is not California. But basically California's  
22 problem is not the equivalent of the problem in Pennsylvania.  
23 At least looking at the ozone and carbon monoxide. So, with  
24 that as background in trying to educate myself, I wanted to  
25 get on to talking about the program in California has adopted

1 to deal with extremely severe ozone problems that we saw in  
2 Southern California.

3 Basically, the California Low Emission Vehicle  
4 Program consists of four major elements. There is the motor  
5 vehicle fleet performance standards. You are probably  
6 familiar with those as the .125 TLEV, LEV, ULEV, which is low  
7 emission vehicle transitional auto emission. I will explain  
8 that in more detail. Those are the performance standards  
9 autos have to meet.

10 The second is a concept called a reactivity  
11 adjustment factor that ARB is proposing to apply to those  
12 emission performance standards. The third component is  
13 reformulated gasoline regulations that have been adopted.

14 And finally, our provision for alternative  
15 fuels.

16 The motor vehicle standards adopted in  
17 California are probably the most aggressive in the United  
18 States. Currently, if you look at everything above my hand,  
19 those are the standards that are currently in place. Now, let  
20 me explain one thing. This NMHC is what you call volatile  
21 organic compounds. We use a different term out there. It has  
22 to do with a lot of technical stuff. Essentially the volatile  
23 organic compounds standards are currently at .39 and they are  
24 going to drop to .25 in 1993. Those are already on the books.  
25 What ARB did last year was adopt a new set of low emission

1 vehicle standards. And those are represented by everything  
2 under NMOG, which is another term for volatile organic  
3 compounds. There was a major change when they did that for  
4 two reasons. The automobiles, every car that was sold had to  
5 meet those upper two rows of standards up through 1993. So,  
6 no matter if you bought an eight cylinder Cadillac or a  
7 four cylinder Toyota, they all had to meet those emission  
8 performance standards. With the adoption of the LEV Program,  
9 California also adopted provisions that required averaging.  
10 So, what that means is, based on the sales of the individual  
11 motor vehicle manufacturers, his cars that he sells in the  
12 market have to average those lower three rows of standards  
13 over time and they get progressively more stringent as you go  
14 through time.

15 This creates kind of a new dimension to the  
16 whole motor vehicle control program because now every vehicle  
17 may not have the same emission performance. Depending on how  
18 that manufacturer decides to sell vehicles in that market  
19 some may be high or some may be low. So, it is a bit of a  
20 departure from the historical all cars being the same  
21 standard.

22 CHAIRMAN MCCALL: What is the cost associated  
23 with that? Do you have any idea?

24 MR. REDEMER: CARB has estimated some costs,  
25 the numbers I have seen brought to \$20,000 per ton of VOC and

1 NOX. I am sure the autos have some numbers. That is  
2 probably ball park. It could be higher. It could be a little  
3 lower. It is not a trivial --

4 CHAIRMAN MCCALL: For the manufacturers to meet  
5 those standards do they have any idea what is the cost for the  
6 manufacturers to meet those standards?

7 MR. REDEMER: I wouldn't want to represent what  
8 the manufacturers would talk about their cost. I do know they  
9 have expressed some concerns. One of the provisions that you  
10 have to certify for 100,000 miles and that creates some  
11 tremendous problems from a design standpoint to build a  
12 system that is basically full proof. That is one of the major  
13 concerns that the autos have, particularly those very low,  
14 .04, .02 NOX numbers. People would argue that the zero  
15 emission vehicles which are essentially the electric vehicles,  
16 the technology doesn't exist. Of course, California has  
17 always prided itself on technology forcing. So, a part of  
18 these are to force technology in the market. I really can't  
19 address --

20 CHAIRMAN MCCALL: Is it possible to obtain  
21 that, that .02 on the NOX?

22 MR. REDEMER: It is theoretically possible I  
23 guess. Again, to maintain that for a 100,000 mile warranty  
24 is extremely problematic. So, the autos are really in better  
25 position to address how they were going to meet those

1 standards, but it does pose some tremendous challenges for  
2 them.

3 I should also point out that under the Federal  
4 Clean Air Act in 1994, basically, all the nonattainment areas  
5 in the country are going to have to go to this standard. So,  
6 that standard will lower motor vehicle emissions regardless of  
7 any action by individual states.

8 So, those are essentially the motor vehicle  
9 standards and the key thing is we are going from the absolute  
10 standard for every vehicle to an averaging concept with  
11 increasingly more stringent specifications and longer  
12 warranties.

13 Now, when the ARB adopted these  
14 specifications they also put some bells and whistles on.  
15 One of the big bells and whistles is a thing called the  
16 reactivity adjustment factor. I don't want to get into a  
17 great deal of detail on this, but this reactivity adjustment  
18 scheme basically is based on the assumption that not all  
19 volatile organic compounds are created equal. That some  
20 volatile organic compounds emissions from cars emit ozone  
21 more rapidly than others. It is a great theory. So, ARB  
22 adopted a mechanism to adjust those emissions standards I  
23 showed you on the previous chart based on the type of  
24 components that come out of the exhaust. They say that is a  
25 function of the fuel that goes into the car. So, they

1 created a mechanism to adjust those standards based on  
2 reactivity adjustment factors and there are some problems with  
3 this. First of all, they haven't defined what those factors  
4 are going to be. So, we don't know yet exactly how all these  
5 things are going to be adjusted.

6 Secondly, there is considerable scientific  
7 uncertainty and debate over the exact mechanism that ARB is  
8 proposing to adopt. And we have taken some fairly strong  
9 exceptions. There have been a number of scientists that have  
10 really expressed some concerns about assigning one factor to  
11 fit all vehicle fuel types.

12 I guess the last point I want to make is these  
13 factors, even if they were appropriate, would be regional  
14 specific. So, the factor that you would want to assign to  
15 Los Angeles or California might not be the same factor you  
16 want in Pennsylvania. Extremely technical, don't want to  
17 spend a lot of time on this. It is just another aspect of  
18 their control program you need to be aware of. If you have  
19 any scientists on your -- I would be happy to share a lot of  
20 information on this.

21 The third component to the Low Emission  
22 Vehicle Program, and one that is very dear to our heart, is  
23 Phase 1 and Phase 2 California reformulated gasoline  
24 standards. I don't want to get you confused with the  
25 federal standards. California has adopted their own

1 specifications.

2 CHAIRMAN MCCALL: Is California more  
3 stringent?

4 MR. REDEMER: California is more stringent.  
5 They adopted two phases. The first phase was adopted back in,  
6 I think, early 1990 or '89. It was effective January 1st of  
7 this year. And basically it required a lower vapor pressure  
8 on gasoline which would reduce the evaporative emissions.  
9 There is a deposit control additive required and they  
10 basically got rid of leaded gasoline. Our industry  
11 essentially supported that. We felt it was cost-effective  
12 and made sense and it was something that we basically didn't  
13 have any problems with.

14 However, more problematic was the second phase  
15 of regulations for gasoline. And as you can see, they  
16 basically adopted the specifications, a recipe for eight  
17 different components in gasoline which makes it extremely  
18 difficult to produce gasoline. The emission reduction  
19 benefits are fairly small. We estimate I think less than four  
20 percent of the total inventory and the cost per ton has been  
21 estimated to be anywhere from 50 to 150 to \$200,000 per ton of  
22 emissions reduced. So, it has been a subject of a great deal  
23 of debate in California in terms of adopting and implementing  
24 these specifications.

25 CHAIRMAN MCCALL: These standards, how are they



1 adopted, by regulation or through legislation?

2 MR. REDEMER: They were adopted by regulation.  
3 The Air Resources Board has been authorized in California, it  
4 is a board that is appointed by the governor and the  
5 legislature to basically hold hearings, take testimony and  
6 then they promulgate regulations. So, they held a series of  
7 public hearings on each of these items we have discussed and  
8 basically taken testimony from the public.

9 CHAIRMAN MCCALL: Was there any legislative  
10 oversight?

11 MR. REDEMER: They were implemented, yes, under  
12 current statutory authority they would be basically operating  
13 under the legislature.

14 The last piece, and I won't spend a lot of time  
15 talking about it, is the alternative fuel program which is  
16 part of the low emission vehicle clean fuel strategy. Its  
17 purpose really is to ensure that alternative fuel such as  
18 M85 which is methanol and gasoline, compressed multiple gas and  
19 other types of fuels, if vehicle manufacturers decide to sell  
20 those vehicles in California, there is a provision that the  
21 fuels have to be provided. Again, it is not something I want  
22 to spend a lot of time on, but it is an element of the  
23 overall Low Emission Vehicle Program and I guess for energy  
24 policy reasons since we have a very aggressive Energy  
25 Commission in California, that was put into the Low Emission

1 Vehicle Clean Fuel Program.

2 So, in conclusion I guess what I was trying to  
3 do is provide an overview of the Low Emission Vehicle Clean  
4 Fuel Program and it is not just standards, it is all four of  
5 these elements. And so, those elements really describe the  
6 benefits and the cost of this program which we believe for  
7 LEVs and fuel specs run from the high to the extreme range in  
8 terms of cost-effectiveness. I think there are other types of  
9 measures such as basic vapor recovery, probably lowering vapor  
10 pressures, enhance inspection maintenance, possibly vehicle  
11 (inaudible) would be much more cost-effective in terms of  
12 trying to wrestle with the problems at least as Pennsylvania  
13 has them compared to some of the more extreme measures that  
14 California may feel is appropriate.

15 Based on my brief review of the air quality  
16 data, it is critical I think that an accurate emission  
17 inventory be prepared for any state who wants to  
18 environmentally accept (inaudible). You have to actually  
19 find the problem to find the answer. I really encourage that  
20 to be done and whatever resources are necessary, you have got  
21 to have a good emissions inventory. If you don't know what  
22 is creating your emissions, you can't appropriately control  
23 them.

24 BY CHAIRMAN MCCALL:

25 Q Does California have an emission inventory?

1           A     They have a very extensive emission inventory.  
2     Actually, they first started doing fairly detailed emission  
3     inventories in the mid '70's and they have gotten increasingly  
4     more sophisticated. They have spent a lot of resources in  
5     keeping their inventory up to date and tracking.

6           Q     Was their inventory justified with their costs?

7           A     Well, I guess that is a matter of debate. I  
8     think, I mean, clearly the ozone problem is very extreme in  
9     the South Coast Air Basin. Some of the models, chemical  
10    models, where you can kind of play games, what if, what if  
11    they took these emissions out and run a model and it predicts  
12    what your ozone will look like. Some of those models  
13    estimate you would have to take 80 percent of the VOCs out of  
14    the Air Basin in Los Angeles to retain the standards, 80  
15    percent. Basically, they take a model, they shut all of the  
16    vehicles down, take them out, no emissions from vehicles, run  
17    a model and the improvements in air quality are on the order  
18    of ten, 15 percent.

19          Q     When will the standards for the reformulated  
20    fuel take effect?

21          A     March 1996.

22          Q     '96?

23          A     Which is a year after Federal Phase 1.  
24    reformulated gasoline is to be required.

25          Q     When did they adopt the California Low Emission

1 Vehicle Program and followed that up? Do you have any data  
2 that speak to the impact of that?

3 A The California Low Emission Vehicle Program was  
4 adopted I believe in the fall of 1990. The fuel  
5 specifications were adopted September of 1991, November of  
6 1991. I've got some rough estimates of the impact of the  
7 emission reduction for the Low Emission Vehicle Program. The  
8 Low Emission Vehicle Program in the year 2000 will have  
9 about a less than one percent reduction in the total volatile  
10 organic compounds inventory. The reason is those vehicles are  
11 phased in over time. The way it works is you see more  
12 benefits as you move out later in time. So, if you go out to  
13 the year 2010, the volatile organic impacts are a little less  
14 than six percent. So, you go from a little less than one  
15 percent to a little less than six percent.

16 BY REPRESENTATIVE HAYDEN:

17 Q What year is that?

18 A Well, that is that year. In other words, they  
19 basically have taken all their control measures and said, here  
20 is the reduction we expect over time. The remaining  
21 inventory left in the year 2000 or 2010, those are the  
22 relative numbers. The Phase 2 gasoline regulations are going  
23 to have, roughly, the numbers range between two and four  
24 percent reduction in the year 2000 and then those numbers drop  
25 in the future as vehicles get cleaner and fuel effects get

1 smaller and smaller. So, there is a diminishing return on the  
2 gasoline reformulation benefits. As you move through time and  
3 these old, dirty vehicles are removed from the marketplace,  
4 the benefits from the reformulated gasoline declines. So, it  
5 drops probably on the order of one percent or less in the year  
6 2000. So, that is kind of a relative sense of what the  
7 benefits are in California.

8 Now, Pennsylvania, again, it is going to be a  
9 function for inventory and vehicle population and it is going  
10 to be a little bit different in California.

11 CHAIRMAN MCCALL: What is the menu on that  
12 inventory? What things should we be looking at as far as  
13 setting up an inventory?

14 MR. REDEMER: Well, for volatile organic  
15 compounds, clearly motor vehicles need to be inventoried and  
16 there are models that you can run that will predict what those  
17 emissions look like. It is pretty much standard. It has been  
18 used by California and other states. Then you have got your  
19 stationary sources and you can go through the chemical  
20 processing, obviously, refineries, gasoline stations, dry  
21 cleaning. California, they have gone to the extreme of dealing  
22 with things like charcoal lighter fluid and underarm  
23 deodorant spray. I don't know that they need to go that far.  
24 But clearly there is a whole canopy of sources. I think in  
25 the east coast, particularly in natural vegetation there is a

1 lot of volatile organics and those need to be accounted for  
2 because those are going to influence how you receive the  
3 program.

4 On the other side of the equation there are  
5 oxides and nitrogen. NOx, which is the other part of the  
6 ozone problem. And there again, you have combustion fired  
7 vehicles, obviously refineries, power plants, space heating  
8 for buildings, commercial and residential buildings. And  
9 there are ways you can deal with those in terms of predicting  
10 what the emissions are. So, to some degree it is going to be  
11 specific by county. But it is important that you try to  
12 account for as much as that so you can find the problem.

13 Those are basically my comments. Do you have  
14 any questions? I would be happy to try to answer them.

15 CHAIRMAN MCCALL: For the record, I would like  
16 to introduce a couple of more members. We have  
17 Representative Dick Hess, who is the Minority Chairman of the  
18 Subcommittee. Paul Parsells, who is the Executive Director  
19 of the House Transportation Committee and Paul Landis, who is  
20 the Executive Director of the House Transportation Committee  
21 on the other side. Welcome. Questions.

22 BY REPRESENTATIVE HAYDEN;

23 Q Mr. Redemar, you refer to ozone exposure days  
24 in Southern California. Then you went on to describe on one  
25 of your charts was Redlands, Pasadena and Azusa. Could you

1 give us some indication as to the size of the land mass which  
2 is encompassed when you talk about Southern California or does  
3 it go as far south as the Baja Peninsula to as far north as  
4 north of LA County? Could you give us some idea how far that  
5 is?

6 A Yes.. The data that I represented probably  
7 represents the South Coast Air Quality Management District.  
8 It goes from Orange County in the south, I don't know exactly,  
9 I imagine the border of Orange County up to Kern County in the  
10 north to the San Fernando Valley. So, it is an area, oh, I  
11 guess, 50 or 60 miles long and maybe 70 or 80 miles wide.

12 The data on ozone nonattainment from  
13 California, that includes ozone experiences and other ranges  
14 within the state of California. The data that I showed you  
15 does not. I do have some slides to characterize that in other  
16 areas and I would be happy to --

17 Q Well, just generally, the San Francisco area  
18 has had problems with ozone nonattainment?

19 A Correct.

20 Q Any other parts of the state that have those  
21 problems?

22 A Yes. Well, basically the entire San Joaquin  
23 Valley Air Basin which runs from Bakersfield, Kern County in  
24 the south through Stockton, Sacramento County and the  
25 northern part of the state has experienced, although not at

1 these levels of severity, probably in those areas we are  
2 talking something in the neighborhood of 70 to 80 days a year  
3 violation. Still substantial but not 120 days. The Bay area  
4 experiences violations. The Ventura, Santa Barbara areas  
5 experience violations. It is fairly pervasive through the  
6 state. About the only place that doesn't is maybe up in the  
7 northeast corner in the state of California.

8 Q I don't know if you are aware our neighboring  
9 state, the state of New Jersey, all but two of the counties  
10 in the state of New Jersey are severe nonattainment for ozone.  
11 As you had, in fact, this Philadelphia air region includes all  
12 the way up to the city of Trenton, New Jersey, which compared  
13 to Orange County is less than 60 miles from here, the city of  
14 Trenton. Our air region also goes into Cecil County, Maryland,  
15 parts of Delaware and surrounding counties in the city of  
16 Philadelphia. As you head up further north you get into  
17 north Jersey and the New York City region, once again there  
18 are areas there with severe nonattainment. The same thing  
19 with the state of Connecticut, the same thing with the state  
20 of Massachusetts. I think that is probably one of the  
21 reasons Congress created by statute the Ozone Transport  
22 Commission which was to examine the ozone problem, frankly,  
23 over a land mass which is probably less than the size of  
24 California, certainly is less north to south in the state of  
25 California.



1                   So, one of the problems in evaluating what we  
2 do with ozone in Philadelphia is what impact is it going to  
3 have on neighboring states which is I feel why Congress  
4 created the Ozone Transport Commission.

5                   But I think that raises another question, which  
6 is, I don't think anybody who has ever raised the point that  
7 somehow the air quality in the state of Pennsylvania is as bad  
8 or nearly as bad as that experienced in the state of  
9 California. However, the federal statute talks about a  
10 mandate for required percentage reductions. I think you made  
11 a very good point about a good emissions inventory reduction  
12 program. That is something our department has talked about  
13 needing to do and is one of the justifications for the  
14 interim fee to get our program up and running. Simply, it is  
15 not as easy to compare and talk about how bad California air  
16 is versus Pennsylvania air in determining whether we should  
17 adopt the California CARB or not. I think the reason for  
18 that is because once we finish this inventory assessment we  
19 will have a much better idea as to where we have to go. And  
20 the problem I think is that it is not a straight trade-off.  
21 By that I mean we may find that additional control  
22 strategies such as Stage 2, the oxygenated fuel you referred  
23 to, inspection and maintenance issues we discussed here may  
24 permit us to achieve our objectives under the federal  
25 statute.

1                   However, I think there is also the possibility  
2 that when we are finished all of that, we will still have to  
3 attain additional reductions in ozone. And there are only,  
4 that I am aware of, only two ways to do that. Either you do  
5 that through your mobile sources or your stationary sources.

6                   On the mobile source issue what we have seen I  
7 think is that the improvements that have been made to the  
8 tail pipe emission side, to the overall quality of air, have  
9 been eroded substantially by the number of vehicles miles  
10 traveled. And where the California program permits, where it  
11 takes into consideration planning on the out years that you  
12 mentioned is that even if you assume one would have more  
13 vehicle miles traveled, you will still get a net gain in terms  
14 of improvements of air quality for VOC and NOX if you  
15 implement the California air program.

16                   The problem here in the state of Pennsylvania  
17 is such that if we implement whatever controls we actually  
18 do and we are not going to achieve the 15 percent reductions  
19 in the statute, we may have to look somewhere else. That  
20 somewhere else, that somewhere else, as you are aware, is  
21 stationary sources. And certainly someone who represents a  
22 refinery, you know that in many cases it seems to be an easier  
23 thing politically to do just to say, well, let the refineries  
24 take care of the additional reductions of VOCs and NOx like  
25 the chemical plants, whatever.

1                   So, I think that is the difficulty that some of  
2 us are wrestling with here in the legislature as to whether we  
3 go with California emission control. What would probably be  
4 more helpful than a simple assessment of the relative  
5 comparison in air quality would be an evaluation as to what  
6 reductions you get for VOCs and NOX in the California  
7 program versus the federal standards. Because obviously, the  
8 federal statute doesn't permit a third car. And that would be  
9 helpful to us to be able to take a look at those kinds of  
10 numbers. And then we could weigh that and try to get the cost  
11 of achieving those numbers, some of which you have obviously  
12 brought to our attention today.

13                   I guess that is more of a speech than a  
14 question. If you want to answer, go ahead.

15                   A     I guess a comment, there may be some  
16 information, I would have to go back and look, in terms of  
17 California, the difference between the federal program and the  
18 state program. I don't have that at my fingertips, but I can  
19 see what I can do to gather that. Your comments are well  
20 taken. It is hard to know how many or which strategies you  
21 have to adopt until you get your inventory organized. The  
22 whole Ozone Transport Commission looks at your ozone  
23 transport problem. And I guess that is really the first step.  
24 You know, you start with the least costly control strategies  
25 and you work your way up the list and you go as far as you

1 have to go to get what you need. I guess what I am  
2 suggesting is you need to have an orderly rational process to  
3 do that. Ultimately, that may lead you to some very extreme  
4 kind of controls. That may be what you choose to have to do,  
5 but you need to make sure you have gone through the process of  
6 identifying what are you really getting for what you want to  
7 do. That is all I am suggesting.

8 Q This is one last question, in the out years of  
9 the California Low Emission Vehicle Program, how many vehicles  
10 in the state of California are proposed to be nongasoline  
11 powered?

12 A That is a darn good question. ARB has had  
13 some fairly optimistic forecasts about that and they talked  
14 on the order of one to two million vehicles.

15 Q And how many vehicles are there now?

16 A 20 some million probably. It is really up to  
17 the marketplace to determine that and the real question would  
18 be how aggressively would the motor vehicle manufacturers  
19 want to promote alternative fuel vehicles and how  
20 comfortable would they feel with those versus gasoline based  
21 technologies. What they have tried to do is create a system  
22 where either type could basically come into the market.  
23 Really, they are leaving it up to the market forces to  
24 determine what vehicles ultimately will be sold to meet the  
25 same standards.

1 REPRESENTATIVE HAYDEN: Thank you.

2 CHAIRMAN MCCALL: Any questions?

3 (No response.)

4 BY CHAIRMAN MCCALL:

5 Q Mike, can you speak to the inspection program  
6 that they currently have in California?

7 A Briefly, California has a decentralized  
8 inspection program. I don't have any hard numbers on the  
9 benefits of that program. I can speak from some personal  
10 experience. The cost of an inspection in California runs  
11 around \$35 on the average based on some of the data that I  
12 have seen. I have been a little suspicious because many of  
13 the people that run the program say if you don't pass, you  
14 don't pay, which may suggest an inherent conflict. I don't  
15 know. But nonetheless I think California is in the process of  
16 reexamining their whole program right now. They have an  
17 advisory commission that is made up of the air pollution  
18 control districts in California along with the ARB. I think  
19 even EPA participates. They have been examining how the  
20 program works, how it may be changed to improve it. And, of  
21 course, they are very interested in EPA's guidance because  
22 that ultimately will set some performance requirements that  
23 they are going to have to be able to deal with.

24 Q Is it statewide testing?

25 A I believe by now it is pretty much statewide.

1 Q What kind of equipment do they use to conduct  
2 the tests?

3 A It is basically a nonloaded mode test. They  
4 don't use dynamometers, but they do have some fairly  
5 sophisticated electronic equipment. They look at the carbon  
6 monoxide and hydrocarbon emissions at idle and believe at  
7 2500 RPMs. And it is all, it has been computerized. All this  
8 data is fed into the Bureau of Automobile Repair and tracked.  
9 It is tied in with the vehicle registration. So, if you  
10 don't pass, you don't get your vehicle registered. I believe  
11 it is biannual.

12 Q Is there an amount of money that one would have  
13 to spend? Is it capped to come into compliance?

14 A The current program has a variable cap  
15 depending on the age of the vehicle. The older vehicles, I  
16 believe the maximum, I am talking about vehicles like  
17 pre-'75, I believe around \$50 and that goes up to I believe  
18 in the neighborhood of \$300 for the later model vehicles.  
19 So, it depends on the age of the car.

20 Q- If you fail and you have to go get your car  
21 retested is there a charge for that retest?

22 A I believe there is.

23 CHAIRMAN MCCALL: Thank you, Mike.

24 MR. REDEMER: Thank you.

25 CHAIRMAN MCCALL: We will now have Richard

1 Gmerek and Elaine Farrell from the Pennsylvania AAA  
2 Federation. Would you please identify yourselves?

3 MS. FARRELL: I am Elaine Farrell, Executive  
4 Director of AAA.

5 MR. GMEREK: Dick Gmerek, I represent the  
6 Federation in Harrisburg.

7 MR. WEBER: I am Jack Weber. I represent AAA  
8 Mid-Atlantic here in Philadelphia.

9 MR. KISSINGER: And I am Garvin Kissinger of  
10 AAA Mid-Atlantic.

11 MR. GMEREK: Good morning. As most of you  
12 know, my name is Dick Gmerek from the law firm of Tucker  
13 Arensberg in Harrisburg. I am here to testify on behalf of the  
14 Pennsylvania AAA Federation. It is a Federation consisting of  
15 29 various AAA clubs across Pennsylvania. I want to thank  
16 you for giving us the opportunity to testify. We, on behalf  
17 of the Federation, Elaine and I will talk generally about the  
18 Clean Air Act and how it affects the AAA clubs across the  
19 state. And Mr. Weber will discuss after us the effect upon  
20 the Mid-Atlantic Auto Club and the Keystone Club in the  
21 general Philadelphia area.

22 At the outset we want you to realize we are  
23 not experts on the Clean Air Act and how that will be  
24 implemented in Pennsylvania. But through our national AAA we  
25 do have some information that we think we can pass on to you

1 to inform, where we can, and to raise questions where we are  
2 unsure. Our concern always is in Pennsylvania the cost to and  
3 the safety of the motoring public whenever anything is  
4 debated by the General Assembly. We would ask that you keep  
5 that in mind as we testify.

6           Regarding the oxygenated gas with a deadline of  
7 November 1, 1992, we have been informed that this will apply  
8 only to the Philadelphia and Pittsburgh areas; however, we are  
9 unsure whether it applies to Pittsburgh or not. Our concern  
10 though is that oxygenated gas is only part of the real  
11 solution to the problem. Pennsylvania needs to enact an  
12 active statewide gas quality inspection program, which other  
13 states have, and they utilize the American Society for  
14 Testing and Materials. I am told that Pennsylvania is one of  
15 six states that does not have such a program. Those states  
16 are identified in the testimony as Ohio, New Hampshire, New  
17 York, West Virginia and Oregon. It seems to us that if you  
18 are going to have oxygenated gas we ought to also, prior to  
19 that, have in place some type of gas law inspection program.

20           With regard to the State Implementation Plan  
21 required by Pennsylvania this November, it is our  
22 understanding again that an initial plan is due this year, the  
23 final plan due to EPA by November 15th of the next year. That  
24 leads us to urge caution in developing this year's SIP. More  
25 importantly, we think it is important that you carefully



1 decide the manner in which the finalization of the SIP be  
2 done for 1993. While we say this, we agree with Secretary  
3 Yerusalim and others who brought up the idea of potential  
4 lawsuits and loss of federal highway monies if we don't act  
5 within the requirements of EPA. Furthermore, the welfare of  
6 our environment requires action. For that reason, we applaud  
7 this Committee for the work that it is doing. But we would,  
8 again, caution you in particular, and the General Assembly, in  
9 general, to truly implement a plan which will work for  
10 Pennsylvania and take into consideration the recommendations  
11 we will make at the end of this testimony regarding our ideas  
12 of how the plans can be finalized for 1993. In the SIP we  
13 believe there are several issues which should be addressed.

14 First of all is the emissions program, the  
15 I/M, the Inspection/Maintenance Program. Our most important  
16 idea regarding this issue is it should be an effective  
17 program that is convenient to the motoring public.

18 It should be on the same schedule as the  
19 vehicle registration and operated in the same manner but be on  
20 a biannual basis. We are concerned that if one fails the  
21 test, they may not be able to register their car. And  
22 different to the situation we heard about in California, if  
23 you fail the safety inspection, you can still register your  
24 car. You just can't drive it. So, we believe it should be the  
25 same way with the emissions program for ease of understanding.

1                   The distance a motorist has to drive is  
2 important in consideration of inspection.

3                   The test should be able to be completed in a  
4 short amount of time. We have said ten or so minutes but we  
5 say short amount of time to not unduly burden the motorist.

6                   There should be enough lanes so that the lines  
7 will be short.

8                   There should be certification of those who  
9 have to do the repairs, if needed, when one fails. There needs  
10 to be adequately trained mechanics.

11                   There needs to be guidance given to the person  
12 who will be doing the repairs. It is our understanding that  
13 the EPA's guidelines and regulations still have yet to be  
14 issued and mandated that the testing center cannot do the  
15 repairs. If that is the case, how will the repair station  
16 know what repairs to do. Will there be some type of  
17 printouts given? Will there be an indefinite process where  
18 you have inspection, repairs, inspection, repairs? And as  
19 you, Representative McCall, asked, will there be a fee  
20 every time they have to go back and forth in this process.

21                   With regard to the debate about centralized  
22 and decentralized inspections, we reserve our comments at  
23 this time regarding our position, but we do have many  
24 suggestions and questions.

25                   Is there a need for all 11 counties to

1 establish one program? Can the Pittsburgh area or other  
2 areas that are going to be required to do the program have a  
3 lesser inspection?

4 If in fact the testing centers cannot also do  
5 the repairs, will the repair garages have to purchase  
6 expensive dynamometer machines, since one cannot repair what  
7 one cannot see?

8 We are concerned also about the cost of the  
9 dynamometers, as opposed to other existing machinery which  
10 could be used. Whether a centralized or decentralized  
11 system is approved, if all repair shops are required to have  
12 dynamometers, it obviously would be very costly.

13 For your information, and perhaps you know this,  
14 Ohio, Kentucky and New York are leaning toward a split state  
15 status, which consists of part centralized and part  
16 decentralized. It is our understanding and belief that  
17 perhaps these states are doing so so they can collect enough  
18 data to compare the pass/fail rate and the cost of repair  
19 differential between the centralized and decentralized areas  
20 of the state. We raise this consideration for this Committee.

21 We also want to advise the Committee that the  
22 failure rates are set in advance by the EPA. For example, the  
23 EPA proposes that 35 percent of all pre-1981 automobiles must  
24 fail on inspection, which is up from the previous failure rate  
25 required by the EPA of ten percent.

1                   With regard to the California LEV standards,  
2 we agree with a recent article in the Philadelphia Inquirer  
3 stating that half of the emissions problem from automobiles  
4 is with ten percent of the vehicles -- those which are older  
5 do not have up-to-date emissions systems. Since California  
6 standards would apply to all vehicles sold after 1996, this  
7 would have no effect on these older vehicles which continue to  
8 provide half of the problem. Further, the automakers claim  
9 that these standards could raise the price of a new car by as  
10 much as \$1000. With the newly recently announced presidential  
11 Cash-for-Clunker Program, whereby up to \$1000 would be offered  
12 to the older vehicle owners to get them off the road, it  
13 doesn't seem a great incentive to entice people to purchase  
14 a new car when you tell them that you'll give them a thousand  
15 dollars or less for their old car.

16                   We are not here to oppose the standards, the  
17 California standards. But we are here to question, as we  
18 stated earlier, and where appropriate, to inform. So, for  
19 that purpose we want to advise this Committee that Virginia  
20 recently rejected the California standards and that  
21 Massachusetts has requested a commission to investigate a  
22 statewide plan for cost-effective, improved regional air  
23 quality targets at the actual sources of pollution.  
24 Additionally, New York's plan, which did adopt the California  
25 standards, is currently under challenge in court by the auto

1 manufacturers.

2 One concept we find interesting is the fee-bate  
3 program whereby if you bought a "clean" vehicle, you would get  
4 a rebate and if you bought an older, "dirty" vehicle, you  
5 would have to pay a surcharge. This has not been backed by  
6 the AAA members. We just raise it for your consideration.

7 Reformulated gas, it is our understanding that  
8 these provisions would apply only to Philadelphia, but it  
9 could be applied to the entire state. If it applies just to  
10 Philadelphia, then we have a concern that if you had a border  
11 whereby reformulated gas were sold to the Philadelphia  
12 general area, that one could merely cross that border and take  
13 other type of gasoline and come back into the city, it would  
14 really have no effect on the problem. However, if it is to be  
15 applied on a statewide basis, then we are concerned about the  
16 following problems:

17 (1) It could lead initially to a higher price  
18 of gasoline.

19 (2) There would obviously be enforcement  
20 problems, plus likely to see a problem with gas pump stickers  
21 indicating octane levels.

22 And (3), that it could provide a problem to  
23 Pennsylvania because of our cold weather. There might be  
24 driveability problems if reformulated gas were used in this  
25 state.

1                   With regard to the next issue of alternate  
2 fuels, our primary concern is that whatever taxes apply to  
3 gasoline should apply to alternate fuels. As you know, the  
4 gasoline tax money goes directly into the Motor License Fund.  
5 Our constitution mandates that that is for roadway and bridge  
6 repairs and we urge the same provision apply to the alternate  
7 fuels.

8                   Everything we have discussed, the higher price  
9 of gasoline, the potentially higher cost for vehicle  
10 emissions and the issues we have raised. We support the  
11 concept of the motorists' responsibility to assist  
12 Pennsylvania, not only in its SIP, but generally in just  
13 cleaning up the environment. To that extent, we publicly  
14 offer today to provide any assistance we can to help educate  
15 the motorists of Pennsylvania and help ease any confusion that  
16 may be caused by the implementation of our SIP. However, the  
17 Federation cannot and will not support any increase in other  
18 fees to the motorists, including vehicle registration fees,  
19 in an effort to help pay for pollutants provided by  
20 stationary sources. We believe we are advocating a  
21 responsible position regarding the motorists and trust that  
22 the stationary source polluters will do likewise. We hope  
23 this Committee and the Commonwealth will respect our position  
24 on this matter. It would not be fair to the motorists and it  
25 would be violative of the Pennsylvania constitution to

1 utilize the vehicle registration fees for anything other than  
2 the Motor License Fund.

3 There has been so much information and  
4 misinformation regarding the Clean Air Act and its  
5 implementation in Pennsylvania. We read it in the papers  
6 every day. Whether it is administration sources, legislative  
7 sources, newspapers, whatever, it is what is required? We  
8 have noted that the initial plan is due this year and the  
9 final plan is due next year. It raises some interesting  
10 questions.

11 Will EPA plan to extend those deadlines as they  
12 have in the past in terms of their requirements about their  
13 own regulations? We have no guidelines that were required for  
14 November of '91 by EPA regulations. They have already put  
15 that day off. They have shown a propensity to do that.

16 Even if these deadlines are extended when does  
17 the plan actually have to be implemented? When does  
18 something have to be done?

19 Does the plan have to be implemented  
20 immediately or are there different types that will be  
21 implemented for attainment and nonattainment areas?

22 Is there a requirement that every part of the  
23 plan be implemented and all at the same time?

24 We believe that since the Commonwealth has  
25 until November of next year to establish a final State

1 Implementation Plan, it is essential for the citizens of  
2 Pennsylvania to become educated on these matters. Therefore,  
3 the Pennsylvania AAA Federation respectfully and earnestly  
4 requests that a study commission be developed to determine the  
5 best manner in which our SIP can be finalized by November  
6 1993. And I believe you heard testimony that in California  
7 they have at least one or maybe two or three commissions I  
8 guess to operate separate from the General Assembly. This  
9 does not detract from the fine work this Committee is doing.  
10 Rather in our minds it should work in concert with the  
11 initial plan that you are working so earnestly to develop  
12 right now. Recently, a study commission in New Jersey issued  
13 its report. It is a worthwhile document, which we have and I  
14 can share with the Committee today. Not only is it thorough,  
15 but it is representative of ideas merged from all groups and  
16 all positions -- environmental groups, oil companies, AAA  
17 clubs, legislators, consumer activists, administration  
18 officials, et cetera. We can share additional information  
19 regarding this commission with you if desired.

20 Obviously, in no way are we suggesting this  
21 commission to delay. We are well aware that when one suggests  
22 a study commission that it meets with high eyebrows and sighs  
23 of "Oh, not that again". Nor are we suggesting to put the  
24 issue on the back burner. Rather, we suggest this so that it  
25 can work in tandem with the efforts being put forth by you and



1 by the General Assembly. The information and misinformation  
2 mandates that issues involving the Clean Air Act, as it  
3 relates to Pennsylvania, be studied very carefully -- much the  
4 way this Committee has operated. But only through a  
5 concerted effort involving all parties who are affected in  
6 "one room" can there be a rational solution reached. And we  
7 raise this as we have with you, Representative McCall, in the  
8 past where we are on the side of the motorists' responsibility  
9 and in another arena there is discussion of motor vehicle  
10 registration fees being utilized to pay for another problem  
11 and we are having trouble connecting it and resolving the  
12 problem in one arena and we've got to run to another arena and  
13 explain that again.

14 We need to develop a plan that not only meets  
15 the required deadlines of EPA but also provides what we  
16 sincerely want, all of us, good quality air and a safe  
17 environment for those who will come after we are gone. We  
18 also suggest that the study commission be deeply rooted in  
19 political logic, which I have not made a part of our  
20 testimony, but will explain. I might add that this is my  
21 position and mine alone. It appears to me that you have  
22 until next November to do something to finalize the plan. We  
23 all know that there are 30 new members of the legislature.  
24 As I look at it, we probably have ten or 20 more, which  
25 obviously, we all hope that doesn't happen. We could have a

1 20 percent change in the General Assembly. Obviously, you  
2 always run the risk every election year that leadership will  
3 change in one or both houses.

4 With that it would seem to us if your group,  
5 your Committee, would develop an initial plan that a study  
6 commission could be started immediately requiring that they  
7 put their report out by the end of the year. That the initial  
8 plan you all develop could then be used as part of their  
9 investigation, because anything they do in the initial plan  
10 could be changed next year in the final plan with the new  
11 makeup of the legislature, perhaps new leadership in one or  
12 both of the chambers, and hopefully not for some, hopefully  
13 it is not for others, you run the risk of starting this  
14 process all over again next year most likely in February or  
15 March which doesn't give a whole lot of time to finalize the  
16 initial plan.

17 So, it seems to us while you are doing the  
18 initial plan, this study commission could be reviewing the  
19 same issues, then look at your initial plan and make  
20 recommendations whether any of those initial plans ought to be  
21 changed. Then you would have to document by February or March  
22 next year which to look at to compare their initial plan and  
23 their recommendations.

24 Thank you for the opportunity to present this  
25 testimony. As we stated at the outset, we are not experts on

1 the Clean Air Act but we hope that we have provided some  
2 information to you and raised some questions and points which  
3 you will consider in developing the State Implementation Plan.

4 Thank you.

5 CHAIRMAN MCCALL: Do you want to go right into  
6 your testimony?

7 MR. WEBER: That is fine with me.

8 CHAIRMAN MCCALL: Do you want to identify  
9 yourself for the record?

10 MR. WEBER: Thank you, Mr. Chairman and members  
11 of the Subcommittee. I am Jack Weber. I am the Senior Vice  
12 President for AAA Mid-Atlantic known to Philadelphians as  
13 Keystone Automobile Club. We are the regional AAA affiliate  
14 with approximately one-half million members in the five county  
15 Delaware Valley region.

16 AAA Mid-Atlantic is very supportive of efforts  
17 to improve air quality. We are aware that the 1990 Clean Air  
18 Act requires certain changes in the air quality controls  
19 which will impact Pennsylvania and specifically the  
20 southeastern region. However, as has been pointed out by  
21 prior testifiers, to date, EPA has not issued final regulations  
22 implementing the Clean Air Act. We believe that it would be  
23 premature to proceed with final planning until the EPA  
24 regulations are published.

25 In the interim we strongly recommend that a

1 Blue Ribbon Commission be appointed to study, the issues  
2 related to the implementation of the Clean Air Act in the  
3 Commonwealth of Pennsylvania. I also strongly urge you to  
4 include AAA Mid-Atlantic as a member of the Commission and I  
5 urge you for this reason.

6 AAA Mid-Atlantic established an automotive  
7 diagnostic facility in 1980 in Broomall, Pennsylvania which  
8 has tested approximately 80,000 in-use motor vehicles since  
9 its opening. Part of the testing conducted is quite similar  
10 to what we believe is the "high tech" emissions test that is  
11 proposed by the EPA. We believe that we can add enormously  
12 to the considerations of the Commission because of our real  
13 world experiences.

14 One issue that needs to be addressed by the  
15 Commission is the question of centralized versus  
16 decentralized inspections. In making the determination, it is  
17 incumbent upon us to be sure that the inspection is  
18 accomplished with as little inconvenience to the motorist as  
19 possible. This would include having the inspection and  
20 repair, if needed, done at the same time and place, similar to  
21 our current safety inspection and emission inspection program.  
22 The key to the success of the program in place today is proper  
23 training, certification and active monitoring.

24 We do believe that any enhanced I/M program  
25 that would be forthcoming for Pennsylvania prior to the

1 publication of federal regulations by the EPA would be  
2 premature. However, there are things that can be done in the  
3 interim. For example, the use of reformulated fuels will  
4 reduce volatile organic compounds and toxic pollutants.  
5 Another significant action that Pennsylvania should take is to  
6 implement a gasoline inspection program to guarantee the  
7 quality of gasoline is in compliance with the standards of  
8 ASTM (American Society for Testing and Materials.) Presently  
9 Pennsylvania is one of the six states, as was previously  
10 pointed out, lacking a gasoline quality inspection program.  
11 The motorist should be assured that the gasoline he buys  
12 complies with the American Society for Testing and Materials  
13 Standard, which is the refinery standard.

14 We would also recommend that the House and  
15 Senate act on Senate Bill 1470 which would provide grants for  
16 retrofitting certain vehicles for alternative fuels. The  
17 alternative fuels provided for in this bill would result in  
18 lower emissions of oxides of nitrogen, reduce volatile  
19 organic compounds, reduce carbon monoxide and particulates.  
20 The fuels would include compressed natural gas, liquefied  
21 natural gas, liquid propane gas, alcohols and electricity.  
22 We believe if such legislation is enacted fleet operators  
23 would have an incentive to retrofit for alternative fuels.  
24 We, at AAA Mid-Atlantic at the moment are committed to such a  
25 program and are in the process of retrofitting, at our

1 expense, our fleet of road patrol emergency service vehicles  
2 to compressed natural gas (CNG). We believe this single step  
3 taken by companies will go a long way to help improve the air  
4 quality in the five county region.

5 Another strategy that can be taken to improve  
6 air quality is traffic signal coordination. Studies have  
7 shown that this single action will improve air quality. The  
8 rationale is very simple. A moving vehicle is more efficient  
9 than a stop-and-go vehicle. With the amount of commuter  
10 traffic into the Philadelphia area, traffic signal  
11 coordination is essential.

12 Along those lines, we would like to take this  
13 opportunity to compliment PennDOT for their perseverance in  
14 completing the Blue Route. The Blue Route will, in our  
15 opinion, continue to assist in improving air quality in  
16 Philadelphia by traffic bypassing the downtown Philadelphia  
17 area that is connecting from the Turnpike to I-95 and points  
18 south. Also, we are aware of the fact that PennDOT has  
19 included in its future plans the modernization of I-95 in the  
20 Philadelphia area. The modernization would reduce congestion  
21 and bring I-95 into the category of a high tech highway.

22 We would also urge the Delaware Port Authority  
23 to proceed as quickly as possible in the implementation of  
24 one-way toll collecting on the Port Authority bridges.  
25 One-way toll collecting will significantly improve the

1 movement of traffic and reduce tail pipe emissions caused by  
2 a stop-and-go vehicle.

3 In our invitation to testify before this  
4 Committee, one of the issues we were requested to comment on  
5 was the proposal of a one dollar surcharge on motor vehicles  
6 to fund DER programs to implement the Clean Air Act. AAA  
7 Mid-Atlantic opposes such a move. I would like to emphasize,  
8 we are not in opposition to improving the air quality. As a  
9 matter of fact we support all efforts to improve the air  
10 quality; however, the actions we have commented on will, in  
11 themselves, add additional costs to the motorists (i.e., the  
12 enhanced I/M inspection program, also reformulated fuels will  
13 increase costs by five to ten cents per gallon). It is our  
14 opinion that if there are stationary sources that are  
15 polluting the air and they must be controlled, then the cost  
16 should be borne by the industry generating the pollutant.  
17 We believe the motorist is paying his fair share to contribute  
18 to clean air.

19 Thank you for the opportunity to provide these  
20 comments. I will be happy to answer any questions the  
21 Committee may have.

22 CHAIRMAN MCCALL: Any questions?

23 (No response.)

24 CHAIRMAN MCCALL: I guess maybe just a  
25 comment on my part is that most of the questions and concerns

1 you raised reflect the same questions and concerns that we  
2 have on this Committee. I think the most frustrating thing we  
3 have been confronted with is the lack of EPA action on the  
4 issue of regulations to give us some guidance and some  
5 guidelines. We can look at the legislation passed by the  
6 Congress in the Clean Air Act in 1990, but until EPA gives us  
7 some direction, we have a lot of the same questions that you  
8 have asked and we will certainly keep those in mind as we  
9 formulate and put together our legislative package. Thank you  
10 for your testimony.

11 We will now have Morton Getman, Executive  
12 Director, Society of Automotive Vehicle Emissions Reduction,  
13 Inc.

14 MR. GETMAN: Chairman McCall, Committee members  
15 and staff, on behalf of SAVER and its members, we wish to  
16 thank you for your invitation to participate in this hearing  
17 and for the courtesies extended us in earlier meetings. I am  
18 accompanied by Jeffery Derks, who is employed as our Director  
19 of Emissions Analyzer Programs for the Allen Group, which is  
20 one of our member companies and is here specifically to assist  
21 in any technical issues that may arise. Your interest in the  
22 future of the Pennsylvania auto emissions inspection program,  
23 under the Clean Air Act Amendments is of great interest to us,  
24 of course to Pennsylvania motorists and to businesses and  
25 workers that rely on auto emissions inspection and repairs



1 associated with it.

2 As you may know, SAVER is the trade  
3 association of the decentralized I/M manufacturers and  
4 supplier support companies. It was organized in early 1991  
5 to face the challenge of the EPA favoring centralized I/M  
6 which would seriously and negatively impact SAVER's members.

7 In a recent communication to Chairman McCall,  
8 on behalf of SAVER, I complimented your Committee for its  
9 quickly zeroing in on the urgent question of how to best  
10 achieve sufficient EPA credits, through your I/M program  
11 approach. I emphasized the deep bias which EPA has against  
12 decentralized I/M both in regard to its insistence on IM 240  
13 (transient loaded mode test) and in the disproportionate  
14 credits it provides to centralized I/M, over decentralized --  
15 as reflected in its draft guidance and in EPA's unending  
16 drumbeat around the United States, as it tries to influence --  
17 and indeed -- terrorize state program managers.

18 You are faced with the unenviable task of being  
19 told, unofficially, that the deadlines in the CAAA, beginning  
20 with November 1992 for your mobile sources SIP, are  
21 inexorable, unchangeable and enforceable. EPA tells you,  
22 however privately, that they will impose sanctions and that,  
23 in addition, citizen suits will lead to the same result.

24 Therefore, they argue, you must adopt a  
25 centralized, IM 240 system in order to comply with the

1 statutory requirements.

2 EPA appears to conveniently forget that it has  
3 failed to meet the November 1991 deadline guidance. That,  
4 despite the fact that they conceded in April 1991 that  
5 guidance was inappropriate and that a rulemaking would be  
6 necessary. In some circles, we are now told that EPA will  
7 rely on the convoluted reasoning that they can seek to impose  
8 statutory deadlines -- including sanctions -- because the  
9 statute simply speaks to "guidance" -- and we suppose that  
10 their sub rosa pressure around the United States may be  
11 claimed as the equivalent of "guidance".

12 Nevertheless, the statutory deadlines are real,  
13 EPA might indeed attempt to enforce them and citizen suits for  
14 enforcement of the timetables in the statute are a distinct  
15 possibility. Sixty day notices of suit against EPA -- for  
16 failure to meet statutory deadlines -- abound throughout the  
17 United States. One or more parties are almost certain to  
18 bring suit and it has a sobering effect upon SAVER members as  
19 well it does upon your deliberative body.

20 Having placed that issue of statutory deadlines  
21 before you, I want to assure you that I will have some comments  
22 which I believe go to the heart of that issue. First, however,  
23 let me take you to the substantive issues in this case.

24 Inherent in the entire EPA modeling, testing,  
25 guidance and proposed rulemaking exercise are the EPA claims

1 that IM 240 has unique test capabilities and that  
2 centralized testing is inherently more accurate and honest  
3 than decentralized. They stress, in particular, what they  
4 claim to be an inherent conflict between test and repair and  
5 they insist upon the separation of the two.

6 First, IM 240. EPA has had reason to believe  
7 that the purge function could be tested in a far less costly  
8 and simple way than by transient loaded mode, a la IM 240.  
9 So-called steady state loaded mode testing is the answer.  
10 Steady state also involves a dynamometer but a steady state  
11 loaded mode test translates into perhaps \$15,000 dynamometer  
12 cost rather than \$150,000 IM 240 equipment cost. Also, as  
13 you know, centralized test facilities don't exist in  
14 Pennsylvania and would have to be built so that each IM 240  
15 lane might cost \$300,000.

16 Under the CAAA, EPA knew that it was compelled  
17 to apply flexibility and lowest cost approaches -- with least  
18 inconvenience to motorists, in order to achieve their  
19 statutory clean air objectives. Therefore, if they had any  
20 less costly alternatives that were either obvious or  
21 reasonably possible, instead of IM 240, they were obliged to  
22 test them.

23 They knew all about steady state loaded mode  
24 because a very fine lab in California, Sierra Research, had  
25 run December 1988 steady state loaded mode tests that had

1 exposed their apparent capability of handling the purge  
2 function and other functions that were claimed to be unique  
3 for IM 240 -- all at relatively low cost. Rather than test  
4 steady state loaded mode, using the Sierra model, EPA ignored  
5 it -- despite its wide publication and their clear knowledge  
6 of it -- apparently making "engineering judgments" that it  
7 simply wouldn't work.

8           SAVER's self-interest and our secure belief  
9 that steady state loaded mode testing could save freedom of  
10 choice for states, as between centralized and decentralized  
11 I/M -- and save SAVER's businesses -- retained Radian  
12 Corporation -- an outstanding consulting firm and lab in  
13 Austin, Texas. Radian's most important work under that  
14 retainer, thus far, was a report dated December 31, 1991 which  
15 we have shared with your office. We can send additional  
16 copies to whomever you designate. That report models the  
17 Sierra steady state loaded mode tests and concludes that they  
18 are very nearly as good as anything claimed by EPA for IM 240.  
19 EPA, in oral responses only -- during a meeting at the  
20 Houston-Galveston Area Council on January 27' -- broadly  
21 attacked the conclusions of the Radian report. They have  
22 never published that attack.

23           Nevertheless, we have enclosed for you a  
24 February 27, 1992 paper by Radian Corporation, refuting the  
25 positions taken by EPA in that Texas meeting in January.

1                   Much more to the point, in recent correspondence  
2 with Texas' United States Senator Gramm, EPA admitted that  
3 they agreed with the Radian report -- but that they were  
4 awaiting testing of steady state loaded mode -- and had  
5 received no data in regard to such testing.

6                   While SAVER has excoriated EPA's purposeful  
7 avoidance of modeling and testing steady state loaded mode --  
8 an absolute statutory requirement as they seek equally  
9 effective decentralized alternatives to centralized I/M -- we  
10 also recognize that we were being put "up against the wall" by  
11 EPA. In that connection, we were fortunate to develop a  
12 relationship with ARCO, Atlantic. That company has about 130  
13 very specialized I/M stations in California that are called  
14 SMOGPRO shops. They are deeply invested in decentralized I/M  
15 and are a top-notch company which has the resource, expertise  
16 and economic incentive to test steady state loaded mode.

17                   In that connection, your packet includes a  
18 March 11, 1992 letter from ARCO Products Company to me,  
19 outlining the testing which is now underway at Southwest Labs  
20 in San Antonio, Texas using California codes. As recently as  
21 yesterday I talked with ARCO officials and learned that the  
22 testing is half complete and should be entirely completed by  
23 Tuesday of next week. We anticipate that a first analysis of  
24 the test data will be ready before April 10 and a final report  
25 will be on file before May 10. Essentially, the outline

1 schedule in the enclosure we have given you today remains  
2 totally on target.

3 I would also call your attention to the  
4 enclosed March 6, 1992 letter from the Chief Executive  
5 Officer of the California Air Resources Board, addressed to  
6 me, in which he applauds the "--better understanding of our  
7 mutual areas of interest" and outlines his intention to  
8 "--explore alternatives to the EPA proposed I/M program."  
9 California plans to compare IM 240 to steady state loaded mode  
10 options -- and will be doing that in its large and unique  
11 in-use vehicle study over the next year. They are deeply  
12 skeptical of EPA's romance with IM 240.

13 The Canadian government also has engaged in  
14 very recent steady state loaded mode testing -- which we are  
15 evaluating -- and we will share those results with you as  
16 soon as we know of them.

17 The Canadian government openly sent us all  
18 their data.

19 The second issue of great importance,  
20 regarding EPA's inherent bias against decentralized I/M  
21 arises because they simply have never liked decentralized I/M,  
22 have found it to be a complicated matter and have never  
23 effectively imposed standards on any state involved in  
24 decentralized I/M. We would argue, based on hard experience,  
25 that Pennsylvania's decentralized I/M program -- which has

1 faults -- would have been all the better if EPA had zeroed in  
2 on those faults and had mandated specific, directed  
3 improvements. In the absence of those improvements, EPA  
4 should first have threatened sanctions and/or the lifting of  
5 the state SIP -- or otherwise made it clear just what they  
6 expected of decentralized I/M and how to bring it about.

7 Instead, in their draft guidance and elsewhere,  
8 they have modeled BAR80 and BAR84 decentralized I/M programs,  
9 charged them with inefficiency, inaccuracy, poor tampering  
10 inspections -- matching them up against their mythical IM 240  
11 which is not in commercial operation anywhere.

12 A decentralized, enhanced BAR90 I/M program  
13 which is properly enforced and administered can be fully as  
14 effective as a theoretical, excellent centralized I/M program.  
15 The cost to the state of Pennsylvania, per car, would be  
16 somewhat higher for administration and enforcement, than  
17 centralized -- but the difference should only be marginal --  
18 perhaps \$2, or \$3 per test.

19 That is more than offset by protecting  
20 motorists from being ping-ponged back and forth, massive  
21 inconvenience and associated costs -- and the economic  
22 consequences of killing off thousands of jobs and hundreds or  
23 more businesses, which now benefit from and in the future could  
24 benefit from effective, enhanced decentralized I/M.

25 We met with EPA at its mobile sources lab in

1 Ann Arbor, Michigan in the summer of 1991 and presented an  
2 outline of an enhanced, decentralized I/M program. They  
3 rejected it as bare bones and we came back in October with a  
4 complete program -- replete with every required detail. EPA  
5 has forcefully refused to test that program. In fact, in a  
6 January 21, 1992 meeting we had with that same office, they  
7 mocked us -- asking "what would you have had us do? Set up a  
8 decentralized test program in Rhode Island?". Clearly, they  
9 were obliged to do something of that nature and should have  
10 taken the lead more than a year ago. Here again, EPA has  
11 purposely created an inaccurate model and has insisted on  
12 providing disproportionate credit for centralized I/M and  
13 speaking for SAVER we will not let it stand.

14 You should also know that EPA's Policy Office  
15 commissioned a report by independent economists, initially  
16 completed in November 1991 and then hidden by EPA because the  
17 results were so startling, we believe, indicating massive  
18 economic damage to the decentralized I/M industry in the event  
19 centralized was imposed. Instead, in February 1992, they  
20 issued a revised report -- and even that Milquetoast document  
21 suggested as much as a \$300 million loss in jobs and business  
22 in the event centralized I/M was mandated. They then cut that  
23 in half, postulating that there would be \$150 million more  
24 repairs with IM 240. If steady state loaded mode is the  
25 equivalent of IM 240, obviously repairs would be the same with



1 either approach.

2           There has been an almost complete failure on  
3 the part of the federal government, almost amounting to a  
4 cover-up by EPA, in evaluating the massive inconvenience cost  
5 of tens of millions of motorists nationwide if they are  
6 compelled to have their I/M inspection at a very limited  
7 number of widespread centralized facilities instead of the  
8 thousands of decentralized repair shops that would otherwise  
9 be available. While Radian's December 31, 1991 report makes  
10 a very conservative estimate of the inconvenience cost to  
11 motorists -- we have heard serious criticisms of those  
12 estimates, because they appear not to go nearly far enough.  
13 Time does not permit me to go into the hard copy of slides  
14 which are in your packet attached to the ARCO materials. They  
15 relate to a presentation made on February 26, 1992 at a panel  
16 discussion of I/M, sponsored by Resources for the Future.  
17 These materials reflect on inconvenience cost and lament the  
18 failure of government to quantify those very large costs that  
19 will be foisted upon millions of motorists.

20           It is our understanding that Resources for the  
21 Future is only weeks away from its final report, which may  
22 further illuminate that subject. SAVER will also press  
23 forward with additional information on the subject on its own.

24           Even the Resources for the Future work, thus  
25 far, in suggesting that there may be ways for centralized I/M

1 to become somewhat less inconvenient, points to the need --  
2 then -- for far more centralized facilities.

3 It is altogether unlikely that you in  
4 Pennsylvania, or other states, if compelled to mandate  
5 centralized I/M will be able to develop adequate centralized  
6 facilities. Land use questions, the economics of intense  
7 throughout that centralized contractors require and related  
8 issues make those two considerations -- motorist convenience  
9 and centralized contractor profit -- diametrically opposed.

10 Also, on the issue of EPA strongly suggesting  
11 that test and repair must be separated -- that will not hold  
12 up with modern, BAR90 decentralized I/M. The limited number  
13 of shops that either cannot do sufficient volume to justify  
14 equipment cost, may not have the skill level or desire to get  
15 into a more complex program, will not want to engage in the  
16 inspector and mechanic training that will be necessary -- and  
17 the even smaller number that simply are not honest -- in  
18 Pennsylvania and elsewhere those will fall away. Large  
19 numbers of service stations, garages and auto dealers will  
20 participate honestly in a decentralized I/M program. It is  
21 profitable, they need to do it from a competitive point of  
22 view to stay up with other stations and the net result will be  
23 cleaner cars, cleaner air and convenience for the public.

24 As a practical matter, in decentralized I/M,  
25 most motorists will make an appointment and leave the car for

1 its test, any repairs that might be necessary and other work  
2 that may be done routinely by the garage or service station  
3 (i.e., brake jobs, tune-ups, oil changes) whatever.

4 The converse, centralized, involves lamentable  
5 ping-ponging, enormous wait times, wasted fuel and a general  
6 disregard for the public. That also will necessarily lead to  
7 evasion on the part of many who simply will not want to submit  
8 to the program.

9 We could hardly suggest that you now develop a  
10 decentralized I/M program in the absence of EPA guidance or  
11 rulemaking. You are doing the responsible thing, however, in  
12 gathering information and trying to determine how to proceed  
13 at the appropriate time.

14 I want to briefly return to the original issue  
15 I raised -- that of EPA pressing Pennsylvania and other states  
16 to adopt centralized IM 240 programs now under the threat of  
17 statutory deadlines and sanctions.

18 I can assure you that we have been studying this  
19 subject in concert with qualified litigation counsel for  
20 months now. While no one can assure you that you will not  
21 face litigation and no one can flatly tell you the outcome of  
22 any such litigation -- some things are fairly clear.

23 For example, if anyone seeks after a 60 day  
24 notice to compel EPA to meet deadlines there is the potential  
25 for other parties to intervene in those proceedings. If that

1 intervention is successful the court then would, in the normal  
2 course of events, be negotiating timetables with all the  
3 parties. That would necessarily include the Commonwealth of  
4 Pennsylvania -- which could make a persuasive case that it  
5 could not responsibly adopt an IM 240, centralized program  
6 without the necessary guidance or rulemaking. The  
7 differences in approach are polar opposites (i.e.,  
8 decentralized, steady state loaded mode, BAR90,  
9 decentralized as against IM 240 centralized) and the public  
10 policy implications absolutely immense.

11           Clearly, SAVER and its member companies are  
12 deeply invested in this whole issue and should not be  
13 expected to readily stand aside, should there be litigation.

14           In that connection, I recall an EPA technical  
15 person from Ann Arbor who has had the lead from the Mobile  
16 Sources Office (Gene Tierney) speaking at a September 1991  
17 meeting of program managers in the Northeastern United States  
18 (NESCAUM). It was in Danbury, Connecticut and one of the  
19 managers asked him, in the relative privacy of that meeting,  
20 I guess there were 50 of us, whether EPA would seek to impose  
21 sanctions on statutory deadlines, even if it could not have  
22 its rulemaking done by the November 15, 1991 deadline for final  
23 guidance.

24           Tierney found that question almost laughable  
25 and answered (this is not a direct quote, but close enough)

1 that it would be absurd to expect that EPA would even try to  
2 do such a thing, much less expect to succeed. For a change,  
3 EPA was right on the mark in that comment.

4 In closing, we wish to thank the Committee for  
5 its indulgence and its wide latitude and to pledge SAVER's  
6 continued support for your efforts to gather facts and make  
7 solid judgments at the appropriate time regarding the future  
8 of your I/M program. We would urge that you consider a  
9 widespread geographical program, once you settle on an  
10 approach, as it ought to help you with cars that are outside  
11 the impacted areas but regularly travel within it and may  
12 obtain you further EPA credits.

13 If I can take another one minute before I  
14 close, we listened to the testimony of all the prior  
15 witnesses today and we found that extremely interesting. We  
16 thought that each had things to offer that were very  
17 important. But in particular, California has a structure  
18 with an I/M Review Committee. We are working very closely  
19 with them. We testified in California and I go out there  
20 every couple months. The I/M Review Committee is a  
21 legislative creature. The legislature in government created  
22 the I/M Review Committee. They are now looking at possible  
23 amendments to the law which was created and has a set of  
24 deadlines and has to make a number of reports. And their  
25 apparent current target would seem to be early 1993 for

1 action. So, they are studying, they are working, they are  
2 constantly asking us for information and others who have  
3 various points of view and it is a very, very intensive  
4 undertaking.

5 Also, the fee per car that the state gets in  
6 California, the state gets, for every inspection is very high.  
7 It is seven dollars. And if you do as they do in California,  
8 eight or nine million cars every year, because there is about  
9 18 million cars under the program now that have undergone  
10 inspection, they are taking in a lot of money. EPA would have  
11 to believe that the seven dollars per car goes for the I/M  
12 program. That is not true. We will give you as soon as we  
13 have it, a complete breakdown of what that money is used for.  
14 California has many, many enforcement programs in the  
15 Department of Consumer Affairs. When you hear BAR, BAR90,  
16 BAR84, BAR80, those are the Bureau of Automotive Repair which  
17 is the California BAR. No other state in the United States will  
18 certify a program before the BAR certifies a program. That is  
19 why we and you in Pennsylvania, all of the country, you have  
20 BAR this and that as your programs. Although each state has  
21 certain software and other changes and modifications to suit  
22 itself. But there is a great deal going on in California at  
23 this time.

24 I should also tell you that a number of the  
25 SAVER companies are deeply involved in the Commonwealth of

1 Pennsylvania. Scott Specialty Gas has its world headquarters  
2 in Pennsylvania. Their automotive, one of their major  
3 manufacturers does its manufacturing in Bangor, Pennsylvania.  
4 Of course, sales forces are not necessarily in your state.  
5 So, we have a relationship to Pennsylvania as we do many other  
6 states. We are here to help. We have a deep self-interest.  
7 Mr. Derks and I will be pleased to answer your questions.

8 CHAIRMAN MCCALL: Questions? Paul.

9 BY MR. PARSELLS:

10 Q ARCO's SMOGPRO shops, do they do repairs as  
11 well?

12 A Yes. They are very unusual shops. They do  
13 only I/M inspection and only I/M repairs.

14 Q Do they have any cost data on what the average  
15 cost to the consumer is for those repairs?

16 A I do not have those figures. They have them  
17 and I will get them for you. The discussion by the Texaco  
18 witness earlier about the average cost of an inspection,  
19 uniquely I think in California, there might be one other  
20 state but I am not sure, they have a marketing system, in  
21 other words, the state doesn't set the inspection cost. So,  
22 initially on the BAR90 the inspection on average was very high.  
23 Now we believe we are hearing averages of about \$25 currently.  
24 This is also if you fail you don't pay. It is an interesting  
25 concept and you see those signs posted outside some shops.

1 What they mean generally is you don't pay until you pass. If  
2 you fail you don't get charged a double fee. It just means  
3 that you can come back and you can get retested free of charge.  
4 You pay only be once for inspection. And that is something  
5 those shops have decided on. That is not California law but  
6 that could be mandated in a centralized or decentralized  
7 program. It is a BAR90 program. New York has BAR90,  
8 California, several other places. Again, the Texaco witness  
9 touched a little and I don't want to go too far afield on the  
10 fact that the BAR90 program is a highly computerized program.  
11 That information is downloaded by the state and that is not  
12 like the current Pennsylvania program or many others which are  
13 rather rudimentary by comparison. So that you really don't  
14 have the same thing.

15 The final point is that if EPA, in measuring  
16 centralized versus decentralized says, correctly by the way,  
17 that a tampering inspection, meaning a visual inspection  
18 under the hood is open to abuse, and it is. You cannot  
19 automate a visual inspection. So that when you open the hood  
20 and look under the hood to see whether the components are  
21 there and whether they are connected and under the car, an  
22 inspector can cheat and very well might. They have found very  
23 serious problems in California with tampering inspection.  
24 ARCO agrees with that. California agrees with that. SAVER  
25 agrees with that. EPA agrees with that.



1                   So, what EPA says in modern programs, which  
2 will have what they call a transient loaded mode, what we  
3 said will be steady state loaded mode at one-tenth of the  
4 cost, your machinery will tell you. If the components aren't  
5 there or aren't working, you will know and that is correct.  
6 And so, when EPA says in its draft model, we won't give any  
7 state credit for the visual or tampering inspection because it  
8 is open to abuse. Because the new automated tests we  
9 foresee you won't need it. We believe that.

10                   Then when they say that decentralized is very  
11 poor and centralized is very good, and you will get much more  
12 credit for centralized, they use the bad experience with  
13 visual inspections in California and they say that stuff is  
14 dreadful. Even on the BAR90 there is a 30 percent error rate.  
15 I am shocked it isn't a 75 percent error rate. That is not  
16 going to work. So, EPA can't have it both ways. They can't  
17 say, well, we won't give you credit for visual inspection,  
18 but when we model decentralized, we will penalize you because  
19 visual inspection doesn't work very well. It is absurd.

20                   And then they don't really compare the same  
21 thing in centralized programs because they don't do the same  
22 visual inspection. Again, I'm sorry I gave you a long-winded  
23 answer, sort of a speech. My apologies.

24                   MR. PARSELLS: Thank you.

25                   CHAIRMAN MCCALL: Bob.

1 BY MR. HOLLIS:

2 Q If I hear you correctly, you mentioned that the  
3 state receives seven or eight dollars, California, and then  
4 the service station or whoever operates gets on top of that.  
5 What are these fees that the state charges? What are they  
6 used for? Do you have any idea? Do they go into the highway  
7 fund or --

8 A No, it is not a highway fund. EPA says they  
9 use it for the I/M program. So, what they are saying is,  
10 listen Pennsylvania and listen everyone else, if you do  
11 centralize, it is easy for the state because a centralized  
12 contractor will do everything.

13 Well, first I learned a long time ago there is  
14 no free lunch. Unless you want to be a total captive of the  
15 centralized contractor, they will not do everything and what  
16 they do they must be paid for. So, what we are saying is we  
17 are not going to hide the fact that the decentralized will cost  
18 more somehow. What we would say, if you were to adopt  
19 decentralized, figure out what you need per vehicle in  
20 Pennsylvania for the entire state operation. Let's make  
21 believe that that is three or four dollars, every single  
22 vehicle, every single test because there is a lot of work  
23 involved. It is not cheap, it is not easy and it is not free.  
24 Included in the fee that the motorist pays so that the state  
25 gets that chunk of money out of the fee wouldn't be seven

1 dollars, but it wouldn't be 50 cents either. If you looked at  
2 what your state spends now, I am sure you have that  
3 information or you can, it is not a great deal. It is not  
4 sufficient. And so, something more is needed to support a  
5 decentralized program. Our argument is that unless you do  
6 that, because you can't take it out of the General Fund, I  
7 don't think you've got huge surpluses, you've got to find it  
8 someplace. And if you say, no, we don't want to impose that  
9 three or four dollar fee, we would rather go to a  
10 centralized program, I would say you might have a very bad  
11 choice in doing that but at least it is your choice. At least  
12 EPA should leave that choice to you and we will come to  
13 debate that.

14 But we think we'll prove to you, but we are not  
15 sure, that decentralized will be your option. We want the  
16 opportunity and we think you should have an opportunity to  
17 make a judgment between quality effective programs and  
18 concepts about studies that were raised by the AAA folks.  
19 Those are being developed and debated all over the country;  
20 Virginia, Massachusetts and other states, Ohio. Many states  
21 are moving in that direction and I think you are going to see  
22 legislation in New York state in that direction as well. I  
23 don't know what its fate might be. But the fact is while you  
24 deliberate, you possibly may want to have a multifaceted  
25 study group bring you information.

1 BY CHAIRMAN MCCALL:

2 Q Do you manufacture any of this equipment?

3 A Yes. The heart of SAVER is the manufacturers.

4 Q Are you a manufacturer or are you involved in  
5 a steady state loaded system?

6 A No, there are dynamometer manufacturers.

7 MR. DERKS: We as a company market our product.

8 MR. GETMAN: Both answers are consistent, that  
9 is, as part of a product that Allen and others market, a  
10 dynamometer would be included. There are manufacturers of  
11 dynamometers that are involved in those products.

12 BY CHAIRMAN MCCALL (To Mr. Getman):

13 Q So, the steady state loaded system, does that  
14 technology exist right now?

15 A Oh, yes, oh, yes.

16 Q It does exist?

17 A Yes. There are states now that use  
18 dynamometers but they don't use them in a fashion which we  
19 are describing.

20 Q What is the difference?

21 MR. GETMAN: Why don't you answer?

22 MR. DERKS: Basically it is the steady state  
23 test that we are advocating and use a basic steady state  
24 dynamometer which is a fairly inexpensive dynamometer and it  
25 uses fine line type analyzing equipment. Those products are

1 currently being sold and marketed in the Florida program. In  
2 Florida it is a requirement anybody who does the decentral-  
3 ized reinspection or the decentralized state inspection have  
4 a dynamometer requiring the analyzer. That equipment is  
5 identical to what we use in steady state. It is the exact  
6 equipment that is being used. So, all of that equipment is  
7 readily available right now.

8 BY CHAIRMAN MCCALL: (To Mr. Derks)

9 Q And there is a dynamometer involved with this?

10 A Yes.

11 Q What is the difference? Why such a big  
12 difference in cost?

13 MR. GETMAN: The reason I am taking the micro-  
14 phone back is because I, as a nontechnical guy, have had to  
15 live with this for months and come to understand it before I  
16 could come and talk to people like you about it. I am a  
17 lawyer. I am a nonengineer. He scares me because he knows  
18 so much that I am afraid he is going to put it on a plane  
19 where I won't understand it and you get less exposure to it  
20 so you might not understand it.

21 So, correct me when I'm wrong which will  
22 probably be very soon. Transient dynamometer, IM 240,  
23 supposedly mirrors the entire driving cycle. It follows, it  
24 follows a whole variety of different speeds that the car might  
25 be in and in fact EPA says you ought to be able to get through

1 this dynamometer. It takes a sample of gas. Literally,  
2 physically takes a sample of exhaust gas in a bay area that  
3 comes through during the test and 240 means it is supposed to  
4 take 240 seconds, but we are finding that the tests are taking  
5 about 20 minutes. But leave that aside. That is for another  
6 day.

7 BY CHAIRMAN MCCALL (To Mr. Getman):

8 Q Where did the basis of that information come?

9 A Hammond, Indiana, there is a test site that EPA  
10 uses in a centralized program in which they have one lane set  
11 up with this IM 240 and for a year or maybe more they have  
12 been running cars through. And they had terrible trouble  
13 getting them through even though they have people who are  
14 expert at it and in over a year need a lot of technical help.  
15 If you tried to convert that into low paid centralized floats,  
16 I don't know how you are going to work it.

17 Let's stay with transient loaded motors. They  
18 then take a portion of the gases and actually analyze them on  
19 a computer system. It is very complex. And supposedly they  
20 get a very accurate measure of what that car did through the  
21 whole drive cycle.

22 Now, steady state loaded mode is not quite the  
23 same thing. The dynamometer is much simpler. The dynamometer  
24 can be computer instructed so that depending upon whether you  
25 drive a Ford Taurus or a Cadillac Eldorado or a Chevy Lumina

1 or some other car, each of which needs different instructions  
2 perhaps to the dynamometer, it will also mirror driving speed  
3 but it will not mirror all the different speeds. It will  
4 mirror less.

5 But our experience is that that is more than  
6 sufficient to virtually get you the same results that you are  
7 getting in the IM 240. The IM 240 is EPA's super toy (a)  
8 because they probably want it and (b) because it absolutely  
9 kills decentralize. Nobody can afford it.

10 An interesting side measure also is that the  
11 IM, the steady state load BAR90 does not actually bag the  
12 gases. That is very complex and very costly, very tricky.  
13 What it does is use an infrared system to read what comes out,  
14 and that is being married up in Southwest Labs and what is done  
15 at Sierra, and you will get a very comparable result. The only  
16 problem is that it won't cost ten times as much. The only  
17 problem is it will be done centralized and decentralized.  
18 The only problem is it is highly automatic and much easier to  
19 do. In other words, it is much better in our view and in the  
20 view of independent scientists and testers.

21 So, they are different. But you really need a  
22 dynamometer. EPA is right. You can't go forward anymore  
23 and get everything you need with a two-speed idle test which  
24 was also described by the Texaco fellow a little earlier. You  
25 can get some good results with a two-speed idle test. It isn't

1 trash. It is very good. But there are a number of other  
2 things and we are talking about NOX testing and moving on to  
3 things that are necessary and EPA has raised those issues.  
4 But even though the Sierra Paper of May 1989 was published and  
5 received worldwide, they chose to ignore it and not test it.  
6 Yes, either they really honestly believed that it would work  
7 which proves they were wrong again. The silence that EPA  
8 adheres to, if you seen in recent newspaper accounts, is not  
9 always smart. Or maybe some people simply said we want  
10 centralized. And IM 240 will give us centralized.

11           They never thought we would get data. They  
12 never thought we could do an independent testing. We have  
13 been in Washington as recently as last Friday assuring the  
14 White House, assuring Congressional leaders where that ARCO  
15 testing stands, how soon it will be in. I can't share it with  
16 you. I have preliminary reports on that testing. It is  
17 half done and I had a smile on my face. It is going to be all  
18 done in another couple of days, by Tuesday night. So, I think  
19 we are on the right path,

20           CHAIRMAN MCCALL: You just made a comment, I am  
21 sitting here thinking, I know we have some people from the  
22 service stations. And I guess some of the things that I see  
23 happening, when the federal government mandated that we test  
24 aboveground and underground storage tanks, that just played  
25 havoc in my district and a loss of service stations. But you



1 are talking about convenience right now. I don't have anybody  
2 probably in Landsford, maybe one station in Summit Hill which  
3 is my end of town, to be able to purchase and do testing if we  
4 are talking about decentralizing. Most of them in my  
5 district are AMs and PMs anymore. I don't have gas stations  
6 where I can bring somebody in with bays and have testing done.  
7 So, when we talk about decentralize, I think there could be  
8 an inconvenience in my area because I don't have gas stations  
9 and people of the expertise to actually do the testing and  
10 work if needed.

11 MR. GETMAN: May I ask you a question because I  
12 am not a Pennsylvanian?

13 CHAIRMAN MCCALL: Sure.

14 MR. GETMAN: Your district, is your district a  
15 highly urbanized district?

16 CHAIRMAN MCCALL: No, it is not.

17 MR. GETMAN: So, people are widespread. How  
18 many new car dealers do you have in your district?

19 CHAIRMAN MCCALL: Off the top of my head I'd  
20 say ten or 15.

21 MR. GETMAN: Every one of them can do that.  
22 In other words, I am not suggesting that new car dealers  
23 should be a part of this, but I am responding to your  
24 question. It is a very serious question and has very serious  
25 implications. If you get into rural areas where there is few

1 stations, why should you simply trust me, even though I think  
2 I might be right, that there is going to be so much money in  
3 this that a couple or three stations within your district will  
4 change. It won't be new stations. It will be existing  
5 bays where maybe they are not doing repair work anymore.  
6 They are doing what you just described, they are pumping gas,  
7 maybe a convenience store, maybe doing tire changes or some  
8 other simple stuff or maybe not even that. There will be a  
9 lot of money in it because the Clean Air Act pushes it and  
10 mandates it. And I am not suggesting it is unnecessary.

11 CHAIRMAN MCCALL: Then we get to the question  
12 of costs. A lot of things that this Committee does or this  
13 legislature does will be predicated on what EPA dictates.  
14 And if they dictate IM 240, one of the concerns that every one  
15 of us is going to have is what is that cost going to be to  
16 the consumer. You know, if it is not done in a high volume  
17 manner, will it be cost-effective? They are the questions we  
18 have to have answered. What is the use of having one of my  
19 stations putting in an IM 240 if he is charging \$50 for an  
20 inspection. Whereas, if it is a centralized system, and we  
21 are running cars by high volume, it is eight dollars.

22 MR. GETMAN: One of your stations will not put  
23 in, I remind you, will not put in an IM 240. When we started  
24 looking for allies, because we were afraid for our  
25 businesses, the National Auto Dealers Association was the

1 first serious ally and many of the state groups have come  
2 aboard and worked very closely with us. Because they said,  
3 and after all, auto dealers sometimes have millions invested,  
4 they said we cannot afford to put in an IM 240. They  
5 couldn't. So, I imagine a service station certainly can't.  
6 So, IM 240 is a certainty for centralized.

7                   Representative McCall, in your district you  
8 will be really in trouble in terms of your motorists,  
9 because while there will be a centralized facility someplace,  
10 it cannot be around the corner. At the same time you run  
11 into a kind of situation, let's assume IM 240 is mandated,  
12 but it doesn't exist commercially. It is not working in  
13 Hammond, Indiana. There are enormous problems with it. And  
14 so, EPA will have to back off for years and they will have to  
15 give people four, five, six, seven years to phase in. And  
16 there are these Clean Air Act deadlines. What about the  
17 citizens suits that are going to be brought when the  
18 deadlines hit and EPA has made its little deals. We will do  
19 this for Texas and that for Pennsylvania and this for New  
20 York.

21                   CHAIRMAN MCCALL: I don't think they have that  
22 discretion.

23                   MR. GETMAN: Well, no, they are acting as if  
24 they do.

25                   CHAIRMAN MCCALL: But they don't.

1 MR. GETMAN: I know they don't and I have their  
2 paperwork. I have their paperwork. I have it in hard copy.  
3 We are not supposed to have it, but they have been meeting  
4 with centralized program managers. I guess that is a  
5 separate governmental function they do then they don't tell us.  
6 But see, a lot of centralized program managers are very  
7 unhappy about IM 240 and they are sharing with us because we  
8 do have some common interest. We are not angry at every  
9 centralized program manager. We are in business. We may sell  
10 them equipment in some instances. We think decentralized is  
11 better. But we are not here to fight with you. We are here  
12 to work with you and we are not going to tell you that every  
13 centralized program manager is some kind of evil person. That  
14 is not fair. We are talking about public policy. We think it  
15 accords better with our business. We think that a steady  
16 state loaded mode BAR90, auto dealers in your district are  
17 going to put it in within a couple of years, people in your  
18 district who do some repair work are going to look around and  
19 say, I am losing all this repair business to new car dealers.  
20 I don't want to do that. And some people will carry it.

21 What we find when a new program comes along is,  
22 some of the service station folks might spend new money.  
23 Some of the service station folks will come along and say  
24 we're not going to do this. It is too expensive. And we  
25 absolutely won't and we will drop out and to hell with it.

1 That is the guy who yells the loudest who comes and buys the  
2 first piece of equipment. Why? Because if you got the time  
3 to come yelling the loudest, he understands the business. He  
4 is worrying about the business and he is legitimately looking  
5 after himself not to have to spend more than he has to. But  
6 when it comes to I will have the business or I won't have the  
7 business, if the cost is reasonable, he is going to plunge in  
8 and get the business. The littlest people here who do very  
9 few tests now, the ones who have the least ability, the ones  
10 in some cases who are not so honest, and there is a few of  
11 those, they are going to drop out of this thing. They don't  
12 want any part of it. So, if you have X number of stations  
13 now doing decentralized IM, my seat-of-the-pants guess is  
14 expect to have 20 to 25 percent less. Because some of them  
15 just won't stick. Most will because there is serious money to  
16 make. They will be glad to make it. They've got to service  
17 those cars. They don't want to leave them.

18 CHAIRMAN MCCALL: Thank you.

19 MR. GETMAN: Thank you very much.

20 CHAIRMAN MCCALL: We're going to take a five  
21 or ten-minute break.

22 (Brief recess.)

23 CHAIRMAN MCCALL: I would like to call the  
24 hearing back to order. I would like to call on Sara Nichols,  
25 Delaware Valley Citizens Council for Clean Air.

1 MS. NICHOLS: Thank you for inviting me.  
2 Nancy Parks from the Sierra Club and I frequently exchange  
3 information and pass our understanding --

4 CHAIRMAN MCCALL: Excuse me, Sara. Nancy is --

5 MS. NICHOLS: This is Nancy Parks.

6 CHAIRMAN MCCALL: Are you going to do this  
7 together?

8 MS. NICHOLS: Yes.

9 CHAIRMAN MCCALL: Would you identify yourselves  
10 for the record?

11 MS. NICHOLS: My name is Sara Nichols. I am  
12 Staff Attorney for the Clean Air Council. It is a nonprofit  
13 citizens organization. We do environmental work in  
14 southeastern Pennsylvania, northern Delaware and southern  
15 New Jersey.

16 In the course of our exchanging information,  
17 particularly with regard to this hearing, we realized  
18 virtually everything we wanted to say was redundant. So, we  
19 thought we would spare you the agony of listening to the same  
20 thing twice and going over the same materials twice let alone  
21 the extra paper, and Nancy was kind enough to volunteer to be  
22 the one to present the whole statement.

23 MS. PARKS: My name is Nancy Parks. I  
24 represent the Pennsylvania Chapter of the Sierra Club and its  
25 approximately 20,000 members statewide. I would like to thank

1 you, Mr. Chairman, and members of the Subcommittee for the  
2 opportunity to testify today.

3 In 1988 Pennsylvania registered over  
4 7,766,029 vehicles that each consumed 712 gallons of gasoline  
5 annually. And traveled 81 billion miles.<sup>1</sup> As our  
6 population continues to increase, our number of registered  
7 vehicles and vehicle miles traveled (VMT) will increase as  
8 well.

9 In 1988, nationwide, transportation sources  
10 were responsible for 67 percent carbon monoxide (CO)  
11 emissions, 41 percent nitrogen oxides (NOX), 33 percent of  
12 hydrocarbons (HC) and volatile organic compounds/non-methyl  
13 organic gases (VOC/NMOG), 20 percent of particulates, 34  
14 percent of lead and 56 percent of toxic air emissions  
15 released to the atmosphere. Recognition of this problem led  
16 to auto emission regulation in the late 1960's, but gains from  
17 mobile source emission limits have been continually eroded by  
18 increases in vehicle miles traveled within Pennsylvania by  
19 two percent annually. Emission standards mandated by the  
20 Clean Air Act Amendments of 1990 (CAAA) will, at best, offset  
21 emission increases from vehicle miles traveled growth, while  
22 the new standard for NOX will not keep pace with emission  
23

24 <sup>1</sup>Our Nation's Highways, Selected Facts and  
25 Figures, 1990. Publ. #FHWA-PL-204, HPM-10/490 (50M)E.

1 increases from vehicle miles traveled growth.<sup>2</sup>

2 Pennsylvania had nine areas in nonattainment  
3 for SMOG in 1988, with Philadelphia described as one of the  
4 nine dirtiest metropolitan areas in the country. Pennsylvania  
5 has the seventh largest vehicle fleet and survives with the  
6 sixth highest vehicle miles traveled nationally. An American  
7 Lung Association study and also studies by the Northeast  
8 States Coordinated Air Use Management found that improvements  
9 in mobile source emissions standards comparable to those  
10 adopted in the Clean Air Act of 1990 would not bring  
11 Philadelphia into compliance for ozone before the year 2010,  
12 five years after compliance is due (Ozone standard compliance  
13 due 2005; 15 percent VOC reduction due 1996). Annual health  
14 care costs associated with motor vehicle pollution in  
15 Pennsylvania are estimated between \$199 million and \$4.2  
16 billion. The The Regional Ozone Modelling For Northeast  
17 Transport (ROMNET) final report issued in June 1991 concluded  
18 that attaining the ozone health standard in Philadelphia will  
19 be difficult, even if aggressive VOC and NOX emission control  
20 strategies are implemented. "...the full complement of NOX  
21 controls, plus the maximum technology VOC measures may be  
22 necessary", while at the same time, mobile source reductions

23  
24 <sup>2</sup>Michael Walsh and Blake Early. February 1991,  
25 Adoption of California Tailpipe program in Pennsylvania,  
Sierra Club.



1 from enhanced I/M programs, low emission vehicle (LEV)  
2 equivalent emission standards, reformulated gas (RFG), and  
3 heavy-duty diesel emission standards will be necessary.<sup>3</sup>  
4 Statements such as this from NESCAUM point to the absolute  
5 necessity for Pennsylvania to adopt stringent long term and  
6 short term, cost-effective vehicle pollution reduction methods.

7 California Tailpipe Standards/LEV Program

8 The adoption of the California LEV program will  
9 meet the long-term needs of Pennsylvania, and gain  
10 significant pollution reductions in a cost-effective manner  
11 (70 percent reduction in VOC/NMOG by 1997 and 50 percent  
12 reduction in NOX by 2000).<sup>4</sup> Use of this program would  
13 benefit Pennsylvania with an additional reduction of HC and  
14 NOX of 580 tons/year each by 2000 growing to 1485 tons/year by  
15 2005. NESCAUM has estimated LEV costs to be about one percent  
16 over current cost, while the California Air Resource Board  
17 estimates \$70-\$170 per vehicle. The LEV program is also  
18 much more cost-effective for emission reductions compared to  
19 stationary sources whose costs are about \$4000 to \$10,000 per  
20

21 <sup>3</sup>Letter dated January 3, 1992 from M. J.  
22 Bradley, Executive Director (Northeast States Coordinated Air  
23 Use Management) to Dr. T. F. Yosie (American Petroleum  
24 Institute) on NESCAUM analysis of API report, Assessing the  
25 Economic Effects of the Eastern States Adopting California's  
Low Emission Vehicle Program, October 1991.

4Personal communication, Tom Cackette, Deputy  
Executive Officer, CARB, Sacramento, CA.

1 ton reduction. The LEV program emission reductions are  
2 estimated by Massachusetts to be \$375 per ton reduction of  
3 SMOG forming emissions, and by the California Air Resource  
4 Board to be \$800 to \$1400 per ton reduction.<sup>5</sup>

#### 5 Clunker Buy-Out Programs

6 This type of program apparently has worked  
7 effectively in California in the past two decades, but it is a  
8 good short-term goal only. This program could never replace  
9 the adoption of strong mobile source pollution controls that  
10 will offset increases in the vehicle miles traveled, long-term.

11 The state of California did a follow-up study  
12 of 800 individuals who turned in their pre-1971 cars for a  
13 one-time \$700 payment and found that only 47 percent bought  
14 another vehicle. It is significant that over one-half did  
15 not put another polluting vehicle of any kind back onto the  
16 road.<sup>6</sup>

17 This program would have immediate and  
18 significant benefits since older, more polluting autos would  
19 be off the road faster. This program, of course, will do  
20 nothing to offset increased vehicle miles traveled in the  
21 future. For that reason, the Sierra Club and the Delaware

22 <sup>5</sup>D. B. Cohen. State Government News. August  
23 1991, pg. 18.

24 <sup>6</sup>Personal communication, Barb Kooser, staff  
25 scientist, Chesapeake Bay Foundation.

1 Valley Clean Air Council urge that this program cannot be  
2 used alone as a substitute for a long-term solution, such as  
3 the Low Emissions Vehicle Program.

#### 4 Reformulated Gas (RFG)

5 The Clean Air Act Amendments require that  
6 gasoline sold in the severe nonattainment area of Philadelphia  
7 be cleaned up by 1995. During the summer months (the ozone  
8 high season), gasoline must contain lower VOCs and toxics,  
9 less than one percent Benzene, and no less than two percent  
10 oxygenates by weight. The Clean Air Act Amendments provide  
11 that the governor of any state may elect to apply this program  
12 to any nonattainment area simply by notifying EPA.

13 There will be two types of reformulated  
14 gasoline available; a California and a federal EPA recipe.  
15 California's recipe will provide significant pollution  
16 reductions in tons/day of VOC/NMOG, CO, NOX and SO<sub>2</sub>, but it  
17 will cost significantly more. California Air Resource Board  
18 estimates \$0.14/gallon gasoline for CA/RFG and \$0.04/gallon  
19 more for EPA/RFG. EPA estimates that its recipe will cost  
20 \$0.015/gallon, with a ton VOC emission reductions costing  
21 about \$1000 to \$2000 per ton. Still significantly less than  
22 the cost to reduce at a stationary source. Pennsylvania can  
23 still attain a benefit of 58 percent of VOC/NMOG reduction,  
24 87 percent CO reduction and 25 percent NOX reduction that CA  
25 will achieve with its recipe, if we use the EPA/RFG formula

1 at its lower cost. The Sierra Club and the Delaware Valley  
2 Clean Air Council are recommending that the EPA/RFG formula be  
3 used in Pennsylvania.

#### 4 Enhanced Inspection/Maintenance

5 The Sierra Club and the Delaware Valley Clean  
6 Air Council support a centralized enhanced I/M program for  
7 Pennsylvania because it will be the most effective in  
8 reducing emissions and most cost-effective.

9 EPA studies conclude that a centralized  
10 (independent) enhanced I/M program is 20-40 percent more  
11 cost-effective than our current decentralized program. The  
12 California Air Resource Board data show that 32 percent of  
13 California's vehicles that should have failed inspections have  
14 not. The advantages of the centralized program are:

15 (1) Centralized is less expensive, averaging  
16 \$8.42 in 12 states that are using that, and some of those  
17 states are also using dynamometers while decentralized costs  
18 average \$17.70 per inspection. EPA estimates \$250 million  
19 annual savings in enhanced I/M areas.

20 (2) Consumer protection increases will be  
21 realized since the centralized program will separate  
22 inspection from repairs, dissolving any conflict of interest  
23 issues, particularly since the new repair waiver limit has  
24 been increased to \$450 from \$50.

25 (3) Repairs can be done at decentralized

1 stations currently handling both functions, but reinspection  
2 at centralized facilities is a major deterrent to fraud, and a  
3 check of repair effectiveness, and

4 (4) This high technology inspection program  
5 will legitimately increase repair revenue and offset  
6 inspection revenue lost. EPA estimates repair revenue  
7 increases of \$1 billion annually will be achieved in  
8 enhanced I/M areas if a high tech program with a \$450 waiver  
9 limit is implemented.

10 In summary, The Sierra Club and Delaware  
11 Valley Clean Air Council support

12 (1) The adoption of the California LEV  
13 program, with or without a

14 (2) Clunker buy-out program

15 (3) The use of the federal/EPA RFG formula, and

16 (4) A high tech, centralized enhanced I/M  
17 program, using the \$450 waiver.

18 Thank you.

19 CHAIRMAN MCCALL: Questions?

20 (No response.)

21 CHAIRMAN MCCALL: Thank you. No questions.

22 You are off easy.

23 MS. PARKS: Thank you.

24 CHAIRMAN MCCALL: Norman Childs, American Lung  
25 Association of Delaware/Chester County.

1 MR. CHILDS: I am Normal H. Childs, Chief  
2 Executive Officer of the American Lung Association of  
3 Delaware and Chester Counties, 1534 McDaniel Drive, West  
4 Chester, Pennsylvania. The American Lung Association is  
5 America's original voluntary health agency, tracing its  
6 beginnings to the Pennsylvania Society for the Prevention and  
7 Control of Tuberculosis, formed 100 years ago this year here  
8 in Philadelphia. Today, we are concerned about the  
9 prevention and control of lung disease in all its forms.

10 My personal involvement with air pollution  
11 control in Pennsylvania began in 1967. I served for ten years  
12 as a member of the Citizens Advisory Council to the  
13 Department of Environmental Resources, and as one of its  
14 representatives to the Environmental Quality Board for five  
15 years. I have closely followed the development of our state's  
16 air pollution control program through the years.

17 I appear here before you today as an advocate  
18 for health, lung health, to urge this Committee to take the  
19 action necessary to reduce ozone pollution from motor  
20 vehicles.

21 Asthma is one of the major concerns of the  
22 American Lung Association. Asthma is on the increase in  
23 America, affects an estimated 9.9 million persons, and several  
24 studies have now correlated increased asthma attacks with  
25 increased ozone levels.

1 George D. Thurston, assistant professor of  
2 environmental medicine at New York University, found that  
3 asthma admissions to 87 hospitals in New York City and 35 in  
4 Buffalo increased by 25 to 30 percent on the days when ozone  
5 levels were highest in the summer of 1988. He also reports  
6 that on days when the ozone concentrations were above .12  
7 parts per million (the federal standard) asthma attacks among  
8 children attending a summer camp for asthmatics increased by  
9 30 percent.

10 A study in Atlanta demonstrated a one-third  
11 increase in visits to a pediatric emergency clinic by  
12 asthmatics on days when ozone exceeded .11 parts per million  
13 during the summer of 1990. And a third study at the Robert  
14 Wood Johnson Medical School in New Jersey found a relation  
15 between ozone and hospital asthma admissions at nine hospitals  
16 in north central New Jersey during the summers of 1988 and  
17 1989.

18 These studies document what our physicians  
19 have suspected for years, asthmatics react adversely to  
20 smog -- ozone -- in the air they must breathe. Our present  
21 automobile emission inspection system obviously isn't doing  
22 the job it was intended to do, and we are now required by the  
23 Clean Air Act Amendments of 1990 to improve on this system.

24 Speaking for the American Lung Association of  
25 Delaware and Chester Counties; the American Lung Association

1 of Bucks County; the American Lung Association of  
2 Philadelphia and Montgomery County and the American Lung  
3 Association of Pennsylvania in Harrisburg, we suggest that in  
4 order to adequately protect the health of our asthmatic  
5 children and adults, many of whom are poor, are minorities,  
6 and who live in the inner cities, we must adopt the most  
7 effective I/M program possible. We believe technology has  
8 advanced dramatically since our original I/M program was  
9 adopted, and urge the Commonwealth to adopt a centralized  
10 I/M program as the most effective way to protect the health  
11 of all of our citizens.

12 Thank you for the opportunity of appearing here  
13 today before you.

14 CHAIRMAN MCCALL: Questions?

15 BY REPRESENTATIVE HAYDEN:

16 Q Mr. Childs, Nancy Parks mentioned in her  
17 testimony the American Lung Association study reported to  
18 study mobile source emission standards in Pennsylvania and  
19 compliance deadlines as well as anticipated health care costs  
20 for failure to comply. Could you get a copy of that study to  
21 our Committee of that?

22 A Yes, I'll provide a copy of that study.

23 CHAIRMAN MCCALL: Any other questions?

24 (No response.)

25 CHAIRMAN MCCALL: Thank you very much, Mr.



1 Childs.

2 Finally, we have Claude Baldino from the  
3 Delaware County Inspection Station Operators.

4 MR. BALDINO: Thank you for letting the  
5 Delaware County Inspection Association come here and testify.  
6 My name is Claude Baldino. I am President of the Delaware  
7 County Inspection Association. Myself and David Lee, who is  
8 on the Executive Board of the Inspection Association, are here  
9 today representing the Emission Inspection technicians. We  
10 realize that Pennsylvania has to enhance the I/M program and  
11 that Pennsylvania is considering a centralized system. We  
12 feel strongly that a centralized system is the wrong way to  
13 go and we also feel that the decentralized system can be  
14 improved. Although there have been many problems in the past,  
15 the system works. Today we would like to give our opinion  
16 on how this system could be enhanced when you enhance the I/M  
17 program and keep it decentralized. I would like to turn the  
18 report over to David Lee at this time.

19 MR. LEE: Thank you, Claude. I am David Lee,  
20 and Executive Board member of the Delaware County Inspection  
21 Association. Mr. Chairman and distinguished members of the  
22 House Transportation Committee and Subcommittee on  
23 Transportation Safety, thank you for the opportunity to speak  
24 before you on the subject of Pennsylvania's I/M inspection  
25 program.

1 I have also some attachments for your  
2 information. As we go through them, I will just refer to them  
3 occasionally. Attachment A is nothing more than the  
4 credentials that I have gathered through the years.

5 To reflect for a moment, Pennsylvania's safety  
6 inspection record through the years has brought much praise  
7 from other state officials that I have been privileged to meet  
8 while traveling to obtain I/M and other automotive related  
9 information. The fact that Pennsylvania's independent shops  
10 do safety inspections and emission inspections under two  
11 different enforcement arms surprises many, in the fact that  
12 each system program operates efficiently. I have been  
13 privileged to receive I/M program rules and regulations from  
14 other states that have or are beginning their programs. I  
15 have been able to observe, discuss and examined other states'  
16 efforts and their implementation programs for I/M inspection.  
17 Certain states/areas have the centralized I/M programs and  
18 other states/areas have the decentralized programs.

19 If you refer to Attachment B, this is  
20 Inspection Maintenance Program Implementation Summary which is  
21 published by the federal EPA and this is dated January 1992.  
22 If you look at the top column you will see regions, states  
23 and areas program, when it started and what type it is,  
24 whether or not there is a Tamper Test, a Waiver Type and also  
25 the test fees throughout the United States. Vehicles that are

1 included, any exemptions and light-duty cutpoints for HC, CO  
2 and so forth.

3           You will note the third column down, New  
4 Hampshire, you will note that only CO is inspected in that  
5 particular state. As you would work back through this  
6 particular summary, you would see there are other states and  
7 areas that do the same thing that do not measure  
8 hydrocarbons.

9           I have worked with California's SMOG testing  
10 administrators, both in the Standards and Training Branch of  
11 the Automotive Engineering Branch and I believe their system  
12 is one of the best decentralized programs that I have seen to  
13 date. However, they have organized their program through  
14 many years. They currently provide a fleet of 2200 vehicles  
15 just for covert operations with a strong enforcement arm and  
16 require technician training of from 44 hours to 104 hours,  
17 depending upon the qualifications of the individual. They  
18 inspect approximately six million vehicles a year.

19           The Commonwealth of Virginia has one of the  
20 better decentralized programs, using the BAR84 with disc data  
21 collection. Each compliance officer is equipped with a  
22 laptop computer to complete reports and to download the  
23 stations' I/M tester computer data bank, return to the main  
24 office and download the laptop into the program's master  
25 computer system. Virginia's I/M program will be updated to

1 the BAR90 system and remain, as I have been told, a  
2 decentralized system. They inspect approximately 500,000  
3 vehicles annually.

4                   During my observations of centralized programs,  
5 I found Florida's centralized program the most highly  
6 computerized, with almost instant access to the state's  
7 vehicle registration data bank, for the contractor to  
8 determine if the registration plate and vehicle  
9 identification numbers are valid. The vehicles are tested at  
10 idle with no engine preconditioning. Should the vehicle fail  
11 the I/M test at idle, the engine is then preconditioned on a  
12 dynamometer, at a speed of 30 mph for 30 seconds and  
13 retested while in the idle mode.

14                   Attachment C, if you refer to that, is a  
15 diagram of how the computerization is set up within the  
16 contractor's main office through the state government and  
17 through the District Licensing Agencies. You will notice  
18 that the fleet inspection and reinspection stations are  
19 actually tied into the contractor's main computerization.

20                   Three private contractors are operating in the  
21 affected six counties with a projected inspection of five  
22 million vehicles. However, I was told this projected number  
23 included a great number of rental vehicles, which seemed to be  
24 registered in other counties when the inspection was due.  
25 With the program beginning last April, 1991, 60 reinspection

1 facility applications had been received, but only one  
2 authorized reinspection facility was approved by the state by  
3 November, 1991. The reasons for the small number of  
4 approvals are, a required background check by Florida's State  
5 Police and the federal FBI of any one applying (which can take  
6 up to six months), the initial cost of authorized equipment,  
7 the computerization required and its routing through the  
8 private contractor who controls that area and the training of  
9 personnel (40 hours) to repair failed vehicles and operate the  
10 reinspection facility (the reinspection facility cannot  
11 charge any fee for the reinspection of the failed vehicle).  
12 One must remember, Florida had worked on this program for over  
13 two years, plus having the registration data bank in place  
14 before the program began.

15 To date, the states with decentralized  
16 programs using analyzers meeting or surpassing the BAR90  
17 specifications seem to provide to the public no lines to wait  
18 in, personal recognition, less confusion, less downtime for  
19 their automobile and the one-stop shopping effect that seems  
20 economically acceptable in both time and money to the motoring  
21 public.

22 With the use of major on-board electronics to  
23 control engine fuel management in the vehicles since 1981 and  
24 later, the emission of hydrocarbons (HC) and carbon monoxide  
25 (CO) have been greatly curtailed. As one would note from the

1 varied state pollutant inspection cutpoints as to a pass/fail  
2 determination by an analyzer machine, CO has been at a pass  
3 point of 1.20 percent or below and HC has been at a pass point  
4 of 220 ppm or below since 1981, with no changes since that  
5 date. Within this year span, and with emission required  
6 components in place and operating, the pollutant levels many  
7 times register from 25 percent to zero for CO and from 25 ppm  
8 to zero for HC, with CO<sub>2</sub> in the 12 to 14 percent range,  
9 indicating an efficiently operating engine.

10           Should these vehicles fail the I/M test, the  
11 causes are usually poor maintenance on the owner's part,  
12 inoperative or missing emission components, or the fuel  
13 management system not being in the "closed loop" operating  
14 mode which delicately and electronically controls the  
15 air/fuel mixture entering the engine and having the spark  
16 occur at just the right time to ignite the mixture for proper  
17 burning.

18           With the use of the oxidizing three-way and  
19 dual bed catalytic converters and properly operating air  
20 management systems to inject air into the exhaust stream at  
21 predetermined points, the remaining HC and CO pollutants are  
22 burned before exiting the exhaust system. The development of  
23 nitric oxide is formed at combustion temperatures of 2500  
24 degrees Fahrenheit and above. With properly operating  
25 three-way catalytic converters temperatures of the exhaust

1 gases are lowered when passing over reduction catalysts  
2 within the converter, thus lowering the temperature to under  
3 the magic temperature of 2500 degrees Fahrenheit and causing  
4 the elimination of NOX from the exhaust.

5 Refer to Attachments D-1 and D-2. What I have  
6 there is a basic diagram of a three-way catalytic converter.  
7 You will notice on the right-hand side we have NOX coming into  
8 it and the reduction portion is the one on the left. You will  
9 notice there nitrogen and oxygen separate. We have air  
10 injected into the center or the center of the dual bed and we  
11 go into an oxidation section.

12 On the next page, D-2, is nothing more than a  
13 hypothetical reduction of combustion temperatures. The upper  
14 portion, the upper left, you see combustion chambers in the  
15 4000 to 4500 degree area. As it leaves the engine and  
16 follows the exhaust to the converter, you notice that it could  
17 commit at 3000 degrees at the reduction portion, come down to  
18 1000 or 2000 degrees. We have air coming in from the mixing  
19 chamber and the oxidizing portion will work from 900 to 1500  
20 degrees. At the right I have that catalytic conversion  
21 starts at 500 degrees. Ranges 900 to 1500 degrees and tops is  
22 1800 degrees when in operation. Oxide and nitrogen should  
23 separate at 2500 degrees. So, if your catalytic converter is  
24 doing the job, it will reduce the oxide and the nitrogen.

25 Gentlemen, this is not a class in emission

1 control, but to give you a better understanding of some  
2 components used to control the pollutants from the automobile  
3 engines. The degradation of these controls do not happen  
4 quickly. By federal law these components are required to  
5 perform properly for five years or 50,000 miles, whichever  
6 occurs first, with California requiring a seven year or  
7 70,000 mile warranty. With proper maintenance, these  
8 components can last the useful life of the vehicle which is  
9 100,000 mile. Beginning in 1995 new warranties will be required  
10 from the vehicle manufacturers.

11 What I have done on Attachments E-1, E-2 and  
12 E-3 is to give you a sample of 1992 Federal Emission Control  
13 Systems Warranties for GM vehicles and the first page, E-1  
14 is a five year 50,000 miles emission defect warranty and the  
15 next page is seven year or 70,000 miles for California. So,  
16 at least you can pursue that and maybe get a better  
17 understanding of some of the warranties we are encountering.

18 The Clean Air Act of 1990 requires decisions  
19 from both the federal EPA and the states that are required to  
20 improve their ambient air quality. The federal EPA has not  
21 published the necessary guidelines required by the law in the  
22 time frame allotted. We do know their future guidelines  
23 will include the push towards centralization of the I/M  
24 inspection program.

25 It is the belief of many individuals and



1 businesses involved with Pennsylvania's present I/M program  
2 that it can be made to comply with the requirements of the  
3 federal EPA, with the use of the decentralized program,  
4 statewide, using analyzers meeting the BAR90 specifications  
5 and the beginning of an anti-tampering inspection of every  
6 vehicle in the state and with a registration denial if the  
7 vehicle does not comply with the I/M inspection rules and  
8 regulations.

9 This next attachment, F-1 and F-2 is the  
10 required information from the program for EPA records. And  
11 the F-2 paper is nothing more than test procedures currently  
12 in use in the I/M program which goes from state to the  
13 various areas within the country.

14 We must recognize that many vehicles not in the  
15 I/M program at present, (i.e., not registered in an affected  
16 area) do travel to areas where registered owners are required  
17 to obtain an emission inspection. This type of situation at  
18 present is not controllable. Work requirements may  
19 necessitate this situation and should be corrected so all  
20 owners are treated equally.

21 Pennsylvania's I/M program is unique in the  
22 fact that zip codes were used to designate the original three  
23 areas, the Pittsburgh area, the Philadelphia area and the  
24 Allentown/Bethlehem/Easton area, encompassing approximately  
25 11 counties, designated to become emission inspection areas.

1 Under the Clean Air Act of 1990 the federal  
2 EPA is requiring the state to include 22 more counties  
3 covering the areas of Altoona, Erie, Harrisburg, Johnstown,  
4 Lancaster, Reading, Wilkes-Barre/Scranton, State College,  
5 Williamsport and York. The report dealing with the failure  
6 of 96 areas to meet the ground level ozone (SMOG) standards  
7 and the 41 areas violating carbon monoxide standards were  
8 released Thursday, August 16, 1990 through the EPA  
9 Environmental News, using data collected in the three year  
10 period of 1987-89, just in time for inclusion with the Clean  
11 Air Act of 1990 and for the utilization by the federal EPA to  
12 determine future directions for improvement of state clean  
13 air plans (State Implementation Plans or "SIPS"), which the  
14 EPA must approve or disapprove.

15 It is not a simple decision for the Committee  
16 to make in determining the direction Pennsylvania's I/M program  
17 should go.

18 The Delaware County Inspection Association  
19 wishes to go on record as supporting the following points:

20 (1) Retain our decentralized system for I/M  
21 inspection.

22 (2) Lift the \$8.48 cap and let the market  
23 level the cost, or have the inspection at one-half the repair  
24 shop's hourly rate. (Refer to NJ PIC) And see basically how  
25 they operate that.

1 (3) Include the entire state in the  
2 requirements of the I/M program, not just the added 22  
3 counties.

4 (4) The I/M program should have registration  
5 denial enforcement.

6 (5) Maintain the safety inspection as a  
7 certificate enforcement program.

8 (6) Enhance the I/M program with the BAR90  
9 specification requirements for new analyzers.

10 (7) Perform a mandatory anti-tampering  
11 inspection on each vehicle before the actual tail pipe  
12 inspection is done. The complete inspection must be  
13 accomplished, regardless of the vehicle failure.

14 Attachment G is nothing more than the Model  
15 Year Coverage of Anti-Tampering Inspections. Following down  
16 to where Pennsylvania is listed, you will see that it is a  
17 decentralized type of network and we do no tampering  
18 inspection. We are supposed to do it in case the vehicle  
19 fails, but that is not always done.

20 NOTE: A tamper inspection is done to ensure  
21 the vehicle's original emission control components, required  
22 by EPA to certify the vehicle for sale in the USA, still  
23 remains in place and are in working order. Some states only  
24 require certain components, such as fuel inlet restrictor,  
25 OEM fuel cap and catalytic converter to be in place. I have

1 attached a few certificates from other states which include  
2 inspection of components to determine if tampering has been  
3 done and also a visual inspection requirement from  
4 California's BAR90 system. An Emission Application Manual and  
5 necessary repair manuals must be required and updated yearly  
6 by the inspecting shop.

7 If you refer to Attachment H, you will see the  
8 first one is The Visual Inspection which is a BAR90 screen  
9 from California. On the left side they have a list there of  
10 various components which must be inspected. The next one  
11 would be from the Commonwealth of Virginia. The next is from  
12 Florida which entails two pages and H-4 is New Jersey's  
13 Private Inspection Center or PIC and I have the last one from  
14 the state of Maryland. Should the vehicle fail, these are the  
15 items which must be inspected before the vehicle can apply  
16 for a waiver.

17 (8) Have all hard-core failures and waiver  
18 applications directed to a state operated referee station,  
19 located strategically throughout the state counties.  
20 Stationary and portable I/M testing units, with dynamometers,  
21 could be used and remain in an area as long as required.  
22 Remote sensing devices are available for locating high  
23 emitters and through enforcement, could require these vehicles  
24 to be repaired.

25 And if you refer to Attachments I-1, I-2, I-3

1 and I-4, you will see that we do have new technology in the  
2 remote sensing area. On page I-2, the applications can be  
3 random inspection, tampering inspection, mass data  
4 collection, hot spot inspection, attainment fleet monitoring,  
5 traffic signal setting, entrance/access limitation, driver  
6 information, just to name a few.

7 (9) Have state operated dynamometers available  
8 to monitor oxides of nitrogen (NOX). This could be  
9 accomplished during Item 8. At the present time,  
10 representative sampling of a state's automotive fleet could be  
11 accomplished. (Is as low as one percent of vehicles tested).

12 And I will go off the record for just a second.  
13 Florida, at the present time has put in their oxide and  
14 nitrogen test bans for testing within the contractors' areas  
15 and they are testing one percent of vehicles that are coming  
16 through their particular areas. If you have 100 vehicles  
17 coming through, they are only testing one vehicle for oxide  
18 and nitrogen at the present time.

19 (10) Many have, as authorized I/M inspection  
20 stations, invested much money into analyzers, training and  
21 service policies to maintain the high quality of machine  
22 testing that the Pennsylvania DOT requires. At least 90  
23 percent of the existing stations are willing to reinvest in  
24 the new BAR90 analyzers to maintain the rapport we enjoy with  
25 our customers. Should the entire state become included in

1 the program, a steady increase of I/M inspection stations  
2 would be noted.

3 (11) Should the state decide to commit to a  
4 centralized program with private contractors performing the  
5 I/M inspections, it may be difficult for the vehicle owners  
6 to locate a repair shop that would want to become involved with  
7 I/M related repair work, to avoid becoming part of a  
8 ping-pong effect for the customer.

9 (12) We have the electronic technology, the  
10 required on-board diagnostics, the existing emission  
11 components that have been continually updated to provide  
12 better control of the pollutants being emitted. We need to  
13 control the pre-1981 vehicles, which according to many surveys  
14 and tests, contribute up to 80 percent of the pollutants that  
15 are emitted by today's vehicle fleet. This is a condition  
16 that will be forced to disappear when the new waiver rate of  
17 \$450.00, mandated by the Clean Air Act of 1990 goes into  
18 effect. The technician training and certification remains a  
19 large factor in the future direction of the I/M program. We  
20 must require and provide current and up-to-date service and  
21 repair information to all involved.

22 Gentlemen, these are comments and  
23 observations that I and many others involved with current I/M  
24 programs have encountered and discussed. The Delaware County  
25 Inspection Association members are willing to assist the

1 Committee members to clarify any points that have been  
2 discussed and to offer assistance to the Department of  
3 Transportation personnel, responsible for the implementation  
4 of the new rules and regulations for the future I/M program.

5 Thank you for your time and consideration. I  
6 would be glad to answer any questions that you or the members  
7 may have. If there are no questions, I would like to have Mr.  
8 Baldino conclude our testimony before your Committee. Thank  
9 you.

10 CHAIRMAN MCCALL: Any questions?

11 REPRESENTATIVE HESS: I have one question.

12 BY REPRESENTATIVE HESS (To Mr. Lee):

13 Q As I look at the certificate from, I guess, it  
14 is Virginia, the emissions test and I look down the side it  
15 says failed pass, pass failed, pass. This particular vehicle  
16 here --

17 A Which type of survey?

18 Q It is H-2, H-2.

19 A H-2?

20 Q Yes.

21 A On the right-hand side?

22 Q On the right-hand side where it says PCV system  
23 failed and evaporation system failed. For my own information,  
24 if this vehicle was to be repaired, what would be  
25 approximately a ball park figure cost to have that vehicle

1 repaired to be able to pass this test?

2 A Let me do this with the emission control  
3 system. You look at the PCV system, you find the PC valve  
4 was either missing or disconnected or the hose was broken,  
5 whatever the case may be. Now, this would be a simple matter  
6 of repair. The cost may not even involve ten or \$15. However,  
7 if we get into where the PCV system would enter the induction  
8 system and may burn out possibly part of that induction system,  
9 then your cost would skyrocket. You could have possibly a  
10 base underneath the carburetor which may necessitate being  
11 replaced at a cost possibly of anywhere from 40 to \$70 or  
12 higher.

13 So, this would have to depend upon what the  
14 problem would consist of. If it is an evaporative system,  
15 this could fail. Possibly we could have a canister which  
16 would be filled with gasoline, raw gasoline. How did the  
17 gasoline get there? This is something the technician would  
18 have to find out. Why is that there? It is not supposed to  
19 be there. All the canister is supposed to do is to store  
20 vapors from the fuel, not raw gasoline. These are some of  
21 the things -- it is a hard question to answer because of the  
22 complexity of what may have caused the problem to start with.

23 This particular technician, as he went through  
24 the emission inspection, found the PCV system has a problem.  
25 The catalytic converter as far as he was concerned was fine.



1 The air injection system, the air pump worked or whatever.  
2 The pipes were all intact. It came down to the evaporative  
3 system, you either smell gasoline or lines were broken or  
4 disconnected. So, again, this particular system would fail.

5 He went on down to the fuel restricter. He  
6 pulled the gas cap off, looked down into the inlet where you  
7 put your fuel into the gas tank and he found that the  
8 restricter was a little trapped, what was there. Now, that  
9 would pass. Visible smoke in the state of Virginia, they are  
10 not to be allowed more than five seconds. If there is visible  
11 smoke, then the vehicle fails this particular portion of the  
12 emissions inspection.

13 REPRESENTATIVE HESS: Thank you.

14 BY CHAIRMAN MCCALL (To Mr. Lee):

15 Q What type of equipment do you use currently in  
16 the Commonwealth, testing?

17 A For now?

18 Q Yes, now, for emissions. Is it BAR80  
19 modified to BAR84?

20 A It is a computerized system.

21 Q Is the probe up the tail pipe?

22 A Absolutely. The only time we do a tampering  
23 inspection is if the vehicle fails the initial inspection.  
24 We do a preconditioning of the engine up to 25 rpms plus or  
25 minus three for 30 seconds.

1 Q Preconditioning, is that heating up?

2 A Right.

3 MR. BALDINO: 25 rpms.

4 BY CHAIRMAN MCCALL (To Mr. Baldino):

5 Q I'm looking at the catalytic converter. It  
6 seems to me if your car is not at a certain temperature it is  
7 not going to pass.

8 A A car has to be at operating condition to go  
9 through any emission test. You are not even in a closed loop  
10 when your engine is cold. The computer has to put it in  
11 closed loop or you will fail every time.

12 BY REPRESENTATIVE HESS (To Mr. Baldino):

13 Q Does octane have anything to do with this  
14 emission test?

15 A Not really, not right now.

16 Q The higher the octane, does your fuel burn  
17 cleaner at a higher octane?

18 MR. LEE: You will derive more power from  
19 higher test gasoline than what you will from regular.  
20 Regular gasoline has a flash point which burns gas very  
21 quickly, thereby leaving a lot of residue in your combustion  
22 chamber and so on. Where your high test gasoline has a  
23 higher flash point where it will ignite and consequently will  
24 burn more thoroughly leaving less residue.

25 REPRESENTATIVE HESS: So, you have less

1 emissions?

2 MR. LEE: To a degree, yes.

3 MR. BALDINO: But we are speaking of nonleaded  
4 gas now, correct?

5 REPRESENTATIVE HESS: That is right.

6 MR. BALDINO: Leaded gas is a whole --

7 REPRESENTATIVE HESS: That is another ball game.

8 MR. BALDINO: That's another chapter. I can't  
9 find any in Delaware County. It may exist. I really can't  
10 find any.

11 REPRESENTATIVE HESS: The reason that made me  
12 ask that was that in the other testimony this morning it was  
13 testified that Pennsylvania does not do any octane testing.

14 MR. BALDINO: I think that octane testing means  
15 if you have regular and high test at your station. For  
16 someone putting regular in a high test tank and telling you  
17 it is high test, that is what I think they meant by octane  
18 testing.

19 MR. LEE: You do have certain arms of your  
20 government which comes through. This could be local  
21 government that does come through and test what is taken from  
22 the pumps to verify that if you are selling a high test fuel,  
23 that it is a high test fuel or if you are selling a regular  
24 fuel, that it is a regular fuel.

25 REPRESENTATIVE HESS: I know the local

1 sealers of weights and measures in the counties, they test  
2 for volume accuracy.

3 MR. LEE: Right.

4 REPRESENTATIVE HESS: But I wasn't aware that  
5 they check for octane accuracy. I don't know how they would  
6 do that.

7 MR. LEE: Even federal agencies will come in  
8 and check for either high test or regular fuel just to make  
9 sure you are selling what you say you are selling. This I  
10 do know. I have run into this during my travels throughout  
11 the country where I have been acquainted with numerous people  
12 who have operated service stations and have had this happen to  
13 them where the people will come in, take samples and verify  
14 what they are selling is exactly what they are supposed to be  
15 selling.

16 REPRESENTATIVE HESS: You say that is done  
17 f e d e r a l l y?

18 MR. BALDINO: Yes. But a normal car in normal  
19 specifications, whether you use high test or regular fuel, if  
20 the system is working correctly, you will absolutely pass any  
21 emission testing you can put on the car; absolutely without a  
22 doubt. Some newer 1992 cars, the sequential fuel injected  
23 computerized engines. specify to use regular gas and not high  
24 test now. That is how far they have come. A new 1991-1992  
25 car that has sequential fuel injection computer driven, that

1 is state of the art right now. I really feel if you were to  
2 inspect a 1991 or 1992 car, the readings are so slow on our  
3 instruments right now it is almost impossible for them to  
4 fail. I really feel that emissions will go away in five or  
5 six years due to technology. When you check an engine like is  
6 in an automobile right now, like a General Motors car, when  
7 you have experienced that amber light that goes on and it says  
8 check engine, that means your emissions control device is,  
9 something is out of whack. It doesn't mean you can't drive  
10 the car. That is why it is amber. It is not red like out of  
11 water, you are not charging, no oil pressure. You can still  
12 drive a car like that but when that engine light is on, it is  
13 telling you you are out of specs.

14 REPRESENTATIVE HESS: The car is not operating  
15 efficiently?

16 MR. BALDINO: The newer computer operated cars  
17 it either operates correctly or you have a big problem. The  
18 window is very wide there. It is not like it used to be.  
19 You can't just limber down the highway. In fact, Chrysler  
20 won't even allow the air conditioner to come on. They put you  
21 in what they call a limp-in. You won't do over 25 miles an  
22 hour but you will get home and you will get your car fixed.

23 REPRESENTATIVE HESS: Thank you.

24 MR. BALDINO: To conclude --

25 BY CHAIRMAN MCCALL (To Mr. Baldino):

1 Q Can I just ask a couple of questions here?  
2 Again, I think the charge of this Committee when anything goes  
3 before the General Assembly, they are going to ask what the  
4 cost is going to be to the consumer. What consumer  
5 protections are we going to have here and consumer  
6 convenience? They are all going to be issues we are going to  
7 have to deliberate and debate on the floor of the hall.

8 As far as consumer protection, I would like to  
9 hear your comments should the EPA come out and say a  
10 centralized or decentralized and we just don't know. I think  
11 it depends on whether or not it is the I/M 240 or BAR90. I  
12 think hearing the testimony here today I think we are leaning  
13 toward the I/M 240. But in addition to that, I would just like  
14 to hear your comments. If you do the inspection and the  
15 requirement being you will not be allowed to do the repair  
16 work, what are your thoughts on that?

17 A If it is in-house, I feel the technician, who  
18 is qualified in testing and repair, can repair. A  
19 centralized system is not going to have that technician. It  
20 is not going to pay that technician just to test. If they  
21 feel they are going to do the repairs, if I test a car I want it  
22 repaired. If you go central, sure, it would be hard for me to  
23 say how you actually would handle it. But that is why we want  
24 the referee station set up.

25 Q. I think I went to Maryland, I am almost

1 positive they had referees right on site at the centralized  
2 system or somebody from the Department of Transportation was  
3 on site should there be a dispute or any questions concerning  
4 the inspection. I don't know about the retest. I think they  
5 would be inspected if they failed. They would have to go and  
6 get work done to their car and then come back through the line  
7 and get a retest and recertified free. That is on a  
8 centralized system.

9           What I am saying is that if EPA comes out with  
10 requirements that if you do the test, no matter who it is, if  
11 you do the testing, you cannot do the repair work.

12           MR. LEE: In my opening statement, I think that  
13 would definitely be the wrong way to go. I can see where this  
14 would happen in the centralized type of inspection. However,  
15 in decentralized you can designate that you have A mechanics  
16 and B technicians. A would be only to do the testing,  
17 operate the machine. A B technician would be the person who  
18 would be eligible to repair those particular components on the  
19 car to bring it back into compliance. This is one way you  
20 could designate that it could happen.

21 BY CHAIRMAN MCCALL: (To Mr. Baldino):

22           Q I'm not insinuating by any means that there  
23 will be people that will be taking advantage of the system,  
24 but where is the consumer protection in that? We will have  
25 someone doing the work or doing the inspection and then

1 giving it to the person right next to him and saying, okay,  
2 you have \$450, start doing some of the repair work. Where are  
3 the consumer safeguards or protections, you know, that there  
4 is not work done on that car that may not necessarily have to  
5 be conducted?

6 A Say you had a decentralized program, I had a  
7 BAR90 and your car came into my shop and it failed. The  
8 technician, by looking at the readings, can put it into  
9 categories, air fuel, electric. He cannot give you an  
10 approximate price at that point but he can get close and say,  
11 if the decision is a little hard for you to make, take it to  
12 a referee station and get it retested. In other words, if he  
13 doesn't -- let him go to a referee station. We don't have a  
14 problem with that and never had a problem repairing a failed  
15 vehicle in working with our own customers. That has never  
16 been a problem ever.

17 Q When you look at the states that have  
18 decentralized systems, and California being one of them, and  
19 you listen to the testimony that the Sierra Club gave to us  
20 today, 32 percent of the cars that were tested -- that were  
21 retested by EPA, they found to fail -- or they passed the  
22 inspection but when they were retested by EPA or by the  
23 department, the cars technically have failed. 32 percent,  
24 that is a significant number.

25 A I understand that number. I'm going to say I



1 question the numbers. But some of these reports are made,  
2 just like in the state of Pennsylvania, 80 percent of the  
3 problems on emissions was with record keeping only. It had  
4 nothing to do with the automobile passing or failing.

5 Number two, if they were reinspected on a  
6 tail pipe test, what state was it done? Was the car hot or  
7 cold? You are asking us questions as to problems that really  
8 don't exist with us. I mean that sincerely. They really  
9 don't exist. We have never had a complaint. You have a  
10 referee station right in Delaware County. If you were to pull  
11 it out, I don't think you'd have -- it would be very little.

12 Q So, right now in Delaware County if I went and  
13 had my car inspected and you failed me, I can go to a referee  
14 and say check it?

15 A Absolutely.

16 Q He will do the test?

17 A Absolutely, for free. That is his job. That  
18 is his job right there. It is right in Barclay Square.

19 MR. LEE: These are compliance problems. They  
20 would verify that the test was done properly and completely.  
21 If we, as an inspection station that did the inspection did  
22 it wrong and we were at fault, then they would come down on  
23 us. However, I don't know of anybody that has gone there and  
24 ever had repercussions brought against them because of a  
25 faulty inspection which they have done.

1 BY CHAIRMAN MCCALL (To Mr. Baldino):

2 Q When you talk about the repair work, right now,  
3 see, I have some concern. I am speaking for myself and not  
4 the other members of the Committee. But when the repair work,  
5 right now there is a 25 to \$50 threshold on repair work. That  
6 number is going to increase to \$450. That, to me, is a  
7 significant amount of money. My concern is that, are we  
8 going to have people that will be doing work on these  
9 automobiles that will not be necessary?

10 A Well, first of all, I made a survey in my  
11 shop. From 1988 on up I don't think I have a two percent  
12 failure rate, from 1988 on up with the present  
13 specifications, two percent and 220 parts per million.

14 Q Do you have to be licensed, by the way, to do  
15 the initial testing?

16 A Absolutely, certified by the state. Beyond  
17 the fact of Dave's credentials, he teaches the course.

18 Q My county is not included in the inspection  
19 program currently but will be with the new regulations. That  
20 is why I am educating myself.

21 A You have to go to school to receive your  
22 certificate. To go to school you have to go through a  
23 pretest. If you can't pass the pretest, you can't go on with  
24 the course.

25 Q If EPA requires the I/M 240 would you purchase

1 that and conduct the tests?

2 MR. LEE: Definitely not. The I/M 240 really,  
3 the paperwork that I receive from EPA and from some other  
4 people, the cost on that would run approximately \$20 per  
5 vehicle.

6 BY CHAIRMAN MCCALL:(To Mr. Lee)

7 Q To do the inspection?

8 A Yes, sir.

9 Q And at what volume?

10 A Well, it is a four-minute test, but how long  
11 does it take to set the vehicle up for the particular test?  
12 How long would it take to run it through the reports that are  
13 necessary and wait for the computer to print them out?  
14 Consequently you are running anywhere from 15 to 20 minutes  
15 for one of the I/M 240 tests. Plus the fact that the other  
16 surveys made by other companies, and they found that the  
17 operators cannot even follow the line which the computer tells  
18 them to follow. It is like a driving course in a penny  
19 arcade. The operators cannot do it. So, consequently, you  
20 must hire a professional driver really to drive the course for  
21 the owner. The owner must step out of the vehicle and have  
22 the operator sit in his place.

23 Q I was under the impression there was like four  
24 stations and the car went through the four stations. You are  
25 saying --

1 A Four lanes.

2 Q No, not lanes, stations. There is how many  
3 ever lanes, but in each individual lane there will be four  
4 stations to have the test conducted?

5 A One thing you have to be very careful of, and I  
6 notice this in all of the centralized areas that I have been  
7 to, is the safety factor. Any time you run a vehicle on a  
8 dynamometer you cannot have anybody or anything in front of it.  
9 And it is a good idea to have the doors open because there has  
10 been runaway vehicles.

11 MR. BALDINO: There are portable machines on  
12 the market today. In the tail pipe, the unit is about this  
13 big (demonstrating) and it sits on the front seat.

14 BY CHAIRMAN MCCALL (To Mr. Baldino):

15 Q And drive the car?

16 A Exactly. The dynamometer is only there to  
17 simulate the road test such as 30 miles an hour, 45 miles an  
18 hour. These machines that are out there that are portable,  
19 you drive the customer's car with this hooked up. Naturally  
20 it is not approved by the state. There is no credentials. The  
21 one I looked at is OTC. They're the people's equipment we buy  
22 take care of all of our computer cars. We can tap right into  
23 the car's computer system with their instrumentations, like  
24 state of the art. They have been around for years. They  
25 make a four-gas analyzer. It goes in the tail pipe of the

1 car. I put that on the front seat and I can drive around as  
2 much as I want. There is a lot of alternates that the  
3 dynamometer, number one, the only one in Delaware County that  
4 I know of is the Keystone Diagnostic Clinic and they use it  
5 and it does not take four minutes to run a car on a  
6 dynamometer. It does not take four minutes. It will take  
7 three men on roller skates to hook it up. I don't believe  
8 four minutes. I would like to see it first of all.

9 CHAIRMAN MCCALL: We'll have to see what EPA  
10 says.

11 MR. LEE: This is what our biggest problem,  
12 really. What are the guidelines. In my own opinion, as far  
13 as the \$450 waiver limit, whether I think it is outlandish,  
14 I don't think it is feasible. But it was passed by the  
15 federal government.

16 CHAIRMAN MCCALL: Well, I think you will get  
17 agreement from everyone sitting at this table.

18 MR. LEE: Even in California the highest they  
19 have is \$300 in 1981 and later vehicles. This, you talk  
20 about consumer protection, this does not protect the  
21 consumer when we have a waiver limit of \$450.

22 MR. BALDINO: The average cost right now on a  
23 car above 1981 that fails emissions, the emissions problem,  
24 the average cost for the repair is only \$25 unless a  
25 component part of the automobile is broken, removed, not

1 there or not working at all. But as far as the vacuum lines,  
2 the PCV value, things of that nature and adjustments, the  
3 average repair work hardly ever goes over \$25 unless there is  
4 an actual component part broken and that can always be  
5 justified.

6 CHAIRMAN MCCALL: Any questions anyone?


7 (No response.)

8 MR. BALDINO: The Delaware County Inspection  
9 Association has submitted their report and made clear the  
10 position we are taking. Decentralized, in-house testing, and  
11 repair would secure jobs that may be terminated in the near  
12 future. We urge the state of Pennsylvania to consider all  
13 situations and problems a centralized system will bring about.  
14 Thank you very much.

15 CHAIRMAN MCCALL: Thank you. That concludes  
16 today's hearing and I want to thank all the people who  
17 testified for presenting their testimony on this most  
18 important issue. We certainly appreciate the comments  
19 delivered by all involved. We will certainly compile all of  
20 the data and review all the data before we make any moves as  
21 far as legislation is concerned in the General Assembly. So,  
22 thank you all very much.

23 (Whereupon at 1:30 p.m. the hearing was  
24 concluded.)  
25

1 I hereby certify that the proceedings and  
2 evidence taken by me in the within matter are fully and  
3 accurately indicated in my notes and that this is a true  
4 and correct transcript of same.

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