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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
PUBLIC HEARINGS
Docket No. A-99-06

Regarding Control of Air Pollution
from New Motor Vehicles:

Proposed Heavy-duty Engine and Vehicle Standards
and Highway Diesel Fuel Sulfur Control
Requirements

Monday, June 19, 2000
Crown Plaza Hotel
New York, New York
10:00 a.m.

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4 Becker Farm Road
Roseland, New Jersey 07068
Tel:(973)992-4111 Fax:(973)992-0990

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MODERATED BY:

Margo Oge, presiding officer

Director of the Office of Transportation and Air
Quality

Kathy Callahan, EPA Region 2 Air Division Director

Dawn Martin, Chief of Staff of the Office of Air and
Radiation

Chet France, Director of the Assessment and Standards
Division

1 USEPA PUBLIC HEARINGS
2 Monday, June 19, 2000
3 New York, New York
4

5 MS. OGE: Good morning. On behalf of the
6 Environmental Protection Agency, I would like to
7 welcome you to today's hearing and thank you for taking
8 the time to attend this hearing this morning.

9 I'm Margo Oge, Director of the Office of
10 Transportation and Air Quality, and I will serve as the
11 presiding officer of this hearing.

12 We will hear testimony today on EPA's
13 proposed rulemaking for cleaner trucks, cleaner busses,
14 and cleaner diesel fuel. This is a historic proposal.
15 This proposed program will receive a dramatic reduction
16 in air pollution in the 21st Century. Last year we
17 established a new program to reduce emissions from
18 cars, minivans, pickup trucks, and cleaner burning
19 gasoline.

20 We are now focusing much needed attention on
21 heavy-duty trucks and buses, applying the same
22 principle of treating vehicles and fuel as a system.
23 This proposed program will protect the public health
24 and environment of all Americans by reducing the
25 sulphur content in highway diesel fuel by 97 percent to

1 provide the cleanest diesel trucks and buses in
2 history.

3 Heavy-duty trucks and buses are largely
4 powered by diesel engines. Diesel engines are more
5 durable and get higher fuel economy than gasoline
6 engines, but also tend to pollute more.

7 Over 100 million people across the country
8 breath unhealthy air. Trucks and buses contribute
9 significantly to this problem. For example, here in
10 New York one-third of NOx, which is the nitrogen oxide
11 emissions, and 11 percent of particulate emissions come
12 from those trucks and buses. This pollution causes
13 lung damage and respiratory problems, and there is
14 increasing evidence that diesel exhaust may cause lung
15 cancer.

16 Before we start the testimony, I would like
17 introduce the EPA panel and describe how we will
18 conduct this hearing today. You have already been
19 introduced to Kathy Callahan. Kathy is the director of
20 the Air Office of the Regional Office here in New York
21 City. Thanks for coming, Kathy.

22 On my right is Chet France, he is the
23 Director of the Assessment and Standards Division. On
24 my left is Dawn Martin, Chief of Staff of the Office of
25 Air and Radiation. And Gretchen Graves (phonetic) is a

1 lawyer for today's hearing.

2 This is one of the public hearings that we're
3 going to hold across the country. This is the first of
4 the five public hearings. Please keep in mind that in
5 addition to the opportunity for oral testimony today,
6 this hearing, and the remaining four hearings, the
7 common period for this proposal rule will remain open
8 until August 14 to allow for comments.

9 We are conducting this hearing according to
10 section 3067-D(5) of the Clean Air Act, which requires
11 EPA to provide interested persons with an opportunity
12 for oral presentation of data, in addition to making an
13 opportunity for submissions today.

14 We expect a large number of people to come
15 here to testify, and we will do our best to keep the
16 process moving smoothly and I'm asking for your help,
17 so that everyone has an opportunity to speak. I'm
18 asking everyone to keep your comments to an absolute
19 maximum of ten minutes. You can do a shorter than ten
20 minutes, that would be great. If your testimony runs
21 longer, this is the gentlemen who is going to help you
22 keep track of your time by signaling you before the ten
23 minutes are up. So please look at Ted.

24 Because of the large number of witness who
25 will testify today, this hearing may go into the

1 evening hours, if necessary. We will work through
2 lunchtime and dinner. I will be conducting this
3 hearing formally.

4 We request that witness state their names and
5 affiliations prior to making the statement. Please
6 write your name clearly on the paper provided and place
7 it in front of you so we know who you are. When a
8 witness has finished his or her presentation, a member
9 of the EPA panel may ask questions concerning your
10 testimony.

11 Now, if there are any members of the audience
12 who wish to testify and have not already signed up, I
13 would ask you to please submit your names to the
14 reception table and bring you forward to testify if you
15 would like a transcript of this proceeding, you should
16 make arrangements directly with the court reporter.

17 Before we begin the testimony is, if there
18 are any questions please let me know, if not, I will
19 introduce our first panel.

20 Today, we have few elected officials of this
21 wonderful state of New York. A member of the assembly,
22 Mr. Edward Sullivan is here. Please come forward. And
23 I understand that Ms. Kathy Fried (phonetic), New York
24 City Councilmember is also here. Please come forward.

25 MR. EDWARD SULLIVAN: Good morning. Thank

1 you for coming to New York, and thank you for inviting
2 me. My name is Edward Sullivan, I am a member of the
3 New York State Assembly and I serve, among other
4 committees, on the Environmental Conservation
5 Committee.

6 But the reason I'm here primarily is for two
7 reasons. One is that when I was younger, I was an
8 asthmatic child. I suffered from asthma for many
9 years. I remember very vividly the difficulties of
10 breathing. Simply breathing. Breathing through the
11 night. Breathing through the day. I remember being
12 unable to participate in certain activities that
13 children might normally be expected to participate in
14 because of my difficulty breathing.

15 Today, there are an extraordinary number of
16 young people in the same circumstances. Many of them
17 within district, and many of them live near my
18 district.

19 I represent an area on the Upper West Side of
20 Manhattan, which goes up to the edge of the bus barns,
21 where the buses are kept and where they re-circulate to
22 go on their routes. It is also an area where an
23 enormous number of trucks not only transport goods, but
24 are served also service stations that are located there
25 and, therefore, add to the pollution.

1 The young people in that area -- not only the
2 young -- people who are asthmatic in that area not only
3 go through what I went through as a young person, but
4 they have the additional burden of polluted air that I
5 find is unacceptable.

6 It is bad enough that a young child has to go
7 through and suffer through asthma, but to ask him to
8 suffer through polluted air that is imposed upon him or
9 her by trucks and buses which don't have to do it, is,
10 I feel, unacceptable. There are alternatives. We do
11 not have to have vehicles driven by diesel engines.

12 There are alternatives and those alternatives
13 must be employed to save these young people. Will it
14 cost money? I guess it will. Then we have to decide
15 what are the relative values of a healthy child or the
16 cost of a more efficient engine. Those are decisions
17 that we, as a society, have to make. What is more
18 important? What is more valuable to us?

19 I would like to add one other factor, and
20 that is recently, some years ago, the Americans with
21 Disabilities Act was passed, and as I understand it --
22 I'm not an expert on that Act -- but as I understand
23 it, the idea was that we, as a nation, are going to
24 begin including everybody in our activities, everybody
25 in our social life, and not exclude people who happen

1 to have a disability. Thus, we have, as we have all
2 witnessed, seen stairwells turned into ramps, or
3 elevators and doorways widened, and etcetera. And I
4 think this is all very good, because as one nation,
5 instead of a divided nation, we are a stronger nation.

6 Well, I believe that the Americans with
7 Disabilities Act would apply to the asthmatic children
8 who live in areas where unnecessarily polluted air is
9 being dumped upon them.

10 If that's the case, if there is an
11 alternative available, then I would believe that this
12 polluting of the area takes on not simply a negative
13 thing to do, but possibly an illegal thing to do under
14 the Americans with Disabilities Act. So I would like
15 to call that to your attention. I'm not sure I'm
16 right, but I think it would be something to think about
17 in the protection of these children.

18 Let me just finish by citing a quotation from
19 the Bible, which goes as follows: "Which of you, if
20 your son asks for a fish, would give him a stone?"

21 Well, I ask which of you, if your son or
22 daughter asked for clean air to breathe, would give him
23 or her poisoned air to breathe? Thank you.

24 MS. OGE: Thank you. Ms. Freed.

25 MS. KATHY FREED: (Phonetic) Good morning

1 and I thank you for allowing me to speak. I especially
2 want to thank you for coming forward with the proposed
3 new rules for diesel fuel. I urge you to implement
4 them as soon as possible. And if you could do it
5 tomorrow, I would be just as happy.

6 I represent lower Manhattan, but I don't want
7 to just speak for lower Manhattan I want to talk to the
8 entire City of New York. We, in many ways, are
9 unique. We're certainly the largest city in America,
10 but we probably are the most polluted city. Although,
11 technically, Baltimore is worse. When the studies that
12 came out last year, Manhattan was the second-most
13 polluted city, Queens, the Bronx, and Brooklyn are in
14 the top ten, and Staten Island was in the top 25.

15 I think if you add them altogether, what
16 we're looking at is an environmental disaster. Every
17 single day everyone who breaths is a being assaulted by
18 toxins. Anyone who has lived here for any length of
19 time starts to develop what we refer to as the "New
20 York cough." Like a two-pack-a-day smoker, after a
21 certain point you start coughing.

22 Well, if you live in New York, after a
23 certain point you notice that you come down with sinus
24 problems. You develop respiratory problems. Suddenly
25 you have allergies, and you do develop asthma. That's

1 if you moved here as an adult. If you've been here as
2 a child -- and an unconscionable number of children
3 have asthma. Asthma rates are higher here in the city,
4 and the number one contributor to that is the air that
5 we breath. And certainly diesel fumes.

6 Another unique thing about New York is that
7 we get fully 97 percent of the goods that come into
8 this city come from trucks. The majority of those
9 trucks are diesels. The buses that we have in the
10 Metropolitan Transit Authority, the majority of them
11 are also diesels. We are only now beginning to come in
12 with some alternatives. A lot of the proposals are too
13 little and too late.

14 If you live in New York, you really are
15 assaulted daily by the air that we have to breath. And
16 in addition to the fact that we have incredible amounts
17 of diesel, I think 50 percent of the air pollutants are
18 directly from diesel fumes. And in certain areas like
19 West Harlem, where they live by bus terminals, you have
20 some of the highest asthma rates in the country.

21 Downtown, where people who live near the
22 Canal Street corridor, where for 24 hours a day trucks
23 come from the East River bridge and the Holland Tunnel,
24 we are totally assaulted by diesel fumes.

25 We are actually trying to get the state to

1 put additional monitors down there, because ironically
2 in the city of New York we have what's called "opacity"
3 (phonetic). Which means that if you can actually see
4 the diesel soot, that's illegal. That (inaudible),
5 because that's the least of the problem. It's the
6 small particulate matter that we breath in through our
7 nose and runs through our respiratory system. Because
8 our bodies have no defenses against the small,
9 invisible (inaudible).

10 We're also looking at that fact that diesel
11 soot has been linked to cancer and other respiratory
12 ailments, which I think we haven't even begun to study
13 like we probably should.

14 I don't know what to say except that in New
15 York we are under assault by our own air, and we
16 desperately need to be rescued from this. And if it's
17 removing sulfur that will do this, then we're all for
18 it.

19 Sure there is a cost, but it's been estimated
20 that last year alone the top ten oil companies reported
21 \$11 billion in profits. The one-time cost of removing
22 sulphur from diesel fuel is about a third of that.

23 And the other irony there is that we're
24 looking this at a time that the oil companies are
25 reaping unheard of profits. In fact, right now an

1 investigation is going on in the Midwest to see if
2 there's been price fixing that's been happening because
3 of the astronomical oil prices.

4 But whatever the price, even if it were more
5 than that, we should pay, because we're paying a much
6 higher cost in quality of life and death. The
7 pollution, we must remember, is deadly. Asthma does
8 kill, and it significantly reduces the quality of life
9 for children, for seniors, for all of us.

10 So I would implore you to move on this as
11 soon as possible.

12 Let me just end by saying another thing about
13 New York: We have never been in compliance with the
14 Clean Air Act. We have never been in compliance with
15 the State Implementation Plan. And there are a lot of
16 us in the city who are getting fed up with this.

17 We need a change. We need decent, safe,
18 healthy air. Because if we don't get the air we need,
19 we are looking at the possibility of a lawsuit, and
20 many of those millions or billions of (inaudible) will
21 get us to see to this problem. But we are going to do
22 whatever it takes so we can breathe healthy air.

23 Thank you for these hearings, and I urge you
24 to do whatever you can to get rid of as much diesel as
25 possible. Thank you.

1 MS. OGE: I would like to ask the next panel
2 and first panel to please come forward. Peggy Shepard,
3 Bill Becker, Lewis Frank, Rich Kassel, Bruce
4 Sertelsen. Ms. Shepard, we'll start with you.

5 MS. PEGGY SHEPARD: Good morning. I am the
6 executive director of West Harlem Environmental Action,
7 Incorporated, (WE ACT); co-chair of the Northeast
8 Environmental Justice Network; and vice chair of the
9 National Environmental Justice Advisory Council to the
10 EPA.

11 I appreciate the opportunity to address EPA's
12 new rule intended to dramatically cut diesel pollution
13 over the next ten years.

14 WE ACT works in communities of color to
15 empower residents by educating them on the many
16 environmental pollutants to which they are exposed and
17 to help reduce such exposures in order to improve
18 environmental health, quality of life, and community
19 well being. One of the most important issues that we
20 work to address is air quality and its effect on
21 respiratory disease; a contemporary urban paradigm of
22 transportation, air quality, and public health. In
23 Northeast urban areas like New York City, Baltimore,
24 and Boston, those links are unmistakable.

25 We thank the EPA for initiating this new

1 proposal to curb diesel exhaust because dirty diesel
2 trucks and buses adversely affect me, my family, my
3 community and other New Yorkers. Yet, we are troubled
4 that the communities with a high percentage of
5 residents who are more vulnerable, such as children,
6 the elderly, and the immuno-compromised, whose
7 residents have poor health status such as infant
8 mortality rates, low life expectancy, and epidemic
9 asthma rates, that those communities will continue over
10 the next ten years to see its most vulnerable residents
11 at risk. The EPA's schedule for requiring cleaner,
12 low-sulfur diesel fuel in 2006 is better late than
13 never; but sooner is both feasible and better for
14 public health. Let me tell you why.

15 Environmental Justice communities, home to
16 predominately Latinos, Asian, and Native Americans, are
17 often disproportionately exposed to a variety of
18 environmental hazards. Diesel exhaust is only one of
19 the health risks. Children in these communities are
20 losing the fight against asthma. Not only do
21 African/American and Latino children have a higher risk
22 of asthma than white children, but African/American
23 children are four times more likely to die from asthma
24 compared to Caucasian youth.

25 The demographics of residents living in areas

1 not in compliance with the federal ozone standard is
2 52 percent white, 62 percent African/American, and
3 71 percent Latino. There are significant studies that
4 indicate dramatically the correlation between high
5 ozone levels, increased hospitalizations and emergency
6 room visits for asthma, and premature deaths of
7 vulnerable residents like the elderly.

8 Manhattan, a non-attainment area and listed
9 as an area with the second highest level of air toxics
10 in the country by EPA, has never met the federal
11 regulations for particulate matter. According to an
12 air quality test done in northern Manhattan in the
13 summer of '96 by EPA Region II, the levels of small
14 PM2.5 particulates in the air exceeded the new federal
15 standards by as much as 200 percent at several key
16 intersections.

17 Several studies demonstrated that children
18 living near major roadways have poorer lung function
19 than children living in cleaner areas.

20 In fact, a study conducted several years ago
21 in Harlem by Mary Northridge, an epidemiologist at the
22 Columbia School of Public Health, indicated that of the
23 50 seventh graders in the control group of the study
24 attending school in a quiet street in Harlem, over
25 75 percent had biomarkers for diesel in their urine.

1 The majority had decreased lung function.

2 Neighborhoods in northern Manhattan, which
3 are home to over 500,000 residents, mostly
4 African/Americans and Latinos living in 7.4 square
5 miles, are disproportionately impacted by diesel
6 pollution. The neighborhoods of East, West and Central
7 Harlem and Washington Heights are surrounded by three
8 major highways which do not allow trucks; instead,
9 neighborhood streets become designated truck routes.

10 There is a diesel-fueled Amtrak rail line
11 running through the community; two sewage treatment
12 plants, one of which emits high levels of VOCs -
13 volatile organic compounds like perc; and a marine
14 transfer station to which over 200 heavy-duty diesel
15 sanitation trucks travel daily and sit idling their
16 engines. And due to the city's new solid waste plan,
17 that plant may be expanded along our Hudson River
18 waterfront. Add to that a large NY/NJ Port Authority
19 bus station entered by over 630 diesel buses daily, add
20 over 14 million trucks crossing the Triborough Bridge
21 at 125th Street, and over 50 million cars and trucks
22 crossing the George Washington Bridge yearly.

23 Yet that all pales in light of this fact:
24 Northern Manhattan neighborhoods are home to over
25 one-third of the city's 4,200 diesel bus fleet. There

1 are four Metropolitan Transit Authority depots in
2 Queens, four in Brooklyn, one in the Bronx, and eight
3 in Manhattan. Of those eight, six are above 99th
4 Street. Of those six, two will receive multi-million
5 dollar expansions, one which will be totally rebuilt as
6 a diesel depot, and in the zip code with the highest
7 asthma hospitalizations and deaths in the nation.

8 Because bus ridership demand is up over
9 25 percent, more diesel buses are being purchased, even
10 while all depots are at capacity. Even though state
11 legislature has mandated that the MTA buy more natural
12 gas buses and build no more diesel depots, the MTA over
13 the last year has leased or purchased three new lots to
14 house buses outdoors where they will idle, idle all
15 night in cold weather. These are three new "virtual"
16 depots that will have no city or state oversight, no
17 permits to operate, and no enforcement. Though they
18 will house hundreds of idling buses, they will be
19 listed officially as mere parking lots.

20 Environmental Justice advocates define our
21 environment as "where we live, work, play, and go to
22 school." Yet in most northern Manhattan neighborhoods,
23 diesel bus depots and small truck fleet parking lots
24 are located adjacent to schools, hospitals,
25 recreational facilities, and large housing complexes.

1 One summer day I counted ten diesel buses idling
2 outside the Manhattanville Depot on 128th and Amsterdam
3 Avenue, adjacent to an intermediate school while over
4 fifty youngsters played in a NYC Parks Department
5 swimming pool just a few yards away.

6 The impact of diesel soot is compounded by
7 the fact that it is discharged as street level, where
8 pedestrians are walking and breathing. But for other
9 residents living near northern Manhattan, bus depots,
10 black soot against their windows makes its way indoors
11 to mix with indoor air allergens, which are significant
12 triggers for those with asthma or respiratory illness.

13 Considering that New York City's asthma death
14 rate is higher than that of any other city in the
15 country, it would be accurate to refer to New York as
16 the asthma capital of the world. And since northern
17 Manhattan and South Bronx experience asthma mortality
18 and morbidity rates at three to five times greater than
19 the city-wide average, New York City's problem is
20 northern Manhattan's crisis.

21 For these reasons, to protect the public
22 health, we make the following recommendations:

23 1) There should be nationwide implementation
24 of low sulphur diesel fuel in 2006, if not sooner. The
25 reduction in sulphur in diesel fuel, along with exhaust

1 treatment to reduce nitrogen oxide and particulate
2 matters in diesel emissions will prevent millions of
3 asthma attacks and tens of thousands of cancers per
4 year. Without lowering sulfur in the fuel, the
5 heavy-duty truck industry cannot adequately lower
6 emissions. We support a cap of 15 parts per million on
7 sulfur, which represents a 97 percent reduction of
8 sulfur in fuel. Sulphur must be nearly eliminated from
9 diesel fuel.

10 2) Lower sulfur in diesel fuel means that
11 emission traps and filters will work to reduce
12 pollutants. We support the implementation of
13 after-treatment technologies, but believe that the EPA
14 must be equally as aggressive to mandate the use of
15 alternative fuels and technologies to diesel.

16 3) Now, let's get rid of the phase-in period
17 for diesel engines. These standards will not take
18 effect for seven years, which give manufacturers enough
19 time to plan and make the switch in technology. While
20 we wait to phase-in this rule, many children's lives
21 will be phased out.

22 4) New trucks should be required to meet
23 tighter limits on smog-forming emissions of nitrogen
24 oxides by 2007, not 2010.

25 5) It is not enough to require new trucks to

1 be cleaner. By 2004, the EPA should also establish a
2 program for checking in-use emissions for used trucks.

3 6) Incentives must be provided for use of
4 advanced technologies. It is time to invest in the
5 next generation of technology that can serve the role
6 of diesel without the health and environmental impacts.
7 We support the concept of incentives targeted at
8 manufacturers who go beyond the mandates of this rule
9 and create even cleaner alternatives. EPA should
10 create incentives for use of natural gas, electric and
11 fuel cell vehicles in transit, sanitation, and other
12 key urban fleets.

13 7) It is appropriate to conduct an
14 evaluation and assessment of the impact and
15 effectiveness of these rules as soon as feasible.
16 However, there is no need to wait to consider
17 appropriate penalties for noncompliance. Penalties
18 that can ensure compliance should be drafted
19 immediately.

20 8) And finally, there is always a cost to do
21 something differently. And I believe that the cost of
22 increased emergency room visits, hospitalizations, lost
23 school days, lost work days, and family disruptions are
24 worth the pennies per gallon and the \$1,600 per
25 heavy-duty vehicle is cost effective.

1 MS. OGE: Thank you. Mr. Becker, good
2 morning.

3 MR. BILL BECKER: Good morning. My name is
4 Bill Becker, I'm the executive director of STAPPA, the
5 State and Territorial Air Pollution Program
6 Administrators, and ALAPCO, the Association of Air
7 Pollution Control Officials, two national associations
8 of air quality officials in the states and territories
9 and more than 165 major metropolitan areas across the
10 country.

11 I am pleased to be here this morning to
12 provide our associations' testimony on EPA's recent
13 proposal to set more stringent emission standards for
14 on-road heavy-duty engines, and especially to reduce
15 levels of sulphur in on-road diesel fuel.

16 On behalf of STAPPA and ALAPCO, I would like
17 to commend EPA for its continued leadership in reducing
18 air pollution for the mobile source sector. Your final
19 promulgation last December of Tier 2 motor vehicle
20 emission standards and a national low-sulfur gasoline
21 program was a remarkable accomplishment that will
22 benefit the entire country.

23 This month's heavy-duty engine and low-sulfur
24 diesel proposal is further demonstration of the
25 agency's commitment to efficiently and cost effectively

1 reducing a wide variety of mobile source-related
2 emissions to achieve meaningful improvements in air
3 quality across the nation; we applaud this initiative
4 and the "systems approach" which addresses both the
5 engine and its fuel, upon which it is based.

6 We are especially pleased that the proposed
7 heavy-duty engine and diesel sulfur program reflects
8 the key recommendations made by our association. This
9 program is of vital importance to our memberships. For
10 this reason, our associations has adopted, with almost
11 unanimous support, a resolution calling upon EPA to
12 establish a stringent low-sulfur diesel fuel cap to
13 enable the introduction and effective operation of
14 advanced technologies, such as lean-NOx catalysts and
15 adsorbers and particulate filters; a copy of the
16 resolution is attached to my statement.

17 We have placed the highest priority on
18 participating in the rule development process, and are
19 proud that EPA has concluded that the most appropriate
20 strategy so closely mirrors that which we have
21 advocated.

22 As the officials with primary responsibility
23 for achieving and maintaining clean, healthful air
24 across the country, state and local agencies are keenly
25 aware of the need to aggressively pursue emission

1 reductions from the heavy-duty mobile source sector,
2 which contributes substantially to a variety of air
3 quality problems. As EPA acknowledges in this
4 proposal, by 2007, when the proposed engine standards
5 would take effect, on-road heavy-duty engines and
6 vehicles will account for 29 percent of mobile source
7 NOx emissions and 14 percent of mobile source PM
8 emissions.

9 Under the control strategy EPA has proposed,
10 however, by 2030 on-road heavy-duty vehicle NOx
11 emissions would be reduced by 2.8 million tons and PM
12 emissions by approximately 110,000 tons. These
13 emissions reductions, as well as others that the
14 proposed rule would affect, will play a pivotal role in
15 addressing an array of significant environmental
16 problems that continue to pose health and welfare risks
17 nationwide; including those associated with
18 ground-level ozone; coarse and fine particulate matter;
19 sulfur oxides; air toxics; visibility impairment; the
20 acidification, nitrification and eutrophication of
21 water bodies; and global warming.

22 Based on the substantial contribution of
23 heavy-duty vehicle emissions to air pollution and very
24 serious public environmental problems, we have no
25 alternative but to impose greater controls on these

1 sources and their fuels, and to do so in a truly
2 meaningful way. Further, because many of these
3 vehicles constantly travel back and forth across the
4 country, their emissions are ubiquitous. For this
5 reason, regulation of the heavy-duty mobile source
6 sector, and of the fuels used by these sources, must be
7 done on a national basis as EPA has proposed.

8 In the coming weeks, our association will be
9 providing comprehensive written comments on the
10 complete proposal. Today, however, I would like to
11 focus my comments on a few fundamental issues.

12 The air pollution that comes from big diesel
13 buses and trucks is not only among the most visible
14 there is, but it is also among the most offensive.
15 What is the worse, however, is that the noxious exhaust
16 brings with it adverse health impacts that can be dire,
17 posing a serious threat to public health nationwide.
18 Perhaps the greatest risk comes from the toxic
19 emissions. Diesel exhaust contains over 40 chemicals
20 that are listed by EPA and California as toxic air
21 contaminants, known human carcinogens, probable human
22 carcinogens, reproductive toxicants or endocrine
23 disrupters. In 1998 California declared particulate
24 emissions from diesel-fueled engines a toxic air
25 contaminant, based on data that supported links between

1 diesel exposures and human cancer.

2 Further, last fall the South Coast Air
3 Quality Management District in Los Angeles, California
4 released a draft final report, the "Multiple Air Toxics
5 Exposure Study in the South Coast Air Basin
6 (MATES-II)," which included an analysis for cancer risk
7 in the region from exposure to diesel particulate.

8 Based on this analysis - which estimated
9 diesel particulate levels by using elemental carbon as
10 a surrogate and applied a cancer potency factor
11 determined by the state of California - South Coast
12 concluded that of the cancer risk posed by air
13 pollution, 70 percent is attributable to diesel
14 particulate emissions, with mobile sources being the
15 dominant contributor.

16 Our associations were alarmed by South
17 Coast's findings. So this past spring, based on a
18 tailored, more conservative version of the MATES-II
19 methodology, we sought to extrapolate the evaluation of
20 cancer risk from diesel particulate to other cities
21 across the country and to estimate how many cancers
22 nationwide are the result of exposure to diesel
23 particulate. By applying a MATES-II methodology, we
24 found that on a nationwide basis, diesel particulate
25 maybe responsible for 125,000 cancers over a lifetime.

1 Now let me be clear, this is not a precise
2 number. Instead, it is an approximation of a potential
3 impact of exposure to diesel particulate that
4 highlights the need for swift and certain regulatory
5 action. Further, it allows us to estimate that EPA's
6 proposal, which includes a 90 percent reduction in
7 particulate emissions, could prevent 35,000 of these
8 cancers. We cannot afford to forego this opportunity.
9 And EPA, much to its credit, has issued a proposal that
10 ensures that we will not.

11 Our association congratulates EPA for
12 responding to a serious environmental problem with an
13 equally serious strategy that establishes rigorous
14 emission standards for on-road heavy-duty diesels and a
15 commensurately low cap on sulfur in diesel fuel, all
16 within a time frame that will allow us to reap the
17 benefits of this program beginning with the 2007 model
18 year. Although there are several aspects of the
19 proposal with which we have concerns, and we will offer
20 recommendations, the fact remains that key components
21 of this proposal are rock solid and we support them.

22 With respect to the emission standards, we
23 strongly endorse the levels EPA has proposed: A
24 particulate matter standard of 0.01 grams per brake
25 horsepower-hour, and a NOx stand of 0.2 grams per brake

1 horsepower-hour, which are 90 and 95 percent cleaner
2 that today's standards, respectively. However,
3 although we are very pleased that the PM standard will
4 take full effect in 2007, we have concerns regarding
5 the four-year phase-in period proposed for the NOx
6 standard, and will offer further discussion of this in
7 our written comments.

8 Inextricably linked to the proposed engine
9 standards is the issue of low-sulfur diesel fuel. The
10 ability of heavy-duty diesels to comply with the
11 stringent engine standards that EPA has appropriately
12 proposed a directly dependent on a timely, nationwide
13 availability of diesel fuel with ultra-low levels of
14 sulfur. Without such fuel, the technologies capable of
15 achieving such low emission standards will be rendered
16 inoperable.

17 For this reason, STAPPA and ALAPCO vigorously
18 support the proposed 15 parts per million cap on sulfur
19 in diesel fuel, to take full effect across the country
20 in mid-2006, with no phase-in. This provision of the
21 proposal is absolutely essential; while an even lower
22 cap may prove to be necessary, it's crucial that the
23 final rule include a fully effective, nationwide cap of
24 no higher than 15 parts per million by mid-2006.

25 Finally, while non-road diesel engines are

1 not addressed by this proposal, we view the control of
2 non-road diesels to be as critical as the control of
3 on-road diesels. Further, we firmly believe that the
4 technological advances that will occur in order to meet
5 future, more stringent on-road heavy-duty diesel
6 standards will carry over to non-road equipment, but
7 only if very low-sulfur diesel fuel is available for
8 this sector as well.

9 We are extremely concerned, however, that EPA
10 may not be proceeding as quickly or aggressively as
11 necessary to develop non-road diesel engine and fuel
12 programs that are commensurate with the enormous
13 contribution non-road diesels make to air pollution;
14 more must be done.

15 In conclusion, I thank you for this
16 opportunity to provide the associations' preliminary
17 perspectives on your rulemaking. We applaud EPA for
18 seizing the opportunity to take another enormous step
19 toward cleaning up the mobile source sector and
20 achieving our nation's clean air goals.

21 We commend your leadership in developing a
22 technologically, economically, and environmentally
23 credible approach for addressing on-road heavy-duty
24 diesel engines, and fuels. Preserving the integrity of
25 the framework that you have proposed is imperative to

1 the viability of this program and, moreover, to the
2 efforts of states and localities across the country to
3 achieve and sustain clean, healthful air.

4 MS. OGE: Thank you. Mr. Frank, good
5 morning.

6 MR. LOUIS FRANK: I'm Louis Frank, president
7 of Marathon Ashland Petroleum, LLC. My company is the
8 fourth largest US refiner, operating refineries with a
9 combined capacity of 935,000 barrels per day --

10 MS. OGE: Could you please speak closer to
11 the microphone, we cannot hear you.

12 MR. FRANK: The energy industry asks that you
13 carefully consider our views on EPA's recently proposed
14 diesel sulfur regulations.

15 First, understand that we support reducing
16 sulfur content in diesel fuel. This is an area where
17 fuel producers can make a positive contribution.
18 US Air quality has benefitted because of, and in
19 proportion to the extent we have formulated fuels to
20 cut tailpipe and exhaust stack emissions in the past.

21 The oil industry proposal of a 90 percent
22 reduction in highway diesel fuel sulfur levels to 50
23 parts per million will enable technology to meet EPA's
24 proposed particulate matter standard, and achieve
25 80 percent of EPA's proposed nitrogen oxide standard at

1 half the cost of EPA's proposal. Plus, our proposal is
2 achievable.

3 EPA's statistics proves that nearly
4 two-thirds of America's air quality improvement is due
5 to clean fuels and clean engine technology. Moreover,
6 the improvement has been steady and is continuing, and
7 I'm proud of that result. Please note that there was
8 no magic involved, it was a painstaking process of
9 finding out what worked, technically, economically,
10 commercially. And we do this for a living, we can't
11 afford to be wrong. Costs and benefits have to
12 balance. And that goes to the heart of industry's
13 contention that pushing beyond a 90 percent reduction
14 in diesel sulfur puts wishful thinking ahead of market
15 reality.

16 The 97 percent reduction is only required
17 because the agency has arbitrarily targeted a
18 90 percent reduction in NOx from the 2004 standards.
19 This proposal would take sulfur levels to 15 parts per
20 million by 2006. This is a regulatory triple threat
21 with the potential to seriously affect diesel supplies,
22 and harm the entire US economy.

23 A large capital cost penalty is forced upon
24 the industry because sulphur reduction to this level
25 requires new, high pressure, hydrotreating units. Only

1 a handful of suppliers design and build these units.
2 Refiners will face a choice of having to invest in new
3 high-cost hydrotreating, or relying on existing units
4 to produce a reduced volume of diesel fuel from the
5 available straight run stocks. Many will choose the
6 latter course, and the supply of diesel fuel in the
7 United States will shrink.

8 Motorists have complained bitterly about this
9 summer's price spikes caused by the roll-out of new
10 environmental fuel formulations that have been enacted
11 by the EPA. Higher costs and supply shortages could
12 produce this same effect for diesel fuel consumers.

13 And these consumers are not Sunday drivers,
14 they represent the bread and butter of the country's
15 economy. These are the people who haul dry freight,
16 mail, and merchandise from plant to port. Economic
17 over-the-road distribution has made just-in-time
18 inventories a standard requirement for American
19 factories. Cheap fuel has kept us competitive with
20 low-wage markets abroad. And low diesel prices have
21 made it possible for independent truckers to earn a
22 decent living.

23 The American Trucking Association, and more
24 than 1.8 million farm families and 4,000 agriculture
25 cooperatives have joined with us in calling for a

1 slower, more prudent approach to diesel standards.

2 EPA does not share our caution. But EPA's
3 case is based on the use of vehicle technology that is
4 still today unprovable. This is technology, which
5 EPA's admits has not advanced from the chalkboard to
6 field trial stage. In preliminary tests, the EPA
7 recommended technology has failed to hit target
8 emission levels regardless of fuel sulphur content.
9 EPA is requiring our industry to spend billions of
10 dollars on its belief that this unproven technology
11 will be there when it's needed.

12 Industry knows how to hit the 15 parts per
13 million standard. But we also know that volumes are
14 cost-constrained. Refiners will choose to produce less
15 product. Any trucker or fleet operator can tell you
16 what that will do to their business. Our estimate is
17 that EPA's proposal would add about \$2,600 to the cost
18 of a trucker's annual operation. And that is before we
19 address the cost required for the infrastructure
20 adjustments that keep the new, cleaner fuel separate
21 from the high level sulfur fuels.

22 Real-world constraints will also affect our
23 ability to maintain the 15 parts per million standard
24 through thousands of miles of pipeline, shipment,
25 terminal storage, and service station disposition.

1 Fifteen parts per million is equivalent to less than a
2 tablespoon of water in an Olympic size swimming pool.
3 Contamination at the molecular level could endanger
4 this fragile standard.

5 The reality is that the refiners would
6 actually have to reduce levels below 15 ppm to have
7 regional assurance that the product stayed on
8 specification. Even after taking the steps, 10 to
9 20 percent of the proposed ultra-pure fuels will become
10 contaminated and will have to be downgraded into higher
11 sulphur products, and/or shipped back to the refineries
12 for reprocessing.

13 EPA has raised the possibility of phasing in
14 its sulfur requirements to mitigate their impact. This
15 would necessitate purchasing additional tanks, piping,
16 and pumps to accommodate the sale of two grades of
17 highway diesel fuel. This is nothing less than
18 requiring a second grade of on-road diesel fuel which
19 is extremely expensive. This may sound simple, but it
20 will require a whole new infrastructure to be created,
21 which will only be needed for two to three years. The
22 bottom line is: Less efficiency and more cost.

23 I'm saying to you, on behalf of America's
24 energy industry, that we have prepared to undertake a
25 landmark 90 percent reduction in diesel sulfur levels,

1 knowing full well what that entails in terms of
2 production cost, quality maintenance, and capital
3 investment. Moreover, the 90 percent reduction should
4 achieve virtually all the emission reductions of EPA's
5 more severe standard.

6 We support this reduction and we understand
7 its potential health benefit. But this is not a poker
8 game. We are not arguing over table stakes. Anyone
9 can demand too much too soon. Setting an appropriate
10 regulatory standard demands wisdom, courage, and care.

11 Is 15 parts per million an appropriate
12 standard? A reasonable person will acknowledge that
13 market and technological realities mean more than
14 wishful thinking when it comes to goal setting. And
15 such a person will also acknowledge that American
16 well-being is measured in the quality of life its
17 people can afford and its transportation-based economy
18 can support. In that light, the 15 parts per million
19 standard is actually counterproductive.

20 In summary, I would like to say that this
21 proposed rule is bad rulemaking in that it should be
22 moderated and tempered to something that can seem to be
23 achievable within the industry.

24 I would like to thank you for your time and
25 consideration, and I would be happy to answer any

1 questions that anybody might have.

2 MS. OGE: Thank you. Mr. Kassel, good
3 morning.

4 MR. RICHARD KASSEL: Good morning. My name
5 is Richard Kassel. I'm a senior attorney for the
6 National Resources Defense Council, (NRDC,) a national
7 environmental advocacy organization with over 400,000
8 members nationwide, many of whom live in New York.

9 I coordinate the Dump Dirty Diesels
10 Campaign. I am a representative on EPA's mobile source
11 technological review subcommittee. Thank you very much
12 for the proposal and for the opportunity to comment
13 today. I'm going to speak briefly, we have more
14 details in our written statement. We will also
15 supplement our written statement.

16 NRDC has been working to clean up diesel
17 emissions since the mid-1970s. Ironically, in the
18 attempt to remove lead from gasoline, we began a new
19 phase of the campaign, the Dump Dirty Diesels Campaign,
20 when we decided it was time to work and focus on urban
21 bus fleets in New York, Los Angeles, and later
22 Washington, to move beyond diesel to cleaner
23 alternative fuels.

24 The Dump Dirty Diesels Campaign in both local
25 forums and national forums, are a top priority

1 campaign. In our view, diesel's toxic particles and
2 nitrogen oxide emissions are probably the most serious
3 air pollution threat facing many Americans, not only
4 New Yorkers, but many urban areas.

5 So we're here to congratulate EPA for the
6 proposal, and to urge EPA to keep to the levels for
7 particulates, nitrogen oxide, formaldehyde and, of
8 course, sulfur.

9 The reasons for our concern are clear: EPA's
10 proposal means cleaner air and better health for all of
11 us. Diesel exhaust is filled with asthma-attack
12 producing soot particles.

13 NRDC recently applied the California EPA risk
14 assessment for diesel particulate to the diesel
15 particulate levels that are found right here in midtown
16 Manhattan, and we estimate that at the current level of
17 diesel pollution, that could yield a lifetime of
18 potential cancer risk of 8870 cancers per million. I
19 might add that while this estimate is not an exact
20 predictor, it is clearly illustrative of the order of
21 magnitude of diesel potential for cancer risks.

22 The reasons for concern are clear, but so are
23 the reasons for applause. Implementing your proposal
24 in full will be the environmental equivalent of
25 removing 13 million of today's trucks from the roads.

1 The barrier to cleaner trucks and buses is,
2 in a word, sulphur. Just as lead in gasoline was a
3 barrier to cleaner cars in the 1970s, today's
4 high-sulfur diesel fuel is the barrier to cleaner
5 trucks and buses for a similar reason:

6 Because it prevents the use of advanced
7 control technology that, in this case, could eliminate
8 diesel's black cloud.

9 EPA and the administration should continue to
10 hold firm, you're on the verge of a watershed moment in
11 air pollution regulation. When it happens, removing
12 sulfur from diesel fuel will be the biggest vehicle
13 pollution news since the removal of lead from gas.

14 By cleaning up every bus and truck in the
15 nation, this should mean longer, healthier lives for
16 asthmatics, and many other Americans who currently hold
17 their breath when a diesel truck blows by.

18 It's worth noting that New York City is a
19 great place for your first hearing on this proposal for
20 several reasons:

21 First, as you've heard, we live with some of
22 the highest diesel particulate matter levels in the
23 nation. Over half of the particulate emissions in
24 midtown Manhattan come from diesel tailpipes. That's
25 more than ten times the national average contribution

1 of diesel particulate to ambient particulate.

2 Second, we live with chronically high
3 summertime smog levels. Here in the northeast there
4 were 339 exceedances of the eight-hour ozone standard
5 in just the first eleven days of June. This past
6 Saturday, EPA was actually reporting and forecasting
7 more.

8 Third, New York State is home to more than a
9 million asthmatics, including over 500,000 children. We
10 live with some of the highest asthma rates in the
11 nation.

12 And finally, New York City and State are at
13 the forefront for adopting clean-fuel bus
14 technologies.

15 The NRDC celebrated a huge victory here in
16 New York, when the state's Metropolitan Transportation
17 Authority agreed to finally clean up its bus fleet --
18 after a decade-long campaign -- with a combination of
19 low-sulfur diesel, natural gas, and hybrid-electric
20 buses. Likewise, the city's Department of
21 Transportation already has had a long-standing
22 commitment and is converting its entire bus fleet to
23 compressed natural gas.

24 What these actions show is not only that
25 cleaner heavy-duty vehicles are necessary and desirable

1 from an environmental and public health perspective,
2 but that they are feasible from a perspective of some
3 of the largest bus fleets in the nation.

4 With the time that I have left, I would like
5 to touch briefly on NRDC's support. More detailed
6 comments are in my written testimony, which I submit
7 into the record.

8 First, we strongly support EPA's proposed
9 national sulfur cap of 15 parts per million. NRDC
10 would strongly oppose any relaxation of that proposal.

11 Implementing the new sulfur cap nationally by
12 mid-2006 makes sense for at least two reasons. First,
13 a national approach to low-sulfur diesel is critical,
14 given the mobility of the vehicles themselves. Second,
15 implementing the low-sulfur cap in mid-2006 ensures
16 that the fuel supply of low-sulfur diesel will be
17 adequate to service those first model year 2007
18 vehicles that are sold typically in the summer and fall
19 preceding the calendar year.

20 Third, it's critical that EPA adopts the
21 sulfur cap. Any sulfur cap less stringent will
22 jeopardize the technical feasibility of the proposed
23 particulate and NOx standards by disabling some of the
24 most promising NOx controls on the drawing boards, and
25 by reduce the (inaudible) that are already on New York

1 City streets.

2 Let's me be clear: The oil industry has
3 already recommended what they call a more reasonable
4 approach. But the reality is: It's a statement of
5 opposition to achieving the particulate and NOx
6 standards that EPA has set forth in its proposal, and
7 by association it's a statement of opposition to the
8 asthma and cancer reductions provided by those
9 particulate and nitrogen oxide reductions. The same
10 industries that fought unleaded gasoline are now
11 fighting against desulfurized fuel.

12 Because they can't win on the science or
13 health, the oil industry argues poverty and harm to the
14 US economy. Let's put this in perspective.

15 America's largest oil companies reported
16 nearly \$12 billion in profits in just the first quarter
17 of 2000; yet industry-wide compliance costs less than 4
18 billion for the entire roll out of this rule. Surely
19 this investment is a reasonable cost of continuing what
20 is obviously an extremely profitable business.

21 As for the US economy, it's estimated that
22 these rules could add three or four cents to the cost
23 of a gallon of diesel fuel. Hardly enough to derail
24 the nation's strong economy. It is worth noting that
25 BP Amoco has already reported that its 15 ppm sulfur

1 fuel will be sold in California next year at an
2 incremental cost of only 5 cents a gallon. And that's
3 even without the economies-of-scale benefits of a
4 nationwide fuel.

5 Some industry opponents, of course, are
6 urging delay by asserting a need for more time to study
7 the proposal, that the EPA should not rush to reduce
8 diesel emissions this year.

9 To them, NRDC responds: You've had more than
10 20 years' notice from the environmental and public
11 health community that it's time to dump the dirty
12 diesels, and time's up.

13 Europeans are using technologies that require
14 low-sulfur diesel, and are reaping the benefits.
15 Americans should too.

16 We support the proposed standards, and we
17 strongly support the NOx standard. By 2007, low sulphur diesel
18 full should be available nationwide so there's no fuel
19 barrier to the national use of advanced controls.

20 The implementing all of the new standards at
21 the same time will minimize the cost and burdens of
22 compliance.

23 Low emissions (inaudible) activities from
24 around the world and European communities, upcoming
25 diesel fuel and emission requirements will create

1 momentum for product development, and national
2 non-diesel alternatives will significantly
3 (inaudible).

4 I would just like to say a word in support of
5 strong Blue Sky standards. (inaudible) to provide
6 creative incentives and guidance to state and local
7 fleet programs that are trying to introduce the
8 cleanest technology, and trying to ensure that they
9 meet their set goals for the next decade. Thank you
10 very much.

11 MS. OGE: Mr. Mandel, good morning.

12 MR. JED MANDEL: Good morning. My name is
13 Jed Mandel, I am here today on behalf of the Engine
14 Manufacturers Association. Among EMA's members, the
15 principal manufacturers of the truck and bus engines
16 covered by today's proposal.

17 As we sit here today we are on the cusp, the
18 critical turning point, of something spectacular. We
19 have within our grasp the potential to dramatically
20 reduce the emissions of the most fuel efficient,
21 reliable, and durable source of motor power available
22 today, and the backbone of our nation's transportation
23 and delivery system.

24 The diesel engine can be as clean, if not
25 cleaner, than any other power source. It is capable of

1 meeting emission standards significantly below today's
2 levels. And let me remind everyone that the emissions
3 from today's diesel engines already have been reduced
4 by over 90 percent. Yet we recognize that more, much
5 more, in fact, can and should be done.

6 The key of course, is to greatly reduce the
7 sulfur content of diesel fuel. Future reductions in
8 diesel engine emissions are going to require much more
9 than new engine designs and technologies. As EPA
10 appropriately recognizes, future emission reductions
11 requires a systems approach involving the engine,
12 after-treatment, and fuel.

13 In a sense, the future of clean, low emitting
14 trucks and buses rests on a three-legged stool. And
15 the stool will fall without all the legs in place. One
16 of those legs, fuel quality, enables the technologies
17 necessary to make the other two legs stand.

18 Without removing essentially all sulfur from
19 diesel fuel, advanced NOx after-treatment devices will
20 not be feasible; advanced PM after-treatment will be
21 poisoned and engines will be exposed to excessive wear,
22 increased maintenance costs, and impaired durability.

23 I cannot emphasize enough the critical
24 importance of ultra-low sulfur fuel: It enables
25 substantial NOx and PM emission reductions; it provides

1 direct PM emissions reductions; and it provides
2 benefits not just from new engines, but from the entire
3 fleet of diesel fueled vehicles.

4 Improved diesel fuel also has a role in
5 responding to potential health effects concerns.

6 Ultra-low sulfur fuel lowers the total mass
7 of particulate from the entire fleet and enables the
8 use of known after-treatment technologies, such as
9 oxidation catalysts and catalyzed particulate filters,
10 which can reduce the organic and carbonaceous
11 components of PM emissions, can reduce hydrocarbon
12 emissions, and enables technologies to reduce NOx
13 which, in turn, will reduce secondary PM.

14 We applaud EPA for recognizing the critical
15 role of fuel sulphur. We strongly support the need for
16 a uniform, nationwide low-sulfur fuel standard with a
17 hard cap on sulphur content. Regional differences on
18 sulfur content will not allow the systems approach
19 necessary to meet EPA's very stringent NOx and PM
20 emission levels.

21 Further, a hard cap on sulfur is critical.
22 Averages simply will not work. They are difficult and
23 impractical to enforce. Moreover, the engine and
24 after-treatment legs of the stool must be assured of
25 never being exposed to high sulfur fuel.

1 In our view, 15 ppm does not go far enough.
2 And fuel improvements shouldn't only be limited to
3 trucks and buses. Non-road fuels also must be
4 improved.

5 We are aware of the various arguments raised
6 by the oil industry against improving fuel quality.
7 They don't want to reduce sulfur to even 15 ppm, let
8 alone to lower levels.

9 Nationwide ultra-low sulfur fuel can - no,
10 must - be achieved, and it can be done cost effectively
11 without undue economic harm to either the oil industry
12 or to the trucking industry, the users of both our
13 engines and the oil industry's fuels. We will provide
14 detailed comments on the need for ultra-low sulfur fuel
15 in our written submission.

16 So today we are enthusiastic we are
17 enthusiastic, excited, and hopeful about the future of
18 the diesel engine and our industry's ability to produce
19 reliable, durable, fuel efficient, high-performing
20 diesel engines that are also as clean or cleaner than
21 any other power source.

22 There are issues which would require a great
23 deal of work by the manufacturers and the Agency. But
24 it is no longer a question of "if." Give us fuel
25 improvements, sufficient time, compliance flexibility,

1 and testing certainty and tremendous emission reduction
2 can be achieved.

3 Thank you for your time.

4 MS. OGE: Thank you. Mr. Bertelsen, good
5 morning.

6 MR. BRUCE BERTELSEN: My name is Bruce
7 Bertelsen, and I'm executive director of the
8 Manufacturers of Emission Controls Association,
9 (MECA). MECA is pleased to submit testimony in support
10 of EPA's proposed heavy-duty engine and vehicle
11 standards and highway diesel sulfur control
12 requirements.

13 We believe an important opportunity exists to
14 significantly further reduce emissions from highway
15 heavy-duty diesel engines by utilizing an engineered
16 systems approach that incorporates and combines
17 advanced engine designs, advanced emission control
18 technology, and very low sulfur diesel fuel.

19 EPA's regulatory initiative recognizes the
20 importance of promoting this systems-type approach and
21 the Agency's proposal constitutes a carefully crafted
22 and balanced program. If the program is finalized, it
23 will result in substantial, cost-effective emission
24 reductions over the next several years. Indeed, EPA's
25 initiative will bring about the age of the truly clean

1 diesel engine.

2 By way of background, MECA is a nonprofit
3 association made up the world's leading manufacturers
4 of motor vehicle emission controls. Our member
5 companies have over 30 years of experience and a proven
6 track record in developing and commercializing exhaust
7 control technologies for motor vehicles.

8 Today, I will briefly summarize MECA's
9 position on EPA's proposed initiative. We have
10 extended discussions in the written statement we
11 submitted to you, and we will be submitting even more
12 extensive comments prior to the end of the comments
13 period.

14 In the interest of time, I would like to
15 focus on two issues today: First, the technological
16 feasibility of the diesel heavy-duty engine standards;
17 and second, the critical need for very low sulfur
18 diesel fuel to meet those standards.

19 First, with regard to the technical
20 feasibility, we believe the emission standards proposed
21 can be achieved in a cost-effective manner within the
22 lead time provided, if very low sulfur diesel fuel is
23 available.

24 EPA, in its proposal, identified two primary
25 candidate technologies for the meeting the proposed

1 emission limits -- catalyst-based diesel particulate
2 filters for PM control, and NOx adsorber technology for
3 oxides of nitrogen control.

4 Catalyst-based diesel particulate filters are
5 commercially available today. The only remaining
6 engineering effort is optimize the filter systems for
7 the specific engine to which they will be applied.

8 Worldwide there are over 20,000 engines
9 equipped with diesel filters. And it's important to
10 note that in Europe, or parts of Europe where diesel
11 fuel with a sulphur level below 10 ppm is available, a
12 number of filters are operating and have operated very,
13 very successfully with no problems. Some of those
14 vehicles operated hundreds of thousands of miles in
15 providing very, very significant PM reduction.

16 With regard to NOx adsorber technology, the
17 development and optimization of this technology is
18 progressing at a rapid rate. Our members fully expect
19 that with the availability of very low sulphur diesel
20 fuel, this technology will be commercialized in the
21 2007 time frame. This technology is way beyond the
22 chalkboard stages.

23 We'll discuss the rapid developments in this
24 area in more detail in our written statement, but I
25 would like to make a couple of comments.

1 First, our members believe there are no
2 barriers to the commercialization, the changes are
3 engineering in nature.

4 Secondly, these companies, with over 30 years
5 of experience in emission control technology, are
6 making the investment because they believe it will
7 become commercialized.

8 And, finally, I think it's important to point
9 out that when the EPA first began talking about the
10 possibility of setting the 15 ppm cap, these companies
11 significantly increased their development efforts with
12 regard to the need for very low sulfur fuel.

13 A couple of comments. On meeting the 0.2 NOx
14 standard and the 0.01 ppm standard over the full useful
15 life of a heavy-duty engine as certified over the
16 combined transient and steady-state certification test
17 procedures with not-to-exceed standards, as previously
18 stated, we believe these changes can be met and the
19 ultimate goal of a truly clean diesel engine is
20 possible. But, again, very low sulfur diesel fuel must
21 be available.

22 Our members believe with a sulphur cap of
23 15 ppm, emission control strategies can be developed to
24 meet the proposed emission limits. Specifically with a
25 15 ppm cap, our members are extremely confident that

1 all catalyst-based filter technologies will be designed
2 to meet the level of 0.01 ppm, and that NOx absorber
3 technology will be optimized. NOx standards at levels
4 above 15 ppm, we doubt the 0.2 NOx and 0.01 ppm
5 standard would be feasible.

6 In closing, I would like to again commend EPA
7 for a truly remarkable and forward thinking proposal.
8 We recognize that the proposed highway heavy-duty
9 engine and vehicle standards present real engineering
10 challenges, but we also believe that these changes can
11 and will be met.

12 As I mentioned earlier, the key is to employ
13 a systems approach. And from our standpoint, our
14 industry is committed to do our part to ensure that if
15 the proposed standards are adopted and the diesel
16 sulfur limits are implemented, the desired reductions
17 will be achieved. Thank you very much.

18 MS. OGE: I'd like to introduce Tom Appelt,
19 from Corning, Incorporated. Welcome, good morning.
20 Please state your name.

21 MR. THOMAS APPELT: My name is Thomas Appelt,
22 I'm the business director, mobile emission products, at
23 Corning, Incorporated. Corning appreciates the
24 opportunity to testify at today's hearing, and to fully
25 support the testimony of the Manufacturers of Emission

1 Controls Association.

2 In the early 1970s Corning, Incorporated
3 joined the campaign for cleaner air when it developed
4 an economical, high-performance cellular ceramic
5 substrate, and a few years later diesel particulate
6 filter that are now standards for mobile emission
7 control devices. We continue to improve upon these
8 industry standards with new technologies to enhance the
9 product performance and manufacturing "know how" which
10 will support the increase in demand in the coming
11 years.

12 Corning, Incorporated firmly believes that
13 the emission challenges set forth by the EPA proposal
14 can be met in the time frame given. But low sulfur
15 diesel fuel, no higher than 15 ppm cap, must be part of
16 the regulatory program as it is the enabler in meeting
17 the proposed standards. Thank you very much.

18 MS. OGE: I have a question for all of the
19 panel members, and I would like to start with
20 Mr. Frank. And obviously the issue, one of the most
21 challenging ones that we're dealing with in this
22 regulatory program, is the level of sulfur in diesel.

23 In our proposal, we have proposed a
24 97 percent sulfur reduction in diesel in order to
25 achieve a 95 percent reduction in NOx and a 90 percent

1 reduction in particulates. We also have analyzed the
2 proposal that the oil industry has put on the table,
3 that is 90 percent reduction of diesel sulfur in fuel,
4 and our conclusion is that if you reduce sulfur by
5 90 percent, you will reduce nitrogen oxides and
6 particulate emissions only by 20 percent. It's a
7 significant big difference.

8 Mr. Frank, in your testimony you testified
9 that the oil industry proposal will achieve an
10 80 percent reduction in NOx. I don't believe you have
11 testified what reductions will be for PM. I would like
12 to ask if you can tell us how did your industry, or
13 your company, arrive to that conclusion?

14 And I also would like to ask the engine
15 representatives, and maybe the catalyst technology
16 representatives, to speak to that.

17 How far do you think we can go in reducing
18 NOx and PM if we were to adopt a 90 percent sulfur
19 reduction in diesel?

20 But I will start first with Mr. Frank.

21 MR. FRANK: I think that the important point
22 here is that we do not see any beneficial qualities of
23 sulfur. But that the practicality of being able to
24 take down sulfur levels to the extreme levels that
25 we're talking about will not exist within the refining

1 business and that there will be significant shortages
2 of diesel fuel supplies available within the United
3 States.

4 I think that that is important, given the
5 fact that the situation we're facing with the gasoline
6 initiative today, where nobody understands the high
7 prices. But there is a reduction in the amount of
8 gasoline available under the EPA guidelines that have
9 been in effect that have caused a price response in the
10 marketplace. And a similar thing, I think, will happen
11 with diesel fuels.

12 Another important consideration is that I
13 think that these NOx adsorbers, even while it's been
14 testified today that they think that they can develop
15 the technology by 2006, they do not exist today that
16 can operate with any sulfur level above zero. And zero
17 is impractical to get to.

18 I think those are important considerations
19 that are driving what is practical and achievable in
20 the time frame. And then again, the phase-in of
21 gradual sulfur reductions over three-year time frame in
22 some areas just won't work, and that's what the EPA's
23 proposing there.

24 So I think that a lot of what's being
25 proposed and advocated are wishful thinking and not

1 being able to recognize what the real world is.

2 MS. OGE: Mr. Frank, we would definitely
3 appreciate it if you have any supporting documentation
4 that you can provide to the agency for the record how
5 your company believes that a 90 percent reduction in
6 sulfur and fuel will achieve 80 percent reduction in
7 emissions. Again, our position on that is that it's
8 only 20 percent reductions. It's a very different set
9 of numbers that we're dealing with.

10 MR. FRANK: We will submit that
11 documentation.

12 MS. OGE: I would like to ask the engine
13 expert and the after-treatment expert to speak to that
14 effect. What do you think can be done with a
15 90 percent reduction in diesel sulphur?

16 MR. MANDEL: Sulphur is a poison, and it must
17 be removed from the fuel. It's particularly important
18 to remove it in the context of this rule, because that
19 enables the after-treatment technologies. That is the
20 systems approach to what EPA's proposing, and I think
21 that's the specific benefits of the package you put
22 together.

23 So without getting to the ultra-low levels of
24 sulfur that we are recommending, we are not going to be
25 able to enable the technologies that get to those very

1 low levels that the Agency is seeking.

2 We have not calculated, although we will try
3 calculate whether we think without after-treatment we
4 can get additional NOx and PM benefits along the lines
5 of 20 percent. (Inaudible) -- so far reducing
6 emissions by 90 percent.

7 But to get the additional reduction, we need
8 after-treatment. And after-treatment needs no sulfur
9 in the fuel quality.

10 MS. OGE: Thank you.

11 MR. BERTELSEN: I have to say over the years
12 many times I have disagreed and sometimes I have
13 agreed, but I to have to say on this point we
14 completely agree with the Engine Manufacturers.

15 Very low sulfur fuel is absolutely
16 essential. A 50 ppm sulfur fuel, I can tell you that
17 if that level is set, work on NOx adsorber technology
18 will cease. Obviously we would prefer to operate in a
19 sulfur free environment, but what we are seeing now is
20 that it is possible to apply this technology.

21 50 ppm, unfortunately, is out of the
22 question. And I truly believe that work on that
23 technology will cease for filter technology. Again, we
24 feel it's very, very important to have the very low
25 sulfur fuel to have this technology completely

1 effective and to ensure the ability of (inaudible).

2 We will provide additional comments, but I
3 hope that will provide you a sense of where we are.

4 MR. BECKER: Bill Becker with STAPPA and
5 ALAPCO. It's a very good question, Marge, because the
6 difference in NOx reduction between the oil industry
7 proposal and the EPA proposal, if it's 20 percent,
8 30 percent, or 60 percent, will have to be made up
9 someplace else.

10 Air pollution, as we all know, is a zero sum
11 game. And to the extent that the oil industry proposal
12 goes into effect, the serious gap between the
13 effectiveness of that proposal versus EPA's proposal,
14 will have to be made up on the back of some other
15 sector of the economy, including mom and pop
16 businesses.

17 So while the oil industry is suggesting that
18 there is an economic effect on their operations, there
19 will be a much more serious effect on the operations of
20 mom and pop businesses around the county, who will be
21 required by necessity to make up that difference. And
22 that's an important issue to governors and state and
23 local regulators around the country.

24 MR. KASSEL: Richard Kassel from NRDC, just
25 very briefly. I defer to EMA and MECA on the

1 engineering that underlies these products that are
2 being developed. But I think it's important to come
3 back to the health issue -- the asthma, the cancer, the
4 other health impacts that we've heard about and will
5 hear about today -- and realize that the lowest
6 possible sulfur will create the greatest possible
7 emission reductions. And by virtue of that, the
8 greatest possible health benefits.

9 The world is already developing moving
10 towards a consensus that low-sulfur diesel has to move
11 beyond. It needs to move to perhaps a 10 part per
12 million cap, as Sweden is doing, as the European
13 community is discussing. (Inaudible.)

14 That's where -- if we are to lead in terms of
15 cleaning up diesels and providing maximum health
16 benefits -- those cleaner vehicles, that's where we
17 need to go to. And I think that we've heard very
18 promising testimony from the engineering side on that.

19 MS. OGE: I would like to thank all of the
20 panel members for coming here to testify in this very
21 important proposal. Thank you very much.

22 I would like to ask for the following -- I
23 guess we have members of the public and also we have
24 different organizations. David Levy, Mr. Charles
25 Franceshini, Ms. Alice McIntosh, Mr. Corey Bearak, I

1 believe, Samara Swanston, and Mr. Alan G. Hevesi,
2 please come forward.

3 MR. DAVID LEVY: Good morning. My name is
4 David Levy, and I am an independent environmental
5 activist and political consultant from Staten Island,
6 New York.

7 I'm here today for two reasons: I'm very
8 excited by the EPA's proposed new rules, and I am very
9 concerned about the lobbying blitz that I expect from
10 the oil industry to have those rules rolled back.

11 I got involved in air pollution issues for
12 the following reason: I used the bicycle to work in
13 Manhattan, I don't bicycle any more. If you have ever
14 bicycled, you move as a city bus that (inaudible). In
15 addition to the usual comments of belching of delivery
16 trucks, you find yourself blasted with hot putrid
17 exhaust, only to have this happen all over again.

18 I used to get behind buses all the time, I
19 used to combine my cycling with my exercise routine and
20 commuting, but I stopped because I read that one should
21 not exercise in polluted air. What's the cost to me?
22 Commuting costs. I have to work out separately. I
23 lose about three hours a week.

24 I also would like to add regarding bicycling,
25 I hesitated purporting go that comment because the

1 current state of affairs in this country is that
2 bicyclists are virtually laughed at on the city
3 streets. And this eventually is going to have to
4 change if we're going to have a sustainable life from
5 now and on and into the next several centuries. So
6 cycling is not a minor consideration, it's going to be
7 become a very major consideration over the next few
8 years. Especially as global warming is becoming a
9 major issue.

10 Finally, as I return to home on Staten Island
11 Ferry and see (inaudible) I think: "We don't have to
12 live this way."

13 I won't go into detail on the myriad
14 advantages of the proposed rules, since other advocates
15 have and will do that; however, I will just touch on
16 these rules are the best initiative for reducing
17 vehicle pollution since lead was removed from gas in
18 the 1970s. That's over 25 years ago. And it's none
19 too soon. That would be tantamount to removing
20 (inaudible) at a cost of only 3 to 4 cents a gallon.
21 Is it worth it? I think so.

22 Residents of New York are assaulted every day
23 with toxic fumes that causes lung cancer, asthma, and
24 other respiratory diseases. (Inaudible) I don't see
25 why we to have wait five years in order to see ultra

1 low-sulfur fuel come on the market.

2 And, lastly, given that there are currently
3 1 million trucks on the road that are specifically
4 manufactured to meet the (inaudible.), I urge the EPA
5 to require ongoing emissions testing. That's not
6 testing out of factory, but ongoing emission testing to
7 ensure that this sort of criminal behavior never
8 happens again.

9 Regarding negative health impact you will
10 hear several witnesses showing through scientific
11 studies (inaudible). However, you will not hear
12 defenders of the status quo demonstrating through
13 scientific studies how harmless diesel pollution is.
14 Why is that?

15 What happened to the precautionary
16 principle? The principle states that a substance
17 should not be introduced into common use until it has
18 been proven safe. Why does the burden of proof always
19 fall on the public?

20 Humans have introduced over 200,000 new
21 chemical compounds into the environment in the last two
22 centuries. If the precautionary principle had been
23 used, we would have avoided disasters like (inaudible),
24 mercury poisoning, Love Canal, and tens of thousands
25 early deaths due to pollution annually.

1 According to the US (inaudible) educations
2 funds (inaudible). The oil industry contributed to
3 congressional candidates. In addition, the oil
4 industry devotes dollars to paid lobbyists or former
5 elected officials who know the ins and outs of
6 governments and of the oil industry. If it hasn't
7 already done so, it will probably (inaudible) a
8 publicity blitz to convince the America public to think
9 jobs will be lost (inaudible.)

10 Over regulation. What do we citizens have to
11 counteract that? Very little. We have the public
12 advocacy groups like the American Lung Association, the
13 PIRGs, environmental justice groups, etcetera. We
14 (inaudible) while the journalists listen to experts on
15 the industry payroll.

16 The only people standing between us and a
17 continuation of dirty air, respiratory distress, and
18 environmental degradation are (inaudible) as 2000
19 protesters showed last week in Calgary. People are
20 tired of watching the oil industry manipulate the
21 political process to the detriment of environmental and
22 public health. I don't bicycle any more. Why? Too
23 much danger of accidents and too much pollution.

24 Please pass the proposed rules on a faster
25 schedule so I can ride my bicycle, and so that people

1 yearning to breathe free can finally do so. This is
2 only a step in making our cities livable again, but a
3 very significant one. Thank you.

4 MS. OGE: Thank you. Mr. Franceshini.

5 MR. CHARLES FRANCESHINI: I'm a resident of
6 Staten Island. I live approximately 200 yards from the
7 MTA bus depot in Staten Island. I began fighting with
8 them for idling their buses for years. During the
9 summer and during the winter you can't even walk
10 outside the door, because they continued to idle the
11 buses. I have a 14-month old grandson, and he's
12 asthmatic. You know. And I called the DEP, the EPA,
13 and they laugh at me: You're going after the MTA?

14 This is what happens with them. You have
15 just one big circle. I wrote to the government, to the
16 Mayor, to the borough president -- and nothing. Now,
17 they are extending the bus depot. Now they're going to
18 be ten feet away from me. When is this going to stop?
19 When they kill everybody in the neighborhood?

20 I have been fed up with them because I say to
21 them, I says: All the money that you spend on idling
22 the buses during the winter time and during the summer,
23 you could do something about this, about keeping the
24 buses warm. You know? I could have been paying the
25 whole Staten Island -- maybe the fuel bill for all of

1 Staten Island.

2 This is only one location. I notice that
3 other people in Bensonhurst have the same problem, you
4 know. And they they're looking to raise fares to buy
5 more diesel. Thank you very much.

6 MS. OGE: Alice McIntosh.

7 MS. ALICE MCINTOSH: I'm Alice McIntosh, and
8 I am public health education consultant here in New
9 York City, and currently doing some work with the
10 Pulmonary Division at Harlem Hospital as their senior
11 public health educator.

12 I wanted to say a couple of things about what
13 is proposed today. With increasing efforts to improve
14 the quality of life for patients suffering with chronic
15 and often debilitating diseases like asthma,
16 determining health status must go beyond diagnosing and
17 treating disease.

18 Patients want to enhance the quality of care
19 they receive, as well as the quality of their lives, as
20 they cope with their illness. We have learned that
21 asthma presents special problems for its sufferers and
22 their ability to self manage.

23 As health care providers, whether we are
24 health education specialists, physicians, nurses, or
25 pharmacists, we must be particularly creative in our

1 approaches to care. We work very, very hard to treat
2 and educate our patients, but how can we increase
3 patient self-efficacy and compel our patients to
4 self-manage when we send them to homes with mold,
5 mildew, peeling lead paint, and streets cluttered with
6 exhaust from diesel engines knowing that these and
7 other factors exacerbate the afflictions?

8 If EPA's program is implemented as proposed,
9 diesel trucks and buses will be 95 percent cleaner,
10 particulate levels 95 percent below current levels,
11 nitrogen oxides 95 percent below current levels, and
12 sulphur content reduced by 95 percent.

13 The impact of this rule will be far reaching
14 for cleaner air and for the health of residents in New
15 York City, particularly those suffering with asthma,
16 thank you.

17 MS. OGE: Thank you.

18 MR. COREY BEARAK: My name is Corey Bearak,
19 and I work as legislative counsel for Bronx Borough
20 President Ferrer. Thank you for this opportunity to
21 comment on the proposed rules.

22 Last Thursday the borough president unveiled
23 a program to promote the use of clean air vehicles.
24 This program required the use of government purchasing
25 power to develop (inaudible) for our school buses, MTA,

1 and taxis to operate on clean air technology.

2 The borough president urges the US to adopt
3 the most stringent rules rather than a phase-in to
4 2010, and full implementation no later than 2007. That
5 adoption will help drive local, state, and regional
6 efforts, including the borough president's ten-point
7 strategic clean air plan. (inaudible).

8 The government must not allow (inaudible) and
9 exacerbate the symptoms of asthma. As a former chair
10 of the health committee of the city, I (inaudible).
11 Hospitalization just under 10,000 in the New York City
12 and (inaudible).

13 We must seize the opportunity to make a
14 difference. The borough president also urges
15 (inaudible) mandate city and state to convert to the
16 (inaudible reading from the borough president's plan).
17 We are also pleased that the National Resources Defense
18 Counsel (inaudible).

19 The key point to make is that by having these
20 stringent rules, it helps drive the local plans and
21 local initiative to move forward to get to clean air at
22 the earliest possible stages, and that would make the
23 biggest difference.

24 MS. OGE: Thank you. Good morning.

25 MS. NANCY ANDERSON: My name is Nancy

1 Anderson, I'm the senior environmental advisor to the
2 New York Comptroller, Alan G. Hevesi.

3 I am pleased to be here on the comptroller's
4 behalf to express his support for the rule proposed by
5 the United States Environmental Protection Agency that
6 would lower the permissible level of sulfur in diesel
7 fuel by 97 percent in 2006.

8 Let me take this opportunity to applaud the
9 EPA for proposing a rule of such importance to all
10 Americans, and also let me congratulate the American
11 Lung Association, West Harlem WE ACT, the Natural
12 Resources Defense council, and other groups for their
13 tireless efforts to solve the problems of diesel
14 pollution.

15 New York City, connected directly to the
16 mainland of the United States only in the borough of
17 the Bronx, is particularly reliant on diesel trucks for
18 the movement of goods and the export of solid wastes
19 because it lacks convenient rail-freight links.

20 Although air pollution coming from cars,
21 factories, and incinerators has been substantially
22 reduced since the 1970s, air pollution coming from
23 diesel-powered engines and distant coal burning power
24 plants remains a chronic problem. Adding to this
25 chronic problem is the fact that our robust national

1 economy is accompanied by more vehicle miles traveled
2 every year. In turn, this means more diesel fuel is
3 being consumed, and this means more air pollution and
4 public health problems.

5 Recently, increasing sales of popular SUVs
6 has introduced another source of microscopic
7 particulates and nitrogen oxides to our environment and
8 our lungs. The combination of all these factors in a
9 city dominated by urban canyons that trap air
10 pollution, helps explain why New York City has been in
11 chronic non-attainment for regulated particulate
12 standards under the Clean Air Act.

13 Of particular significance is the New York
14 State Department of Environmental Conservation estimate
15 that over half of the breathing level particulate
16 matter in Manhattan comes from diesel tailpipes.

17 The rule under discussion here today will
18 improve the lives of 8 million New Yorkers by enabling
19 them to breath easier and be healthier if it is
20 adopted.

21 The EPA is correct to focus its efforts on
22 both diesel fuel used by heavy-duty vehicles and the
23 vehicle engines themselves. By requiring the
24 97 percent reduction in sulfur and diesel fuel from 500
25 parts per million down to 15 ppm, smog-causing nitrogen

1 oxides will be cut by 95 percent and particulates would
2 be cut by 90 percent, as has already been testified
3 to.

4 These dramatic cuts in pollution can only be
5 achieved through EPA's two-pronged approach, because
6 the pollution control equipment that will be installed
7 on diesel engines can properly function only if the
8 sulfur is removed from that diesel fuel.

9 What will the adoption of these proposed
10 rules mean in human health terms for New Yorkers?

11 According to the New York City Health
12 Department's publication in 1999, "Asthma Facts,"
13 asthma is the leading cause of hospitalization in New
14 York City children aged 0 to 14.

15 In 1997 14,780 children were hospitalized for
16 this disease. This translates into an asthma
17 hospitalization rate of 10.2 per 1000 for city kids 0
18 to 14 in comparison to the national rate of 3.7 for the
19 same age group. That's almost three times as high.
20 The hospitalization rate for New Yorkers of all ages
21 during 1997, 33,348 admissions for asthma were
22 recorded.

23 The Health Department has reported that
24 hospitalizations for asthma are strongly correlated
25 with socioeconomic status. During 1997 the asthma

1 hospitalization for children 0 to 14 from Manhattan's
2 Central Harlem/Morningside Heights community was
3 28.8 per thousand. In Staten Island's
4 South-Beach/Tottenville, the rate was much lower, 2.4
5 per thousand.

6 Many of the city's low income neighborhoods
7 are located proximate to major industrial hubs, such as
8 the Hunts Point area in the South Bronx. Hunts Point
9 is home to the city's central produce market as well as
10 many waste transfer stations, and both industries are
11 truck reliant. Adopting the low-sulfur diesel
12 regulations would greatly benefit such communities.

13 While science cannot tell us that asthma will
14 be eliminated when airborne particulate pollution is
15 eliminated, science does give us reason to believe that
16 the scourge of asthma can be controlled. According to
17 the National Jewish and Medical Research Center in
18 Denver, people with asthma suffer from chronic
19 inflammation of their airways; therefore, by definition
20 they are particularly sensitive to such airborne
21 irritants that make asthma worse.

22 Both fine particulates and oxides of nitrogen
23 are of concern here. The American Lung Association
24 describes particulate matter as a combination of fine
25 solids and aerosols. Particles of special pulmonary

1 concern are the very small ones, those less than 2.5
2 microns in diameter.

3 Fine particulates are easily inhaled deep
4 into the lungs, where they can be absorbed into the
5 bloodstream or remain embedded in the lungs for a long
6 time. Therefore, they pose particular health threats
7 to people with asthma and other chronic pulmonary lung
8 diseases, including bronchitis and emphysema. Recent
9 research also links exposure to premature death in the
10 elderly, and for those with preexisting lung and heart
11 disease.

12 In conclusion, I urge the Environmental
13 Protection Agency to adopt this proposed rule requiring
14 a 97 percent reduction of sulfur in diesel fuel by
15 2006; it's a lifesaver.

16 MS. OGE: Thank you. Mr. Swanston.

17 MR. SAMARA SWANSTON: Thank you. My name is
18 Samara Swanston, I'm the Executive Director of the
19 Watchperson Project of Greenpoint/Williamsburg. I'm
20 also the (inaudible) and vice chair of the New York
21 City group of the Sierra Club.

22 Greenpoint and Williamsburg have high rates
23 of environmental disease, including cancer and asthma
24 and low birth rate. Babies in particular. We have
25 (inaudible) elevated rates of cancer, including child

1 leukemia. We have an asthma rate that is triple the
2 national average, and high rates of low birth rate.
3 Interestingly, we have high numbers of people in their
4 fifties dying of lung cancer who never smoked
5 cigarettes.

6 Greenpoint and Williamsburg also have a
7 significant number of environmental facilities that
8 emit air pollution. We have 12 major sources of air
9 pollution. We have (inaudible) sources of air
10 pollution, and we have 22 waste transfer stations,
11 which is half the permitted capacity of the City of New
12 York. Each and every one of those served by diesel
13 truck fleets.

14 We support the new low-sulfur diesel fuel
15 because we believe it's more protective of the health
16 of children. Public health studies show that heavy
17 truck traffic exacerbates asthma. (Inaudible) in the
18 city of New York asthma also a killer and I had two
19 asthma deaths in the family. My daughter has asthma
20 now.

21 Public health studies also show that the
22 fetal growth is impeded if exposed to particulate
23 matter during pregnancy. And, of course, we know that
24 the current diesel (inaudible.) You simply cannot
25 drive through the streets of Greenpoint and

1 Williamsburg without being either stuck behind trucks
2 that are packing or making a delivery, or next to an
3 idling truck.

4 And we call on the EPA to visit our community
5 so that they can see the impact of diesel emissions on
6 our communities.

7 We applaud the new standards, because we
8 believe it's a step toward protecting the health of
9 children and adults in Greenpoint, Williamsburg, and
10 statewide. Thank you very much.

11 MS. OGE: I would like to thank you for
12 taking the time to come in and testify this morning.
13 Thank you very much.

14 Mr. Shin, good morning. We'll start with
15 you.

16 MR. ROBERT SHINN: I am Bob Shinn, the
17 Commissioner of the New York Department of
18 Environmental Protection. I would like to thank the US
19 EPA for the opportunity to comment on heavy-duty engine
20 and vehicle standards and highway diesel fuel sulfur
21 control proposal.

22 I am pleased to support the agency's efforts,
23 which are most critical to the health and welfare of
24 our residents. This EPA proposal which will establish
25 new emission standards for the model year 2007 and

1 later heavy-duty diesel and gasoline engines, also
2 provides for low-sulfur diesel fuel with a cap of 15
3 parts per million to enable new engine technology to
4 meet standards. (Inaudible) proposal measures are
5 critical not for attainment, than for the maintenance
6 of the National Air Quality Standards for ozone.

7 This is especially important for the New
8 York/New Jersey air quality control region. New York
9 and New Jersey will have (inaudible) just to attain the
10 standard prior to the target year 2007.

11 Even more daunting for us will be the task of
12 the meeting the more stringent health based eight-hour
13 standards. As you all are aware, this new standard is
14 currently scheduled for review after the US sent
15 (inaudible) to EPA for further justification. I am
16 optimistic that when the dust settles, good judgement
17 will prevail.

18 We must act with the expectation that we will
19 need to comply with such a health based standard in the
20 near future. (Inaudible) to protect public health,
21 which means the air in this region will continue to be
22 unhealthy.

23 Also of concern to us in the region is fine
24 particulate. This proposal will clearly provide a
25 major impact on this pollutant which, in the past and

1 (inaudible) which directly impinges upon the public's
2 perception of New Jersey (inaudible) that many areas of
3 the state, particularly urban areas, will be unable to
4 meet the PM standard. (inaudible) as part of its daily
5 care quality index.

6 Since May 1st we have recorded eight days
7 that exceeded code for PM 2.5. That is eight days when
8 fine particulates reached unhealthy levels for the same
9 (inaudible) which ozone registered as code orange or
10 code red.

11 (Inaudible) we expect to see reductions,
12 thanks to New Jersey's enhanced inspection and
13 maintenance program for heavy-duty diesel engines.
14 This program alone cannot adequately address the
15 problem. The EPA's efforts in this regard are thus
16 critical to the success (inaudible) and ozone reduction
17 strategy.

18 We also share EPA's concerns with diesel
19 exhaust as a likely human carcinogen, which also causes
20 respiratory and cardiovascular disease. We in New
21 Jersey are concerned with reducing (inaudible) emit
22 into our air. EPA's soon-to-be-released 1996 National
23 Air Toxic Assessment is likely to show that almost a
24 third of the 34 most critical air (inaudible) in New
25 Jersey are generated by on-road sources.

1 This proposal should make important strides
2 in addressing this pollution from on-road sources.

3 Just as critical are non-road emissions.
4 (inaudible) EPA's announced intention to pursue further
5 controls for these engines in the coming years is
6 vital, and we will be rigorous advocates.

7 We have long known that New Jersey is
8 responsible for a significant portion of the very air
9 pollution we are seeking to control with today's
10 proposal. In fact, the same 1996 inventory is likely
11 to show that (inaudible) for more than half or
12 52 percent of the total statewide air toxins. As we
13 continue to reduce emissions from highway sources, the
14 percentage contributed by non-road engines can be
15 expected to grow.

16 To be sure, the states have not be been idle
17 in addressing this issue. For example, beyond our own
18 emission checks from heavy-duty trucks and buses, New
19 Jersey is actively contributing to regional pollution
20 reductions projects. (Inaudible) fleet of heavy-duty
21 vehicle for the Department of Transportation in New
22 Jersey will be retrofitting up to four thousand
23 (inaudible) with PM oxidation catalyst.

24 Secondly, New Jersey Transit plans to test
25 new diesel buses using advanced (inaudible). New

1 Jersey Transit also has begun a (inaudible) which
2 success will also (inaudible) the retrofit controls.

3 Finally, on a regional level, we will be
4 working with necessary come to test about 20 heavy-duty
5 trucks which have been retrofitted with (inaudible).
6 This effort is part of the Department of Justice's
7 efforts to help remedy excess NOx emissions caused by
8 manufacturer's use of so-called "defeat devices." In
9 the proposal, the EPA asks for comments on a number of
10 which are considered, but not included, in the proposed
11 program design. The alternative option included a
12 phase-in of the low sulphur content cap and an average
13 sulfur standard of 25 parts per million.

14 Because our region depends on the adoption of
15 the most stringent program designs, we support EPA's
16 decision to (inaudible) any phase-in of the low-sulfur
17 standards, for example, will jeopardize the
18 effectiveness of the new advanced control technology,
19 which must rely on low-sulfur fuels.

20 Finally, we have long recognized the
21 importance of implementing not just state, but regional
22 and national ozone sources. New Jersey has worked
23 actively with (inaudible) by the ozone transport
24 assessment groups to come up with regional solutions to
25 ozone and NOx. Transport motor vehicles (inaudible),

1 which makes localized control measures of limited
2 effectiveness.

3 Therefore, I strongly support this proposal
4 because it provides a national fuel standard. Early
5 this morning as a member of OTC, I wrote a
6 (inaudible). The OTC declared its support on the
7 proposed cap of sulfur in on-road diesel of 15 parts
8 per million. The OTC urged EPA to finalize rules
9 during the 2001 period to subject non-road fuel to the
10 same standards. (Inaudible) urge EPA to (inaudible),
11 so that highway and non-road diesel operate as cleanly
12 in reality.

13 Finally, the OTC resolved to continue to
14 examine the need for more timely and more aggressive
15 implementation as may be necessary to meet National Air
16 Quality Standards. Thank you again for this
17 opportunity to comment. We look forward to continuing
18 with (inaudible) efforts.

19 MS. OGE: Thank you very much. I understand
20 that there are two members of the public that are
21 interested in testifying prior to 12 o'clock, and I
22 will ask them to come up here.

23 MR. RED CAVANEY: Thank you members of the
24 panel. I am Red Cavaney, president and CEO of American
25 Petroleum Institute, which represents all sectors of

1 America's oil and national gas industry.

2 Thank you for the opportunity to testify on
3 an issue of such importance to our members, to US
4 consumers, and to our nation. I also want to express
5 our appreciation for your willingness to meet with us
6 earlier during your planning and preparation of the
7 diesel sulfur proposal. Sound regulations are
8 difficult without an exchange of information between
9 government and industry, and we hope this can
10 continue.

11 EPA and our industry agree that the sulfur
12 content in diesel fuel must be substantially reduced
13 and, as you know, API proposed a 90 percent reduction
14 last winter. Reducing sulfur in both diesel fuel and
15 gasoline is key in reducing vehicle emissions.

16 Your latest air quality report shows that
17 emission reductions from cleaner vehicles powered by
18 cleaner fuels made up more than two-thirds of the total
19 national decline in criteria pollutant emissions
20 between 1970 and 1998. This is the single most
21 important reason why Americans today are breathing
22 cleaner air and experiencing fewer health concerns
23 related to air pollution.

24 As the industry responsible for fueling all
25 of our nation's consumers, we are concerned that the

1 Agency's diesel sulfur proposal -- which would reduce
2 sulfur 97 percent -- risks too much by going too far,
3 too fast we. We believe EPA's proposed rule will
4 degrees the total volume of diesel fuel produced,
5 falling short of satisfying clearly rising consumer
6 demand. The national Petroleum Council, in a "soon to
7 be released" report on behalf of the US Department of
8 Energy, calls the risk of inadequate supplies
9 "significant."

10 Consumers need not face this risk. By
11 adopting the 90 percent reduction we have recommended,
12 the chances of disrupting diesel supplies would be
13 greatly lessened, yet emissions would still be cut
14 substantially. We believe that a 90 percent reduction
15 in sulfur is right. That is the amount of reduction
16 the agency is requiring of gasoline sulfur -- and how
17 much EPA said diesel sulfur content should be lowered
18 in a press release last October.

19 Were EPA to disregard our 90 percentage
20 reduction initiative and go forward with its rule as
21 proposed, a number of refiners will certainly elect to
22 make the requisite, considerable investment to meet the
23 rule. However, this is not the entire picture.

24 Total US diesel fuel supply and demand are in
25 reasonable balance. For investment return levels

1 and/or other reasons, a number of refiners will likely
2 not undertake EPA's costly sulphur reductions, choosing
3 instead to make other products. Yet other companies
4 will end up producing less of the new diesel than
5 current diesel capacity. All of these actions will
6 have the effect of reducing overall diesel capacity and
7 creating supply/demand imbalances. Upward cost
8 pressures on supply will be considerable.

9 Making the ultra low-sulfur diesel that EPA
10 proposes will require huge refinery investments, closer
11 to \$8 billion than the \$4 billion the agency has
12 estimated. The difference can be explained by the
13 failure of EPA to adequately take into account the
14 difficulty and expenses of removing sulfur from all of
15 the refinery streams that will have to be used in order
16 to make ultra low-sulfur diesel.

17 Additionally, distribution problems are
18 likely to affect supply. Refiners will have to move
19 ultra low-sulfur diesel to market using common
20 pipelines and storage facilities, risking contamination
21 of some of the volumes from the sulphur residues of the
22 other fuels having to utilize those same facilities.
23 This may force costly reprocessing or downgrading of
24 portions of each batch of ultra low-sulfur diesel,
25 further decreasing available supplies.

1 The majority of the America's goods move by
2 truck. We estimate that EPA's proposal could add
3 \$2,600 to the cost of a trucker's annual operations in
4 higher diesel fuel costs. This does not include the
5 additional cost of emission control hardware, which
6 could be several thousand dollars per truck; nor does
7 it factor in other time and inconvenience costs
8 associated with less readily available diesel supply.

9 Higher costs could also hurt others,
10 including businesses with small fleets of vehicles like
11 bakeries and nurseries and the like, and, ultimately,
12 all consumers.

13 Has the agency considered how consumers and
14 others might be protected, if supply and cost
15 dislocations come to pass? A waiver certainly wouldn't
16 be practical, because it would expose new trucks to
17 higher sulfur diesel, which, according to EPA's own
18 assessment, could damage the emission control equipment
19 needed to meet the proposed diesel exhaust standards.
20 In the near term, increase imports probably wouldn't be
21 able to fill big gaps, because few foreign refiners
22 will be making the same diesel. And foreign producers
23 also have their own capacity constraints. Eventually,
24 US or foreign refiners may well expand capacity to
25 provide additional supplies, but this would require

1 installation of new equipment, a process that could
2 take years.

3 No one can predict with 100 percent
4 confidence what might happen, but given the volatility
5 we have seen in the fuels markets this year, are the
6 risks described worth taking? Are the small or
7 nonexistent additional benefits EPA's proposal is
8 likely to achieve worth this gamble?

9 According to a study by a well-known
10 automotive engineering consulting firm, the most
11 advanced vehicle emissions reduction technology that we
12 know will work reduces emissions about the same with
13 either fuel. EPA hopes that a different technology
14 will be used, but it takes the facility to support this
15 belief. According to the agency, this technology has
16 not advanced to the field trial stage. And, in
17 preliminary laboratory tests sponsored by industry and
18 government, it has not cut emissions to the levels EPA
19 wants no matter how much sulphur was reduced.

20 In short, there's a strong likelihood that
21 going to the 90 percent reduction and the latest SCR
22 technology would provide essentially all of the air
23 quality benefits that are possible, save billions of
24 dollars for consumers in the process, and greatly
25 decrease the risks of a considerable diesel supply

1 shortfall.

2 We encourage EPA to carefully consider the
3 concerns we have raised today. Cleaner air demands
4 that we reduce diesel sulfur, and we have volunteered
5 to do so by a significant amount -- 90 percent. Too
6 severe a reduction could result in unintended negative
7 consequences for consumers and for the industry. With
8 reasonable adjustments to EPA's proposed rule, we
9 believe these can be minimized.

10 Providing a dependable supply of fuel at
11 affordable prices is what consumers want. Working
12 constructively together to address the full range of
13 potential impacts on consumers, the agency, and
14 industry can provide both significant emissions
15 reductions and a reliable fuel supply. Consumers
16 deserve no less than full-faith efforts by each and
17 every one of us. Thank you.

18 MS. OGE: Thank you. Mr. Billings, good
19 afternoon.

20 MR. PAUL BILLINGS: Good afternoon. My name
21 is Paul Billings, I'm the assistant vice president of
22 Government Relations for the American Lung
23 Association.

24 The American Lung Association is pleased to
25 support the low-sulfur fuel and heavy-duty vehicle

1 rulemaking. We strongly support the low-sulfur diesel
2 provisions and view the cap of 15 ppm on diesel sulfur
3 as the critical element of the rule.

4 I want to highlight the urgent public health
5 need to clean up diesel fuel and heavy-duty vehicles,
6 and show the overwhelming public support for this
7 program as demonstrated by a recent public opinion
8 poll. In addition, I want to suggest to the EPA how
9 accelerating the implementation would enhance its
10 efficacy.

11 The most critical element is the 97 percent
12 reduction of sulfur. We commend EPA for proposing this
13 level. EPA must cap the sulfur in diesel fuel at no
14 higher than 15 ppm, and must fully implement the fuel
15 sulfur rule no later than mid-2006, nationwide. No two
16 fuels: One fuel nationwide.

17 Cleaning up diesel fuel and heavy-duty
18 vehicles is necessary because the air is dirty. Diesel
19 engines contribute considerable pollution to our
20 continuing air pollution problems. Even with more
21 stringent heavy-duty highway engine standards set to
22 take effect in 2004, these engines will continue to
23 emit large amounts of nitrogen oxides and particulate
24 matter, both which contribute to serious health
25 problems in the United States. These include premature

1 mortality, aggravation of respiratory and
2 cardiovascular disease, aggravation of existing asthma,
3 acute respiratory systems, chronic bronchitis, and
4 decreased lung function.

5 Numerous studies also link diesel exhaust to
6 increased incidents of lung cancer. The "National
7 Toxicology Program's 9th Report on Carcinogens"
8 classified diesel exhaust particulates as reasonably
9 anticipated to be a human carcinogen.

10 In 1998, California declared particulate
11 emissions from diesel-fueled engines as a toxic air
12 contaminant, a probable carcinogen requiring action to
13 reduce public exposure and risk, based on data that
14 supported the links between diesel exposure and
15 cancer.

16 Nitrogen oxides contribute to ozone, commonly
17 know as smog. Ozone is a powerful respiratory
18 irritant. Symptoms include shortness of breath, chest
19 pain, wheezing and coughing. Research on the effects
20 of prolonged exposures to relatively low levels of
21 ozone has found reductions in lung function, biological
22 evidence of inflammation of the lung lining, and
23 respiratory discomfort. Researchers liken ozone
24 exposure to a sunburn of the lungs. Studies of animals
25 found an increased susceptibility to bacterial

1 pneumonia infection.

2 Ozone triggers asthma attacks. People with
3 chronic bronchitis and asthma already suffer from
4 reduced lung function and therefore cannot tolerate an
5 additional reduction in lung function due to ozone
6 exposure.

7 The health risks from diesel exposure is
8 greatest for children, the elderly, people who have
9 respiratory problems or who smoke, people who regularly
10 exercise strenuously in diesel-polluted areas, and
11 people who live or work near diesel exhaust sources.
12 Studies have shown that the proximity of a child's
13 residence to major roads is linked to hospital
14 admissions for asthma, and there is a positive
15 relationship between school proximity to freeways and
16 asthma occurrence. Truck and traffic intensity and
17 exhaust measured in schools were significantly
18 associated with chronic respiratory symptoms.

19 Diesels are a large source of particulate
20 pollution. Particles of special concern to the
21 protection of lung health are know a fine particles,
22 2.5 five microns in diameter. Fine particles
23 particulates are easily inhaled deep into the lungs
24 where they can be absorbed into the bloodstream or
25 remain embedded for long periods of time. A recent

1 study showed a 17 percent increase in mortality in
2 areas associated with high concentrations of small
3 particles.

4 Recent research has also linked the exposure
5 to relatively low concentrations of particulate matter
6 with premature death. Those at greatest risk are the
7 elderly and those with preexisting respiratory and
8 heart disease.

9 To understand how far we have to go to clean
10 the air, one need only look a day earlier this month,
11 Saturday, June 10th. Preliminary data, from the
12 Mid-Atlantic Regional Air Management Association, show
13 on this particular Saturday, 144 monitors in eight
14 states from North Carolina to New York and the District
15 of Columbia had ozone levels above the .08 ppm
16 eight-hour standard. Millions of people live in this
17 region. Twenty-six monitors reported air pollution
18 above the .12 ppm one-hour standard, including peaks
19 of .146 ppm in Fair Hill, Maryland; .147 ppm in
20 Norristown, Pennsylvania, and .145 in Riverhead, New
21 York, in Suffolk County on Long Island.

22 Ozone remains a pervasive and immediate
23 health threat for millions of Americans. The public
24 overwhelmingly supports the clean up of trucks and
25 buses. In a nationwide public opinion survey conducted

1 earlier this month, nearly nine out of ten Americans
2 believe that big diesel trucks and buses should be
3 required to use the best available pollution control
4 technology. In addition, the survey found that nearly
5 seven of ten believe that cleaner diesel fuel and
6 stricter diesel vehicle standards will require less
7 than five years.

8 The public wants this soon. On the critical
9 question of diesel fuel 85 percent of survey
10 respondents believe that up to 4 cents a gallon is a
11 reasonable price to pay.

12 As I indicated earlier, the American Lung
13 Association strongly supports the EPA proposal. In our
14 written comments we will address many of the specifics
15 raised in the proposal. I will highlight the most
16 critical elements here.

17 We strongly endorse the levels EPA has
18 proposed. We support the 90 percent reduction of
19 particulate matter to 0.01 grams per brake
20 horsepower-hour standard and the 95 percent reduction
21 of NOx to the 0.2 standard. We are pleased that EPA is
22 calling for the particulate standard to be fully
23 implemented by 2007.

24 However, we believe the four-year phase-in
25 period proposed is unwarranted and unnecessarily will

1 postpone the needed air quality benefits. We call on
2 EPA to require 100 percent of the new vehicles to meet
3 the 0.2 grams per brake horsepower-hour NOx standard in
4 2007.

5 Once again, we reiterate that the most
6 critical element of this rule is the 97 percent
7 reduction of sulfur in diesel fuel. EPA must cap the
8 sulfur in diesel fuel at no higher than 15 ppm and must
9 fully implement the fuel sulfur rule nationwide no
10 later than June 2006.

11 The American Lung Association also supports
12 the development of a Blue Sky performance standard for
13 truly clean technologies, and we will further expand on
14 this concept in my written comments later.

15 In conclusion, some, especially in industry,
16 will say that the air is getting cleaner so cleaning up
17 diesel fuel and heavy-duty trucks is unnecessary. Some
18 data do show that the air pollution levels in some
19 cities are lower than they were than a decade or two
20 ago. Congratulations, it is tribute to the clean air
21 strategies implemented so far.

22 But this is not true for all areas of this
23 country. In some areas, air pollution is increasing.

24 As a parent of two small children, I don't
25 care that the air used to be even dirtier. I care

1 about the air my children are breathing today. The
2 fact is that the air that my kids are breathing is
3 still unhealthy is unacceptable.

4 We know much more about the health effects of
5 air pollution today than we did in 1980 or even 1990.
6 We know that exposure to ozone at much lower
7 concentrations poses health risks, including the
8 exacerbation of asthma. We know that particulate
9 pollution has been linked to premature death. We know
10 that diesel exhaust has been linked to cancer.

11 With all we know about air pollution health
12 effects, we do not need more delays. The American Lung
13 Association urges the immediate adoption of the low
14 sulfur diesel/heavy-duty vehicle rule.

15 MS. OGE: Thank you.

16 MR. PAT CHARBONNEAU: My name is Patrick
17 Charbonneau. I am Vice President of Engine Engineering
18 for International Truck and Engine Corporation. Which,
19 as many of you know, formerly was known as Navistar.

20 I'm here today to discuss EPA's proposed
21 model year 2007 emission standards for heavy-duty
22 engines, as well as the agency's proposed on-road
23 diesel fuel quality requirements.

24 At the outset, International commends the EPA
25 for its landmark proposal to address heavy-duty

1 emissions through a systems approach involving both
2 fuel quality and engine technology.

3 There is no question that diesel engine
4 technology is making dramatic strides in emissions
5 control. As we know, the availability of ultra-clean
6 diesel fuel is a prerequisite toward meeting the
7 challenging new emissions standards beginning in 2007.
8 And with the clean diesel fuel, we can count upon the
9 advanced NOx and PM after-treatment technologies needed
10 to achieve unprecedented emissions reductions.

11 For that reason, we are pleased that the EPA
12 is mandating fuel that will enable these advanced
13 technologies to be used on all heavy-duty engines.

14 International is investing hundreds of
15 millions of dollars in the development of new
16 technologies for all markets -- heavy-duty and
17 light-duty -- where our engines are sold. We are
18 re-inventing all of our engine lines through
19 revolutionary engine redesign and the development of
20 advanced after-treatment technologies.

21 Our technological breakthroughs will allow us
22 to achieve unparalleled emissions reductions. Indeed,
23 we are developing "green diesel" technology today that,
24 with clean fuel, has already demonstrated the
25 capabilities of particulate filter technology to reduce

1 hydrocarbon and PM emissions to levels that are at or
2 at least below what agency is proposing in 2007.

3 In that regard, it's important to note that
4 progressive oil companies are already making 15 parts
5 per million diesel fuel commercially available. These
6 oil companies have earned recognition and our applause
7 for their efforts to bring clean diesel fuel to the
8 marketplace early.

9 With this ultra-clean fuel available so soon,
10 International will commercialize its "green diesel"
11 engine technology next year, and thus achieve EPA's
12 proposed MY 2007 hydrocarbon and PM emission standards
13 six years ahead of schedule. This is just one example
14 of the impressive environmental benefits that accrue
15 from a systems approach involving both clean fuel and
16 clean engines technologies.

17 I also commend the agency for its willingness
18 to phase-in the proposed NOx standards. We strongly
19 support a NOx phase-in approach, which underscores the
20 challenges facing industry in meeting NOx control
21 targets. The EPA's proposal goes far in addressing
22 these technological challenges, but we believe that we
23 could do even more without compromising important
24 environmental objectives.

25 In that regard, I'm pleased to say that

1 International, along with EMA, soon will be presenting
2 to EPA a new NOx phase-in proposal.

3 Under this proposal, there would be a single
4 NOx emissions standard for all engines in 2007. The
5 NOx standard in 2007 would be significantly below the
6 NOx standard applying to MY 2006 engines. Then, in
7 2010, the NOx standard would be stepped down to a new
8 and significantly tighter NOx standard. Importantly,
9 this proposal will meet and exceed targets in this
10 rulemaking, while at the same time providing
11 manufacturers with needed flexibility to meet those
12 targets.

13 For these reasons, we believe that the agency
14 will find this proposal to be a win-win for consumers
15 and the environment alike, and I am looking forward to
16 discussing this in greater detail.

17 We also believe that it will be critical for
18 the agency to conduct a narrow technology review to
19 confirm the status of the NOx adsorber technology,
20 which is the NOx after-treatment technology of choice
21 in meeting -- and EPA's basis for selecting -- the
22 proposed NOx emissions targets. A mid-term technology
23 review will allow us to assure that NOx adsorber
24 development is on schedule to meet the agency's
25 objectives.

1 In closing, I wish to reiterate
2 International's strong support for EPA's proposal to
3 reduce diesel fuel sulfur levels, which will enable the
4 use of NOx and PM after-treatment technologies needed
5 to achieve the agency's reduction objectives. We look
6 forward to discussing in our written comments these and
7 other technical details of EPA's proposed rule. I
8 thank you for giving us the opportunity to present
9 International's views today, and I'll be happy to
10 answer any questions you may have concerning my
11 testimony.

12 MS. OGE: Thank you. Mr. John Huber.

13 MR. JOHN HUBER: On behalf of the Petroleum
14 Marketers Association of America (PMAA), we would like
15 to commend EPA for moving diligently forward to improve
16 diesel emissions.

17 Diesel vehicles are the backbone of industry,
18 they deliver products locally and nationally. They
19 bring soda to the local stores; cement and asphalt to
20 construction sites, and supplies to all businesses.
21 Additionally, diesel powered buses transport commuters
22 and tourists throughout the country.

23 Improving emissions from these vehicles is
24 vital and supported by the petroleum industry, the
25 truck manufacturing industry, and users of these

1 vehicles. Curtailing emissions from these vehicles
2 will be appreciated by the American public and is an
3 extraordinarily worthy goal.

4 However, in improving the emissions
5 performance of these vehicles, EPA has many
6 challenges. First and most importantly, substantial
7 gains in emissions must occur. Second, and more
8 difficult, is to ensure that the program itself and the
9 costs associated with the program will not deter or
10 prevent the program from being successful.

11 EPA has done substantial research and
12 analysis to adopt an aggressive program to reduce
13 emissions, and should be applauded for those efforts.

14 PMAA, however, is concerned that the program
15 proposed may have some problems associated with
16 implementation, and urges EPA to be extremely cautious
17 in those areas.

18 A diesel truck is essentially a rolling
19 factory, with a chassis, an engine, and either a cargo
20 bed or cement mixer or other equipment over the
21 chassis. The operators of the trucks make rational
22 decisions on component replacements whether to buy new
23 trucks or to rebuild components, including the engine.
24 Diesel engines can last an extremely long time, and
25 many of the diesel-powered vehicles used in a

1 metropolitan area will tend to be low mileage vehicles,
2 whose engine life-span can be extremely long.

3 It is PMAA's opinion that for air emissions
4 to improve, neither the new vehicle nor the fuel that
5 will power it should encourage the operator of the
6 vehicle to defer purchasing the new engines and the new
7 fuel by rebuilding his current engine.

8 If such incentives occur or anticipated to
9 occur, we may see trucking companies purchasing record
10 numbers of trucks in 2005 and early 2006, buying
11 engines to put in their existing trucks with the goal
12 of avoiding the new trucks and the new fuel. An
13 article in "Transport Topics" earlier this year
14 examined the number of tractors sold in 1999; that
15 number shattered the previous record by nearly
16 20 percent or 50,000 units.

17 However, as 2000 developed, production seems
18 to be way down. The original equipment manufacturers
19 were turning their attention to this huge inventory of
20 used trucks in the market, and that the pressure from
21 these trucks was dampening sales in 2000. Volvo
22 indicated that they were cutting production in their
23 Virginia factory.

24 If this were to occur with this important
25 program or an amplified effect, then there would be

1 fewer of the cleaner trucks in the market. And
2 depending on how EPA decides to phase-in the new fuel,
3 we could end up in a vicious cycle where the new fuel
4 is underproduced, which drives the price up, which
5 deters new vehicle sales. Such a vicious cycle could
6 derail the program for a period of time, and would
7 almost certainly defer the gains that have been
8 promised to the American public.

9 PMAA, thus, would urge the Agency to listen
10 to the comments from manufacturers of petroleum
11 products. They have stated to both you and I that the
12 15 ppm cap is overly ambitious, will be expensive, and
13 will be outside the range for many refiners to produce
14 economically. If this occurs, fewer refiners will make
15 the product which will affect supply. Any supply
16 reductions will have a strong impact on price.

17 Additionally PMAA believes that this low
18 sulphur level will increase the pressure on the
19 Administration to develop alternative phase-in
20 provisions for the new fuel. In the proposal, EPA
21 discusses many of these alternative approaches. PMAA
22 does not have confidence that any will work
23 successfully.

24 PMAA starts with the premise that EPA must
25 select a diesel fuel that can and will be produced in

1 volumes adequate to satisfy the entire market. We
2 would reiterate our comments submitted with the ANPRM
3 that this is necessary and to avoid misfueling, ensure
4 adequate supplies that are available universally, and
5 ensure that there are no disincentives for purchasing
6 new vehicles. However, in an effort to respond to the
7 agency's request for information on these phase-ins, we
8 will discuss our concerns.

9 The Agency discusses misfueling as a concern,
10 and PMAA shares concerns regarding misfueling. There
11 are a number of issues regarding misfueling that are
12 relevant and must be considered. First, are there
13 incentives for the consumer to use the appropriate
14 fuel, and what harm will result from using the wrong
15 fuel?

16 In examining the proposal, it appears that
17 the 500 ppm fuel will come to the market with a much
18 lower price. In those situations, price will be an
19 incentive to use the old fuel. The countervailing
20 incentives are that it may damage the pollution
21 prevention equipment on the truck and disable the
22 trap.

23 The second problem is the sharply reduced
24 fuel mileage and possible damage resulting from the use
25 of the wrong fuel. PMAA believes that those will serve

1 as significant deterrents to using the wrong fuel.
2 However, EPA does not indicate whether the equipment
3 can be easily disabled or bypassed. If so, the price
4 will then become a powerful incentive to use the wrong
5 fuel. Assuming there is a 500 ppm fuel as well as a
6 15 ppm fuel in the marketplace, the EPA will be tasked
7 with preventing deliberate as well as accidental
8 misfuelings.

9 Preventing deliberate misfuelings will be
10 difficult if there is a substantial economic incentive
11 to use the old fuel. EPA raises the possibility of
12 changing the nozzle interface. However, while that
13 worked in the unleaded gasoline rule, the answer is not
14 as simple this time.

15 First, diesel is generally distributed
16 through large nozzles at fuel dispensers and that can
17 accommodate flow rates of 30 gallons per minute safely.
18 This is typical of the equipment at truck stops, and
19 most diesel trucks have large openings in their fuel
20 tank. However, at many retail service stations, the
21 diesel is dispensed through a smaller nozzle suitable
22 for fueling vehicles. The gasoline distribution
23 industry has a preference for using interchangeable
24 parts, and most service stations use small nozzles.

25 Thus, in considering a nozzle interface, EPA

1 could consider having the diesel tanks have extremely
2 small openings, which won't work for fueling
3 efficiency, or adopt an alternative configuration for
4 the nozzle and fuel interface. However, given the
5 small nozzles at some service stations, EPA will have
6 to design a very narrow lateral cut.

7 Of course, such interface restrictions don't
8 recognize that most diesel trucks use saddle tanks,
9 tanks that can readily be removed and replaced by the
10 owner of the vehicle. Additionally, as the Agency
11 noted, disabling or avoiding a nozzle restriction is
12 not typically difficult.

13 EPA also discusses the possibility of an
14 availability requirement. PMAA is convinced that if
15 new trucks are required to buy the new fuel, and have
16 not disabled the equipment, that the fuel will be
17 available. The free market is likely to mimic some of
18 the requirements that are now going on for alternative
19 fuels, whereby only centrally fueled fleets purchase
20 new trucks under this option, because that will ensure
21 that they are able to purchase fuels for the new
22 vehicles. It is also likely that some areas of the
23 country will have only limited supplies of the new
24 fuel.

25 In mandating and considering an availability

1 requirement, EPA should be extremely cautious on how it
2 proceeds. In previous rules, and as discussed in this
3 proposal, EPA would require sites selling diesel at a
4 certain volume to sell the new ultra-low sulfur fuel.
5 As EPA knows, the high volume sites are principally
6 travel plazas and truck stops. Mandating that these
7 sites sell the fuel would appear attractive to EPA,
8 since it would ensure the fuel is sold throughout the
9 country.

10 However, PMAA believes first that such a
11 mandate would not be necessary, since this class of
12 trade will configure itself to serve the market.
13 However, in some cases, the investment may not be
14 warranted in installing a second fueling system.

15 For example, in some cases two truck stops
16 may be in competition. And if one decides to sell the
17 fuel, then why should the other be required to sell
18 it. Additionally, it should be noted that nearly one
19 third of the trucks use their own fueling
20 infrastructure. Thus, a truck stop which may be
21 competing with these private resources will be even
22 further disadvantaged.

23 PMAA is also concerned that to ensure the
24 fuel is widely available, that service stations will be
25 required to sell the new fuel. In that case, the

1 volume of the new fuel will increase dramatically and
2 the alleged benefits of a phase-in will be forfeited at
3 the same time the regulatory burden increases.

4 Further, it's clear that a low volume service
5 station cannot make the investment to install the
6 second tank, and would thus have to sell the new low
7 sulfur fuel. In some cases there may be no customers
8 needing to buy that fuel. However, he is not without
9 competition, in the industry several companies are now
10 fueling fleets from trucks at night.

11 If the new fuel costs 4 to 6 cents more per
12 gallon, that may be enough to drive the fixed retailer
13 out of the business. Thus, EPA in requiring
14 availability, would be forcing him out of the diesel
15 business, and possibly forcing him out of business.

16 Additionally, since all refiners will not be
17 manufacturing the new fuel, but may instead be buying
18 credits or may be exempt because of their size, where
19 will these retailers get the new fuel. If they have to
20 truck it in for 500 miles, the price will be
21 exorbitant, and it will be wiser to stop selling
22 diesel, since they may be competing with other
23 customers who are selling both grades of diesel or
24 having just the one. Thus, EPA may be mandating
25 retailers to sell a fuel, even though they have

1 provided an option for manufacturers to not make the
2 fuel.

3 We would now like to comment on the various
4 ideas that EPA has suggested for phasing in the fuel.

5 First, EPA has suggested three possible
6 scenarios for phasing in the new fuel with different
7 volume levels required to be manufactured. While we
8 recognize that EPA is attempting to provide flexibility
9 to the market, we do not think that is the best
10 approach.

11 First, as EPA certainly recognizes, matching
12 supply and demand is extremely difficult. Under each
13 of these phase-in approaches, the refiners will be
14 making substantially more fuel than is likely to be
15 consumed by the vehicles required to use it. In such a
16 situation, supply will be greater than demand, and the
17 likelihood of recovering costs will be lessened. This
18 will discourage refineries from making the necessary
19 investments to supply the demand, which may result in
20 shortages in both the old and newer product as
21 producers decide to forego the investment in a new fuel
22 where EPA has fixed the game so they will not recover
23 their investments.

24 As second alternative which has been
25 suggested is refiner ensured availability. It is our

1 understanding of this concept that the refiners would
2 be entitled to manufacture 500 ppm fuel in some ratio
3 to the amount of 15 ppm fuel that they have ensured is
4 in the marketplace. PMAA is dubious on how this will
5 work, and believes that it could provide unique
6 benefits to certain refineries or truck stop operators.

7 In closing, 2000 has been characterized as
8 the third oil crisis by some notable energy experts.
9 Distribution problems for fuel in the Northeast and the
10 Midwest have sharply raised costs for fuel. The
11 Northeast heating oil problem was alleviated by
12 bringing heating oil and diesel from Europe and
13 relaxing the sulfur standards for heating oil.

14 In St. Louis, reformulated gasoline was not
15 available, and EPA waived the rules so that
16 conventional gasoline could be used. It should be
17 noted that relief did not come before prices spiraled
18 out of control.

19 Chicago and Milwaukee are now experiencing
20 prices for gasoline that many consider too high. Too
21 many fuels, not enough refineries, not enough domestic
22 production all contribute to these problems.

23 EPA must work through these issues and
24 develop a fuel for the future, and a program to improve
25 diesel emissions that is sure to succeed. Thank you.

1 MS. OGE: Ms. Stanfield.

2 MS. REBECCA STANFIELD: My name is Rebecca
3 Stanfield, and I'm the director of the clean air
4 programs for the United States Public Interest Research
5 Group for the national lobby office. We are nonprofit,
6 nonpartisan, and active in 28 states with about a half
7 million members around the country.

8 Thank you for giving me an opportunity to
9 comment today on a rule with important and far-reaching
10 implications for our nation's air quality.

11 It is a daily reality for most Americans
12 living in urban suburban areas to encounter thick,
13 black clouds of noxious diesel pollution, and suffer
14 the foul smell and taste, itchy eyes, sneezing,
15 coughing, wheezing, and long-term health effects that
16 are a direct result from breathing this exhaust. In my
17 time working on air quality issues for the State PIRGs,
18 I know that our canvassers who talk to millions of
19 Americans each year at their doors hear this story all
20 the time.

21 It is common sense that cutting the pollution
22 from these trucks will result in enormous public health
23 benefits, and will vastly improve the quality of life
24 in our cities and suburbs. This common sense notion
25 was recently supported by 87 percent of the people in a

1 poll commissioned by the American Lung Association.

2 Common sense in the case of diesel pollution
3 is confirmed time and time again by the health studies
4 showing that exposure to diesel pollution can lead to a
5 range of symptoms from asthma attacks to premature
6 death and lung cancer. Based on over 30
7 epidemiological studies, we know that exposure to
8 diesel exhaust can increase the risk of lung cancer by
9 as much as 89 percent. Earlier this spring, an
10 association of state air regulators estimated that more
11 than 125,000 cases of cancer in the US are the result
12 of breathing diesel pollution.

13 Add to these 125,000 cases of cancer the
14 following health impacts: Thousands of American lives
15 cut short annually due to fine particulate pollution;
16 thousands of hospitalizations and emergency room visits
17 annually for asthma and other respiratory disease; and
18 millions of days of restricted activity annually for
19 vulnerable populations. It is to prevent these health
20 impacts the US PIRG strongly supports the proposed
21 standards to reduce heavy-duty bus and truck
22 pollution.

23 There are three key pieces that form the
24 cornerstone of the proposed standards, and these pieces
25 need to be preserved at all costs if this program is to

1 be effective.

2 The first is the 15 parts per million cap on
3 diesel fuel sulfur content, to be effective by 2006.

4 The second is the 0.01 one grams per brake
5 horsepower-hour particulate standard, effective in
6 2007. And the third is the 0.2 grams per brake
7 horsepower-hour standard for NOx and hydrocarbons.

8 I'm going to use the remainder of my time to
9 touch on four briefs points. The first point is that
10 clean diesel fuel is essential. We've heard it over
11 and over today. US PIRG supports EPA's proposal to cap
12 diesel fuel sulfur levels at 15 parts per million,
13 effective in 2006.

14 And we believe it would be an expensive
15 exercise in futility to spend the next ten years
16 phasing-in advanced engine and afterburner pollution
17 controls for heavy-duty engines, only to allow these
18 controls to be poisoned and rendered infective by the
19 presence of sulfur in the fuel. Given the ability of
20 refiners to remove sulfur from the diesel fuel, as
21 evidenced by recent statements of support for the
22 standards by two major oil companies, there is no
23 reason to tolerate a scenario in which dirty diesel
24 fuel damages or destroys these essential pollution
25 controls.

1 Other observers have suggested alternative
2 caps, and averaging systems. For example, the American
3 Petroleum Institute suggests that a cap of 50 parts per
4 million would be sufficient; however, the consequences
5 of setting a cap higher than 15 ppm include: Increased
6 incidence of particulate filter failure; deterioration
7 of engine performance; and poisoning of the NOx
8 catalysts.

9 For the public, this means more pollution,
10 more asthma attacks, more hospitalizations, more
11 premature mortality, and more cancer. We urge EPA to
12 reject this alternative.

13 The second point is that EPA's proposed NOx
14 standards should be applied to all new engines in 2007,
15 EPA's proposal holds all new engines to a particulate
16 standard of 0.01 grams per break horsepower-hour in
17 2007, and but allows a four-year phase-in of the NOx
18 standard, delaying full implementation until 2010.

19 We believe that this unnecessarily delays the
20 smog reduction benefits of the rules, prolonging the
21 chronic smog problems faced by more than 117 million
22 Americans who live in likely ozone non-attainment areas
23 across the nation.

24 The urgency of our need to reduce emissions
25 cannot be overstated. At the end of 1999, we compiled

1 smog monitoring data from every monitor in the nation,
2 and found that the health standard for smog had been
3 exceeded more than 7000 times. Moreover, according to
4 a 1990 study by Abt Associates, smog was the cause of
5 more than 6 million asthma attacks, 150,000 emergency
6 room visits; and 50,000 hospital admissions in a single
7 summer of 1997.

8 We believe that all new engines should be
9 able to meet the 0.20 grams per bhp-hour by 2007. The
10 Manufacturers of Emission Controls Association, an
11 association of companies who are most directly involved
12 in providing the technology to achieve these standards,
13 agree that the technologies to meet the NOx standard
14 will be available in 2007. Again, this hinges on the
15 availability of clean fuel.

16 The third point is that we believe that a
17 technology review is unnecessary and
18 counterproductive. US PIRG urges the EPA to reject the
19 suggestion by some to include a technology review for
20 the 2003 time frame. We believe that this review would
21 be unnecessary, given the high degree of confidence
22 that clean fuels will enable rapid development of NOx
23 emission control technologies.

24 Moreover, we see the proposed technology
25 review as a disincentive to actually develop cleaner

1 engines. Giving the industry an opportunity to escape
2 from new standards, contingent on their own lack of
3 future progress in developing NOx control technologies
4 is far too much like the fox guarding the hen house. It
5 should be remembered that this industry has a history
6 of illegal actions to escape from pollution standards.

7 In addition, one could view this technology
8 review as little more than an opportunity to take
9 advantage of the changing political landscape under a
10 new administration, and one that make be less committed
11 to protecting public health.

12 Finally, the last point that advanced
13 heavy-duty technology should be encouraged. While
14 diesel engines are known as the workhorse of our
15 present transportation system, it's important to
16 acknowledge that far cleaner technologies are being
17 commercialized. The promotion of these technologies,
18 including fuel cells, hybrids, and electric propulsion
19 systems, can lead to critical additional public health
20 and environmental benefits.

21 We strongly support the inclusion of the Blue
22 Sky program to define a set of propulsion technologies,
23 and/or a set of lower emission standards for vehicles
24 to be designated for receipt of incentives under local,
25 federal, or state incentive programs.

1 Thank you, again, for giving us this
2 opportunity.

3 MS. OGE: Thank you.

4 UNIDENTIFIED: I want to talk mainly about
5 West Harlem. We will be commenting on your rules once
6 we've read them. We have not seen a copy as yet, we
7 will be looking at it.

8 Statistics shows that both city and private
9 industrial facilities are violating neighborhoods of
10 color. North River Community Environmental Review
11 Board, which I chair, will complete its 15th year
12 advocating and trying to protect the health of Harlem.
13 West Harlem in particular. And, of course, of other
14 communities.

15 West Harlem is the seat of six of New York
16 City's bus depots, the West Harlem Highway, and the
17 Amtrak Rail. Diesel fuel from heavy-duty gasoline
18 trucks primarily coming in from other boroughs, buses
19 commuting, and commuters on the West Side Highway pass
20 through Harlem's neighborhoods. New York City is
21 planning to close (inaudible). Harlem is being plagued
22 with an over-saturation of hazardous waste of
23 (inaudible) carbon monoxide.

24 We need continuous testing of PM 2.5
25 throughout Harlem, and West Harlem in particular.

1 Through the (inaudible) the New York City DEP has
2 installed the North River Water Pollution Control Plant
3 Air Quality Control Monitoring System to monitor
4 various types of contaminants in the area, which affect
5 residents of West Harlem communities and the river
6 banks. According to the New York City DEP, North River
7 opened in March of 1986. We began to address the
8 (inaudible) from the (inaudible), which actually became
9 unbearable.

10 Now that we are finally getting some
11 validated data from the Air Quality Control Monitoring
12 System that was installed to monitor the contaminants
13 of North River through the consent order, New York City
14 DEP has applied to New York State DEC for consent to
15 remove the North River Air Quality Monitoring System
16 and discontinue air monitoring. This is unacceptable.
17 The North River Air Quality Station system needs
18 upgrading. And the North River Community Environmental
19 Review Board has requested various upgrades and
20 improvements (inaudible).

21 West Harlem is in dire need of a (inaudible)
22 air quality environmental impact evaluation
23 (inaudible). The North River Water Pollution Control
24 Plant Air Quality Monitoring System should be looked at
25 by the US EPA to make sure that it is made permanent

1 and that it will not be removed. The improvements to
2 the Environmental Impact Air Quality Monitoring System
3 has been requested by the North River Communities
4 Environmental Review Board, and we can give you copies
5 of those letters. If not, however, you should have
6 them in your office, because you're on my mailing
7 list.

8 Preferred plans by New York City Department
9 of Sanitation to enlarge the 135th Street (inaudible)
10 rail, water, and trucks moving garbage in and
11 throughout lower Manhattan (inaudible). This is an
12 injustice to the residents of West Harlem. If each
13 borough is to have its own garbage, 91st Street and
14 (inaudible) 135th Street, each handling the same amount
15 of garbage, only the same amount of (inaudible) and the
16 same amount of (inaudible).

17 More industry contaminated racism on Harlem
18 and West Harlem is unacceptable (inaudible). In
19 particular, because they make sure that these
20 contaminated facilities are not located in their area
21 and they are forced into our communities. That's an
22 injustice.

23 A few years ago when the 91st Street and 59th
24 Street Marine Transfer Stations were renovated, they
25 moved uptown to 135th Street, we had (inaudible) going

1 in and out with three shifts. The 91st street is
2 closed, all of them are closed now, with the exception
3 they keep (inaudible). The plans that they have are
4 unacceptable.

5 And if they opened only the 135th station,
6 then we will have over and above 2000 trucks coming in
7 per day. More diesel fuel, more PM 2.5, more asthma,
8 more diesel, more cancer. And that means that while we
9 are (inaudible), we will be dying at a much higher
10 rate.

11 I want to thank US EPA for holding this
12 hearing and allowing us to be heard, we appreciate
13 that. And we will be commenting on your rules before
14 your commenting period ends. We apologize for having
15 not seen a copy of it, but I just heard from you on
16 Thursday night and we have not had time to look at it.

17 So if there is any help, if you can come to
18 West Harlem and see the problems that we have there, it
19 would be most appreciated.

20 MS. OGE: Thank you. Mr. Stead.

21 MR. CRAIG STEAD: My name is Craig Stead, I'm
22 from Putney, Vermont (phonetic), and I have served as
23 an expert on composition toxicity, toxicity and human
24 health effects of diesel exhaust. I have been studying
25 diesel exhaust for seven years at this point. I have a

1 master's degree in chemical engineering, and I am a
2 registered professional engineer. I have worked for
3 the petroleum and the chemical industries. I am also
4 an asthmatic, and I found diesel exhaust is a potent
5 asthma trigger.

6 I'm going to raise a new concern that has not
7 been discussed. And this new concern is new, highly
8 toxic, diesel exhaust pollutant that requires no
9 (inaudible). And it is briefly discussed in EPA
10 documents, but it is far more serious than the
11 discussion indicates.

12 The new highly toxic pollutant is ultra-fine
13 particles that are generated by modern clean burning
14 diesel engines. So the first question obviously is
15 what are ultra-fine particles? These are particles
16 that are incredibly small, less than 0.1 microns in
17 size. This is to be compared with the standard PM 10,
18 or the new standard of PM 2.5, which is 2.5 microns,
19 these are 0.1 microns.

20 As a result of the small size, these
21 particles are (inaudible). And they cannot be seen in
22 a diesel exhaust pipe, so that exhaust looks perfectly
23 clean. It is not. It is deadly. These particulates
24 have no weight. A million of them weigh nothing. As a
25 result of this, mass-based or weight-based standards

1 (inaudible) are meaningless in addressing ultra-fine
2 particulates. Thus, statements that we have a
3 90 percent reduction in (inaudible) meaningless in
4 regards to ultra-fine particulates.

5 These particulates, because of their
6 fineness, stay aloft for a week, it is estimated, and
7 can travel thousands of miles. So the air pollution of
8 New York City is the air pollution of Vermont when it
9 gets pushed up to Connecticut Valley. And I can't
10 (inaudible). They found that ultra-fine particles
11 cause severe inflammation (inaudible) in animals. They
12 are associated with asthma. Because of the fine size
13 of these particles, when you breathe them, you retain
14 almost 100 percent of them. They have found that these
15 particles enter the respiratory tract and can trigger
16 serious lung health damage.

17 So having heard the story of ultra-fine
18 particles, you somehow must now address the ultra-fine
19 particle. In fact, it is important, because with the
20 change in diesel engine technology through what they
21 call "clean burning diesels," in fact, they are
22 producing primarily ultra-fine particles, which are
23 invisible. And they have found -- these are
24 researchers in Europe as well as the University of
25 Minnesota -- that the modern engines produce more

1 particulates (inaudible). The modern ones, you don't
2 see the toxicity coming out of that exhaust pipe. They
3 are estimated at 10 to 100 million ultra-fine particles
4 per cubic centimeter of diesel exhaust. And for those
5 of you who can't visualize, that's about the size of a
6 marble.

7 The only method that has been found to
8 control ultra-fine particles in diesel engine exhaust
9 from a modern, clean burning engine is a particulate
10 trap with an oxidation catalyst to remove what is
11 called "soluble organics fraction."

12 I would refer the EPA to their own document,
13 which is an impressive and massive document -- and I
14 did not read it all, either -- but I read where they
15 discuss particulates and they make the following
16 statement. This is on page 161, and it's a statement
17 by Kettleson (phonetic), who's probably one of the
18 cutting-edge investigators on ultra-fine particulates.

19 Kettleson confirmed that ultra-fine particles
20 can be reduced by a factor of 10. By (inaudible)
21 volatile organics (inaudible reading from document) --
22 and I would emphasize this -- additional factor of 10
23 by reducing sulphur in the fuel, (inaudible)
24 particulate traps efficiently, (inaudible) nearly all
25 of the volatile organic particulate.

1 This is important, because what happens is in
2 the diesel exhaust (inaudible) these ultra-fine
3 particles.

4 This is why you need this after-treatment
5 technology. And he said elimination of as much sulfur
6 as possible will dramatically reduce the number of
7 ultra-fine particulates emitted from diesel engines.
8 And I emphasize that.

9 Therefore, the combination of particulate
10 traps with low-sulfur fuel is expected to result in a
11 very large reduction in particulate matter. And I
12 emphasize this again: Ultra-fine particulates will be
13 almost completely eliminated.

14 Thus, I pose the question to this audience
15 and EPA: Do we really have any choice on this issue of
16 sulphur in fuel and 15 parts per million cap? I don't
17 believe so.

18 The proposal with the 15 parts per million
19 cap on sulfur must be implemented as soon as possible
20 for the protection of asthmatics, and all of us. Thank
21 you.

22 MS. OGE: Thank you. I have couple of the
23 statements. (Request for Mr. Cavaney and Mr.
24 Charbonneau to provide more information.)

25 I would like to thank all of the panel

1 members for taking the time to testify. And given the
2 fact we have so many people, I would suggest that we
3 work through our lunch break to see if we can pick up
4 some time. So I would call for Candida Bido, Maria
5 McMorran, Carlos Padilla, Adele Bender.

6 We'll start with Candida Bido.

7 MS. CANDIDA BIDO: My name is Candida Bido,
8 and I'm the (inaudible) for West Harlem Environmental
9 Action, (inaudible) environmental justice in our
10 community, and I'm here really to speak on a personal
11 level.

12 I'm an asthmatic and I have discovered
13 personally the effect for all of the diesel fumes that
14 have traveled to my community. And let me say to you
15 that it might be very expensive for them to convert,
16 but it was extremely expensive for my family and me to
17 go up to the hospital to go to the emergency room every
18 day as I was growing up, and after that going to school
19 to learn.

20 The costs in my family has been extremely
21 high, too, and it is not comparable to the amount of
22 money that they have earned through all of the years
23 that they have been operating in our community.

24 The things is that many, a lot of those
25 people that they take their goods to, that they are

1 supplying the oils to -- eventually we're going to
2 die. And if that is the case, (inaudible). And that's
3 the reality that they need to deal with. It is not
4 cost effective to not do it. It is not expensive to
5 them to actually change the way of doing business.

6 It is more expensive to our community to
7 be -- really to be put through this process where we
8 get up, we cannot breathe at night, we end up at night
9 in the hospital, in the emergency room. Then we go to
10 school all drugged up because of the medicine that they
11 give us in the hospital and that causes a later
12 problem.

13 So I urge you to be strong and really make
14 the changes that are needed so that those people behind
15 me -- the kids in my community, my son, my nieces, my
16 nephew, my neighbor -- they can they have a healthy
17 life and be part of a productive community.

18 We are really being assaulted (inaudible).
19 This is not an environmental justice issue -- I have a
20 right to a clean neighborhood, and I want you to
21 protect my right as well as those of my community.
22 Okay, thank you so much.

23 MS. OGE: Thank you. Ms. Maria McMorran.

24 MS. MARIA McMORRAN: Good afternoon. Hi, my
25 name is Maria McMorran, and I'm here as a concerned

1 citizen. I would just like to echo many of the people
2 who have gone before me and spoken in support of the
3 EPA's proposal.

4 Clean air is fundamentally important to
5 quality of life for all New Yorkers, as this woman who
6 has just spoken has personally shown. Especially so
7 for asthmatics and people who already suffer from
8 respiratory diseases.

9 So, we've heard many people, many exerts,
10 talk so far about the fact that the technology is
11 something that is feasible. The health and
12 environmental benefits are known, and I think that we
13 don't really have any choice but to go forward with
14 these rules. It's important to all of us in terms of
15 our quality of life. Thank you.

16 MS. OGE: Thank you. Okay, could you state
17 your name?

18 MR. DANIEL PEREZ: My name is Dan Perez, and
19 I am here representing the Community Board in Harlem.
20 And I'm going to share my time with Yvonne Robinson.
21 I'm here representing (inaudible).

22 I am pleased to be here today with the
23 opportunity to not only to call attention to the
24 environmental condition that is our community, but also
25 to be a support to the EPA to diesel regulation. If

1 implemented, this regulation finally promised to
2 (inaudible) the life of millions of New Yorkers who are
3 both of (inaudible) by drastically reducing the
4 emissions of particulate.

5 Environmental have gone on for too long may
6 be stop may be able to (inaudible). Harlem today is a
7 community with thousands of residents suffering with
8 the effects of asthma and costs, and by the very diesel
9 pollution and (inaudible) like these buses and trucks
10 that are based in Harlem. This pollution is poisoning
11 the very air that we breathe. This degrades the
12 quality of our life. (Inaudible). I would like to not
13 have family, friends, neighbors to suffer from that.
14 Or to have asthma attacks (inaudible). To live in
15 Harlem means to know the constant (inaudible) of the
16 elderly, and the (inaudible). What is in particular
17 painful for me is that all the community in North
18 Manhattan (inaudible), which they have remedies
19 (inaudible).

20 All of the people involved in this issue are
21 fully aware of the alternates of diesel fuel vehicles,
22 which would have permanent impact on air quality. We
23 know New York (inaudible) high level. We all know that
24 the EPA has rated New York City second only to the Los
25 Angeles (inaudible) pollution. Half of which is

1 created from diesel. We all know that diesel
2 (inaudible) a certain form of cancer.

3 Finally the issue of (inaudible) the lack of
4 consent and leadership. Using the (inaudible)
5 facility, which is a massive amount of diesel
6 pollution. Two and three quarters of most people are
7 located in upper Manhattan, the areas known as Harlem
8 and Washington Heights, are communities of color. In
9 Manhattan, six of the MTA large bus depots are located
10 in these two communities.

11 Race appeared to be a large factor, not only
12 in (inaudible) but also funding. The future looked no
13 better. The MTA proposed 80 percent on (inaudible)
14 maintained a diesel depot and in communities of color
15 (inaudible). The only significant change is that the
16 downtown bus depot and extension (inaudible).

17 Technologies have made the tolerance of
18 diesel buses a matter of choice, not of necessity.
19 (inaudible) those will not care less about deadly and
20 (inaudible) each and every day. I would like to invite
21 you and your members to visit Harlem so you could smell
22 how sick.

23 MS. MARTIN: I ask you, for clarification of
24 the record, you stated that you were West Harlem
25 Environmental Action?

1 MR. PEREZ: I'm with the Community Board, but
2 I work very close to the West Harlem.

3 MS. MARTIN: Now we'll hear from Mr. Carlos
4 Padilla.

5 MR. CARLOS PADILLA: My name is Carlos
6 Padilla. I'm a President of South Bronx Clean Air
7 Coalition, who for the past 12 years has shutdown two
8 medical waste facilities -- one being an incinerator
9 and one plan to retrofit -- when they were destroying
10 the health of communities by emitting particulates and
11 (inaudible), which they were denying, themselves, that
12 was coming out of their plant. The EPA organizations
13 were able to have them reevaluate the systems and found
14 the errors of their ways.

15 I would like to thank the EPA for this
16 opportunity and I would also like to invite the EPA to
17 a tour up in the South Bronx. The South Bronx,
18 basically known as "Dodge City," is an area where you
19 have seven bridges that service Manhattan. These seven
20 bridges are most of the time congested with vehicles
21 that would not ordinarily pass any kind of emission
22 standard if it were to be tested.

23 I understand that you're trying to change the
24 sulfates to create a cleaner diesel, but we're looking
25 at seven years and looking at a hard fight, from the

1 examples that we've seen here. They seem to be
2 (inaudible). It's going to be a very tough fight and
3 things have happened in the past, sometimes a middle
4 grounds there have been negotiated.

5 I have a feeling the EPA should not
6 negotiate, should stay firm and strong. One of the
7 issues they have also is that I haven't seen anyone
8 address the petroleum industry the way (inaudible)
9 addressed for the negligence in selling cigarettes. I
10 do believe that the petroleum industry will surface
11 erroneous statements and documents. Doctored up
12 documents.

13 I also understand that the EPA gave a fine to
14 the General Motors, I believe it was about three or
15 four years ago, for \$25 million for (inaudible) rating
16 the emission test on the engines.

17 We're getting more to a situation -- I have a
18 community where there are highways and seven bridges.
19 This community is suffering one of the highest death
20 rates of asthma and we need from the EPA to come up and
21 take a look at why there is no enforcement. If you go
22 down to midtown Manhattan, in certain areas you blow
23 your horn and the police pull you over and you get
24 ticketed. Trucks are running with black streamers
25 coming from their pipes in front of daycare centers,

1 garbage trucks are parked in front of senior citizen
2 homes and hospitals.

3 You have to come take a look at a complete
4 disregard. They claim there's laws on the books that
5 will not allow this -- this is being allowed. There is
6 no enforcement. If you were to stop the police
7 officers in that community, in the South Bronx, and
8 question them on truck traffic, they will not be able
9 to give you a first regulation of how to stop or how to
10 ticket. These are some of the problems.

11 I know there is a lot of work ahead of all of
12 us to try to prove to go towards clean diesel. There
13 is a wonderful seminar at Bronx Community College to
14 give (inaudible) to identify a lot of areas to be
15 explored. We have a one-size-fits-all mentality, where
16 if we don't clean up diesel, nothing is going to
17 happen.

18 I believe the majority of trucks in our
19 communities are local. For instance, in the service of
20 the hotel, school buses -- anything associated with
21 diesel, these vehicles (inaudible) I speak up. The
22 Hunts Point Market, the New York Post, the buses, these
23 vehicles are burning their engines approximately 8 to
24 12 hours a day in the same communities. The majority
25 of trucks in our communities are ten years old and

1 better.

2 The average of these trucks leave in the
3 morning, they have diesel burning engines, and they
4 also have (inaudible) are running approximately 10 to
5 12 hours a day non-stop. School buses, city buses, all
6 these local transportation methods are running 8 to 12
7 hours per day.

8 The trucks in our community, I don't care
9 what the truck, you give me a truck, give me the
10 registration, I go up to a gas station, I bring back an
11 inspection sticker. This is what goes on. And there
12 is nobody (inaudible). This is why our communities are
13 oversaturated with respiratory problems and are
14 completely taken advantage of, because there is no
15 enforcement.

16 There are rules on the books. We are talking
17 about improving the emissions by reducing the sulfates,
18 and I agree with you. But in the interim I think there
19 has to be some sort of dignity.

20 What is the quality of the (inaudible). None
21 of this is taken seriously. Trucks running all over
22 the senior citizens. I understand that we have to take
23 a look at (inaudible). We're all working towards
24 (inaudible). Well, right now some of the impacts are
25 created just because burning -- diesel is being allowed

1 to burn, is another one of the problems.

2 In the Bronx, you have the rail yard which
3 was downsized. At a time when we need all the rail,
4 some developer who (inaudible) all the rail, okay,
5 ripped up the rail, enough rail for his friends in the
6 waste industry to be able to utilize. A lot of goods
7 and services are being forced to be trucked in because
8 the rail has been taken from you. I remember I was in
9 the trucking business. In New Jersey, half a mile
10 before you get to the piers you can smell the diesel
11 out there, that's how bad it was. (inaudible). I
12 think we're going to have to take a look at various
13 different technologies.

14 I want to thank you all for allowing me to
15 testify, and I really think it's important to come and
16 take a look and see the complete disrespect. The
17 regulatory agencies are not there stop some of these
18 trucks and look at their inspection (inaudible). How
19 did they manage to get an inspection sticker with a
20 vehicle in that type of condition?

21 We suffer, our children are suffering. Talk
22 to the community. Take a look. Please come up, I will
23 be happy to give you a tour of the situation and then
24 turnaround and say where is the enforcement? What's
25 the sense of having a law if nobody's going to be there

1 to enforce it? Thank you very much.

2 MS. MARTIN: Thank you. Adele Bender.

3 MS. ADELE BENDER: My name is Adele Bender,
4 and I'm a member of the Queens Senior Citizens
5 Organization.

6 When I hear all of the people talking, I
7 think "the best things in life are free," and it seems
8 the air you breathe is no longer free, you pay for it
9 with your life and with your health. And it's
10 disgusting and it's a disgrace when I hear the fuel
11 industry talking about the economy and the money, and
12 that they won't do as well with profit, or whatever.

13 I got to tell you something fuel industry:
14 I'm worth it, you're worth it, we're all
15 worth it. I don't care if the economy is not so great,
16 I want to be healthy. And if they're so worried about
17 cost effectiveness, maybe the health insurance people
18 should be down here testifying to that. Because with
19 the bad air and all of the toxic things that are going
20 on, the hospitals will save money, insurance companies
21 will save money. Perhaps, if money is always a bottom
22 line, maybe that will convince them we can breathe.

23 I live in Forest Hills, Queens, and I was
24 talking to some of the women. They happened to tell me
25 about a building that they know of, have some friends

1 living there on Queens Boulevard and, of course, they
2 keep their windows open. There are eight people they
3 know on one floor that they have cancer, and they feel
4 it's possible because they live above very heavy
5 traffic and maybe breathing in all that stuff over the
6 years. And, for sure (inaudible), but it is very
7 possible.

8 Other thing I would like to bring on also,
9 this tells me that the government -- I don't know if
10 you're going to have to work with industry -- but what
11 you, EPA, is proposing to do, they're going to really
12 have to move themselves and really do a lot of very
13 heavy and important work on alternative fuel sources,
14 you know, whatever, and in five or six years from now.
15 People don't have five or six years, so you, they want
16 to pass laws and profit motives or for industries --
17 it's amazing they are planning to do these things and
18 they really have to go through very, very quickly.

19 It's going to cost money, and that means it's
20 jobs, it's people maybe could earn living doing some
21 good and improving the quality of our life. This is a
22 very, very important thing.

23 The other thing I wanted you to know, I
24 wanted to say is that, again, these things have to be
25 done pretty much, I guess, like everything. But I

1 wanted to say one other thing I didn't want to say and,
2 but when I see these trucks with black smoke coming out
3 of those pipes, I say why don't they (inaudible)
4 everything else, any clean air law that is passed for
5 the cars, as far as I'm concerned, when that black
6 smoke comes out.

7 And there's more and more trucks. I have
8 nothing against the guy learning earning a living, but
9 if you don't have the laws for the big trucks that go
10 through, it's going to berate everything you did. And
11 you do have to depend more on your rail system. Thank
12 you.

13 MS. MARTIN: Now, if we could hear from
14 Ms. Yvonne Robinson.

15 MS. YVONNE ROBINSON: Good afternoon. My
16 statement is both personal and professional. My name
17 is Yvonne Robinson and I live in the South Bronx which,
18 as you know, has a very high rate of asthma.

19 I have a 22-month old son. When I take him
20 outside my building to the playground, you can see
21 (inaudible). To make it worse, there is a warehouse
22 supermarket across the street, so, therefore, there are
23 constant deliveries being made by 18-wheelers with
24 diesel fuel. And then on a block over there is a
25 sanitation plant. This greatly concerns me, as I do

1 not want my son to develop asthma or any other
2 respiratory illness, I want my son to grow up with
3 healthy lungs.

4 On a professional side, I'm a community
5 liaison with the outreach component of Harlem
6 hospitals. As an (inaudible) initiative within our
7 program, we have a group called "Asthmatics." The
8 majority of our members did not develop asthma until
9 they were well into their fifties, so clearly the
10 effects of air pollution can affect you sooner or
11 later.

12 The passage of this proposal is of concern to
13 me, please treat it as such. Thank you.

14 MS. MARTIN: Thank you very much. Now the
15 last person, I believe, on this panel is Ms.
16 Sally Lindsay.

17 MS. SALLY LINDSAY: I'm Sally Lindsay, I'm an
18 artist living and working in Soho. My loft is 12
19 stories above (inaudible) Street at Broadway, which is
20 right down the street from the Holland Tunnel.

21 When I went there in 1971 it was like being
22 in the country, it was wonderful. Now when you open
23 the windows and doors, your eyes sting and the air is
24 foul most of the time. So this is just a little
25 anecdote about environmental pollution.

1 MS. MARTIN: Thank you to all the members on
2 the current panel. And we will take a short recess for
3 the court reporter.

4 (Recess.)

5 MS. MARTIN: We will please begin this panel
6 with the testimony of City Councilmember Stanley
7 Michaels.

8 MR. STANLEY MICHAELS: Thank you very much.

9 I am Councilmember Stanley Michaels, and
10 chair of the Environmental Protection Agency of the New
11 York City Council. And I'm also a member of the local
12 government advisory committee of the EPA.

13 I'm very pleased to be here. Let me say this
14 at the outset: I fully support EPA's proposed
15 standards requiring advanced pollution control devices,
16 both diesel and heavy-duty gasoline truck devices.

17 These rules are long overdue, and have been
18 enthusiastically received by everyone concerned about
19 the continuing serious pollution problems in the New
20 York City area and the deleterious effect on public
21 health.

22 I urge you -- repeat -- I urge you to
23 implement these rules nationwide at the earliest
24 possible date. At least by the year 2006, as you have
25 proposed.

1 Diesel fuel and vehicles have been the only
2 major source of pollution not to be covered by updated
3 federal regulations in recent years. These new rules
4 recognize the fact that the trucks and buses, together,
5 represent a disproportionately large source of nitrogen
6 oxides. Especially as emissions from private cars,
7 power plants, and factories have been reduced.

8 The EPA is to be congratulated and commended
9 for tackling this issue head on. And for seeking not
10 just a modest improvement, but a 90 percent cut of
11 emissions by the end of this decade.

12 As far as I'm concerned, this standard is as
13 important to the future of New York City, and the rest
14 of the country, as President Kennedy called the landing
15 of man on the moon in the early 1960s.

16 New York City is overly dependent on buses
17 and truck drivers and mass transit for commercial goods
18 deliveries. And to that I might add that over
19 95 percent of all goods that come to New York, comes by
20 truck. So we're captive of the truck industry.

21 We are literally choking on the fumes from
22 diesel-powered engines. New York State estimates that
23 by the year 2007 heavy-duty trucks and buses will be
24 the source of one-third of all nitrogen oxide emissions
25 from vehicles, even though the trucks and buses account

1 for only 7 percent of the total miles traveled. The
2 problem is undoubtedly worse in New York City.

3 This is why we, and the rest of the country,
4 needs these EPA rules as quickly as possible. We urge
5 you not to back down. You are on the right road, the
6 road to cleaner air. So it's extremely important to
7 all of us, especially to New York City and State. It
8 does us no good on a regional basis, it has to be on a
9 nationwide basis. I appreciate it, and I wish you
10 Godspeed in working. Thank you.

11 MS. MARTIN: Thank you very much. Mr. Peter
12 Lehner.

13 MR. PETER LEHNER: I'm the Chief of the
14 Environmental Protection Bureau in the New York State
15 Attorney General's Office. On behalf of Attorney
16 General Eliot Spitzer, I'm here to speak strongly also
17 in favor of the proposed emission standards for
18 heavy-duty engines and vehicles, and the proposed
19 highway diesel fuel sulfur control requirements.

20 The substantial reductions in nitrogen
21 oxides, nonmethane hydrocarbons, particulate matter,
22 sulfur dioxide, carbon monoxide, and air toxics that
23 would be achieved by the implementation of the proposed
24 emissions standards is very badly needed. Despite New
25 York State's leadership in fighting air pollution, our

1 state continues to suffer the consequences of smog,
2 particulate matter, acid rain, and nitrogen
3 deposition.

4 The New York City metropolitan area has some
5 of the highest levels of ozone and particulate matter
6 in the United States, as well as extremely high levels
7 of asthma and other respiratory illnesses. Upstate,
8 because of acid rain causing sulfur dioxide pollution,
9 many Adirondack lakes are devoid of life and forests
10 are deteriorating.

11 And as EPA's impact analysis for the proposed
12 standard shows, the eutrophication of Long Island Sound
13 is exacerbated by nitrogen deposition, disrupting the
14 marine habitat and resulting in large shellfish kills.

15 Diesel exhaust is one of the most damaging
16 sources contributing to New York's air pollution
17 problems, particularly in the metropolitan area.
18 Diesel-powered vehicles produce a significant
19 proportion of New York City's loads of particulates and
20 smog forming nitrogen oxides.

21 The New York State DEC estimates that almost
22 53 percent of airborne particulate matter in New York
23 City comes from diesel tailpipes. And that number is
24 even larger with respect to PM 2.5, which comprise over
25 90 percent of particulate matter in heavy-duty diesel

1 engines exhaust.

2 As EPA has recognized in lowering the
3 national ambient air quality for ozone and adopting a
4 PM 2.5 NAAQS, these pollutants cause or contribute to a
5 variety of respiratory illnesses. And, too often,
6 these adverse effect are disproportionately felt by
7 low-income and minority communities.

8 While I go into greater detail with the
9 written testimony on some of the impacts of this, I
10 would like to emphasize that EPA's action is an
11 important complement to what the states are doing at
12 the local level.

13 In our office of the Attorney General's
14 office, we are doing all we can to enforce and protect
15 the clean air laws that we have in place.

16 In a major environmental initiative, we sued
17 a number of coal-fired power plants in the Midwest that
18 have upgraded or expanded their old facilities without
19 making the necessary emission control upgrades required
20 by the Clean Air Act. We are also pursuing legal
21 action against a number of similar plants in New York
22 State. We are pleased that the federal government,
23 seven other Northeast states, and numerous
24 environmental and community organizations have joined
25 our efforts.

1 We have also supported EPA in a number of
2 other rulemaking efforts. In Michigan versus EPA, for
3 example, we intervened to support their action
4 requiring extensive reductions in NOx emissions from
5 Midwestern states. And in another case, Appalachian
6 Power versus EPA, we intervened to support EPA's grant
7 of New York's petition under Section 126 of the Clean
8 Air Act. And, finally, as we all are involved in the
9 American trucking case, we have submitted and will
10 submit additional amicus briefs on EPA's tightened
11 ozone and PM 2.5 standards. So we're used to
12 supporting EPA, and we're glad to be doing so again.

13 More locally, last spring we sued the New
14 York City Department of Sanitation for failure to
15 produce an environmental impact statement, or
16 addressing a plan to send hundreds of highly polluting
17 diesel garbage trucks per day through the Holland and
18 Lincoln tunnels and over the George Washington Bridge,
19 to deliver garbage from Manhattan to New Jersey.

20 New York City DOS, however, did not address
21 PM 2.5, despite the clear and overwhelming evidence of
22 adverse public health impacts from these particulate
23 matter, nor did they use correct modeling approaches.
24 We cited to an EPA letter that similarly noted that
25 under the National Environmental Policy Act, the 2.5

1 analysis would be required.

2 In developing that lawsuit, we found that
3 many effective after-treatment devices exist that can
4 be put on new vehicles, or that can easily be
5 retrofitted on to existing trucks. We also discovered
6 the importance of low-sulfur fuel for the proper
7 functioning of these devices, and the impact that
8 low-sulfur fuel alone can have on particulates and
9 other emissions.

10 And finally, with EPA, our office
11 participated in the settlements with the heavy-duty
12 diesel emission manufacturers, who deliberately
13 deceived the EPA on their emissions tests, resulting in
14 an extra 1.3 million tons of nitrogen oxides emissions
15 each year.

16 In addition to these actions, we have
17 underway several investigations that you may hear about
18 before too long. So in summary, at the Attorney
19 General's office, we are doing everything in our power
20 to clean the air in New York State. But we cannot
21 bring air quality to a safe level without more
22 stringent emissions standards for heavy-duty diesel
23 vehicles. We are, therefore, very supportive of the
24 EPA's proposed plan to reduce these dangerous diesel
25 emissions.

1 EPA's proposed plan addresses the heavy-duty
2 diesel vehicles and its fuel as a single system. This
3 is essential for the success of the proposal, as the
4 standards are based on the use of high-efficiency
5 catalytic after-treatment devices. Because the devices
6 are damaged by sulfur, EPA is right to propose new fuel
7 quality requirements to remove 97 percent of the sulfur
8 from highway diesel fuel before the vehicles are
9 required to meet the new standards.

10 Independent of its effect on after-treatment
11 devices on new engines and vehicles, reducing the
12 sulfur content of diesel fuels will also significantly
13 reduce the particulate emissions from the existing
14 fleet of diesel trucks and buses. And as I noted
15 earlier, it allows the installation of retrofit
16 devices. Reducing the sulfur content to the level
17 proposed by EPA alone will reduce PM emissions by
18 approximately 20 percent.

19 We are examining whether the sulfur
20 reductions can be accomplished more quickly, allowing
21 for immediate emissions reductions and general use of
22 treatment devices well before 2006, the proposed date
23 of implementation. Our written comments will address
24 that issue.

25 This sulfur reduction only applies to fuel

1 that will be used by highway vehicles. We recommend
2 the sulfur reductions be extended for use in off-road
3 vehicles and diesel-powered construction and farm
4 equipment as well.

5 Cleaning up diesel fuel by 97 percent, in
6 tandem with its proposed emission standards, will allow
7 the EPA to cut NOx emissions from heavy-duty
8 diesel-powered vehicles by 95 percent, and soot by
9 90 percent.

10 While EPA proposes to fully implement the
11 particulate matter emissions standards in 2007, it
12 proposes to phase-in the NOx standard over four years.
13 Our office is studying the feasibility of shortening
14 the phase-in schedule, and plans to submit further
15 comments to the EPA on this issue.

16 Having learned from the emissions testing
17 experience with diesel engine manufacturers, the EPA
18 should also continue to take measures to ensure that
19 the heavy-duty vehicles are meeting the emissions
20 standards on the roads, not just during engine tests.
21 And the new rule should address that issue.

22 Lastly, we would like to commend EPA for
23 proposing a cost-effective program that will result in
24 tremendous gains for the environment and the public
25 health.

1 Thank you for providing the opportunity for
2 our office to testify. We'll look forward to
3 continuing to work with the EPA toward cleaner air and
4 improved public health. Thank you.

5 MS. MARTIN: Thank you very much. Christine
6 Vujovich.

7 MS. CHRISTINE VUJOVICH: Good afternoon,
8 Ms. Martin. My name is Christine Vujovich. I am the
9 Vice President for Environmental Policy and Product
10 Strategy for Cummins Engine Company.

11 Cummins manufactures heavy-duty diesel and
12 natural gas engines for a variety of applications,
13 including marine, agriculture, construction, stationary
14 power and heavy-duty on-road vehicles, the subject of
15 the proposal before us today.

16 Before providing you with the Cummins
17 specific comments, I wanted to express Cummins' support
18 of the comments made by the engine manufacturers
19 earlier today, and those of the diesel technology forum
20 later this afternoon.

21 Cummins has long appreciated the opportunity
22 to participate in the public hearing process for
23 rulemaking. Doing so challenges us to fully understand
24 what it takes to satisfy the needs of society. And
25 based on this understanding, offer constructive

1 suggestions for enhancement or alternatives to EPA's
2 proposals.

3 As a company, we are absolutely committed to
4 pursuing technologies that benefit the environment. We
5 are equally committed to providing products that offer
6 superior performance and meet our customer's
7 expectations.

8 EPA's proposal is significant in many ways
9 today. It, for the first time, recognizes the
10 importance of low-sulfur fuel in implementing
11 technologies to reduce nitrogen oxides and particulate
12 matter from diesel engines. It also represents the
13 biggest percentage reduction of NOx and PM of any
14 previous rule.

15 We support these efforts to improve
16 emissions, but we do have our concerns when it comes to
17 how the proposed reductions will be accomplished. The
18 complex array of after-treatment technologies and
19 controls that are necessary to reduce PM and NOx
20 together, as of today, do not exist outside of the
21 lab.

22 Beyond this, there are various uncertainties
23 embedded in this proposal that complicate our ability
24 to thoroughly assess the impact of these rules. Among
25 them are the test requirements for which we have no

1 final knowledge; measurement capability for which
2 instruments do not currently exist; and many others.

3 I have chosen to focus today only on the
4 current state of technology purported to be needed to
5 achieve these standards.

6 We have monumental challenges to overcome
7 before we can contemplate whether what the EPA is
8 proposing is practicable. Therefore, I am here today
9 to urge EPA to slow down the review process. Instead
10 of rushing to finalize these rules by the end of the
11 year, Cummins asks the EPA to take a more measured
12 approach that will allow for the careful assessment of
13 the technology necessary to meet these goals.

14 Diesel engines are significantly cleaner than
15 they were even just ten years ago, and progress will
16 continue. By 2002, NOx emissions from our heavy-duty
17 products will have been reduced by 87 percent, and PM
18 emissions by 90 percent from their unregulated levels.

19 This has been done in steps, with each step
20 preceded by a notice of proposed rulemaking, such as
21 this one. There is a significant difference, however,
22 between this rulemaking and those that have come
23 before. The majority of the reductions achieved to
24 date have been through in-cylinder and engine
25 sub-system control technologies. Technologies which,

1 as engine manufacturers, we specify and install as part
2 of the assembly of the engines.

3 This reduction will be the first time that as
4 manufacturers of record for certification, the
5 emissions capability and the useful life of our entire
6 automotive products depend on the suppliers outside our
7 sphere of development and production. That is to say,
8 we must rely on technologies that we neither make nor
9 install.

10 I am certain, however, that the
11 after-treatment suppliers are actively researching and
12 inventing the systems necessary to trap sulfur, filter
13 particulates, chemically reduce oxides of nitrogen, and
14 oxidize whatever hydrocarbons might slip through the
15 systems. But this work is being done in carefully
16 controlled lab situations right now -- where it should
17 be -- but one pollutant control system is optimized at
18 a time.

19 The truth is that none of these complex
20 systems where NOx and PM are controlled together to
21 these very low levels is developed to even a point of
22 adequate laboratory demonstration, let alone field
23 tests.

24 Furthermore, active regenerative controls
25 which permit the continued use of the catalysts have

1 not been developed, so anyone's statement today that
2 these systems are practicable is really unfounded.

3 Many of you on the EPA panel know that I have
4 been participating in the development of environmental
5 regulations and controls for over 20 years. In those
6 20 years, this is the first time that my company is
7 unable to ascertain whether the standards will be
8 achievable at this time in the rulemaking process.

9 It is not that we aren't trying to do that.
10 We fully support the air quality improvements that this
11 effort represents. Nor is it that we are unfamiliar
12 with the technology options. In fact, it is simply
13 because at this time we just don't know the
14 capabilities of all these technologies that are
15 necessary.

16 We expect that a new regulation will be in
17 place in 2007. There's no reason not to take the time
18 now to make certain that we get it right for 2007.

19 We have the time to approach this rulemaking
20 in a systematic way, so that those who must certify the
21 technology have the opportunity to establish its
22 practicability before they commit to achieving any
23 specific emissions level.

24 We also have the time to approach this
25 rulemaking in a systematic way, so that those who must

1 develop the technology can assure its effectiveness
2 before they commit to its reliability. That's only
3 fair and it's only responsible.

4 Now one might ask, "What's the difference?
5 Why not finalize the standard at the end of the year?
6 Then Cummins and all the rest will have nearly six
7 years of lead time to develop the technology to achieve
8 the emission standards. After all isn't lead time what
9 the manufacturers want?"

10 The point is, there is a difference. On the
11 one hand, having final rules set by the end of this
12 year would provide many years to sort out the
13 technology to achieve very low emissions standards.
14 And on the other hand, we would have agreed to a final
15 rule without any certainty that the technology we
16 suspect will be necessary is even a viable option.

17 The last time EPA permitted us a long lead
18 time -- and I believe it was six years -- was when EPA
19 and the manufacturers negotiated the year 2004
20 regulations. In that case, we knew what the standards
21 would be; but, most importantly, we had real experience
22 with workable technology that was required to achieve
23 those 2004 levels. The exhaust gas re-circulation
24 technology already existed, and the wonderful lead time
25 enabled us to effectively apply EGR to the heavy-duty

1 engines with some confidence that we would meet these
2 standards on the Federal Test Procedure by 2004.

3 In today's case, we to have rely on
4 technologies for which we have no proof of reliability,
5 durability, useful life, practicability, or cost. Thus
6 committing to any standard with even six years of lead
7 time, but having no out-of-lab experience with the
8 technology, is unreasonable and irresponsible.

9 Our customers, and the public, deserve to
10 know with confidence that manufacturers will deliver on
11 their commitments. The only way we can get improved
12 air quality is if there is a demand for the technology
13 that brings about the improvement. If the technology
14 is disruptive to the operation, or is cost prohibitive,
15 then no one buys and no one benefits.

16 It is imperative that manufacturers be
17 permitted the time to carefully assess the technology
18 in order to confidently provide the emissions control
19 we will need to deliver. Cummins, for one, will be
20 much better able to commit to the public its abilities
21 and levels of control, if it is given the time to fully
22 asses the technology and Cummins' ability to apply that
23 technology. This company is committed to providing the
24 air quality needs of our customers and society at
25 large.

1 But once again, we strongly recommend that
2 EPA keep open this rulemaking beyond the end of the
3 year to allow us and others, yourselves included, to
4 more carefully and responsibly assess the technologies
5 necessary to meet our collective goals.

6 Thank you for your attention, and at the
7 appropriate time I will be happy to answer any of your
8 questions.

9 MS. OGE: Thank you. Ms. Williams, good
10 afternoon.

11 MS. STEPHANIE WILLIAMS: Thank you. My name
12 is Stephanie Williams, I'm the director of
13 Environmental Affairs for the California Trucking
14 Association. Our members represent 2,500 truck
15 companies and suppliers that operate into and out of
16 California. The majority of our membership is
17 interstate registered.

18 I'm here today to support EPA and their
19 efforts at passing a 15 parts per million diesel fuel
20 standard cap, along with the 0.01 grams per break
21 horsepower-hour particulate standard, and the 0.2 NOx
22 standard.

23 The California Trucking Association is taking
24 our mission for clean air on the road for five reasons,
25 and the first one is air quality.

1 Unlike some of the other states who are
2 coming into the same kinds of considerations,
3 California has been under them for many years. Air
4 quality is a zero sum game.

5 State implementation plans require states to
6 sit down, come up with an inventory, figure out their
7 emissions. Ozone and (inaudible) are on the horizon.
8 In California, Sacramento and the South Coast will not
9 meet the attainment dates, unless serious concerns are
10 taken on diesel fuel.

11 As a regulated industry, if we don't have a
12 national fuel standard, we're going to end up with
13 regulations on trucks that interfere with operation,
14 time of day, and other problems that put our truckers,
15 and truckers coming into our state, in a very bad
16 competitive disadvantage.

17 It is important to have a national fuel
18 standard. The trucking industry is the end user. We
19 don't make fuel, we don't make trucks. We bring goods
20 to market. And we need to do that in a safe,
21 environmentally considerate engine. And that's what we
22 are asking for today.

23 The ozone standards and PM standards are what
24 drive this hearing, and should drive this hearing.
25 There should be no other consideration. Federal law

1 requires us to meet standards based on the air quality
2 in our communities. The public wants diesel cleaned
3 up. To take the pressure off the trucking industry, a
4 national fuel standard is the only suitable remedy.

5 You can't ignore the inventory, you cannot
6 blame the railroads or off-road. Emission standards
7 start with the smallest engine first. What would have
8 happened if the car people pointed to the trucks and
9 said why aren't you going after them?

10 You start with the technology that's
11 feasible, and you move forward to avoid diesel bans in
12 communities, which will be what happens next. You'll
13 have communities like the gentleman who's sitting next
14 to me, that are targeting the very trucks that we want
15 to use because the emission standards aren't tight
16 enough. As a trucking representative, we can't change
17 the emission standards on our trucks. We can't make
18 different fuel.

19 The next four reasons that we support this
20 proposal are economic. Regional diesel fuels are a
21 disaster for the trucking industry. Regional diesel
22 fuels are a windfall for the oil companies.

23 In California in 1993, we introduced
24 California Air Resources Board diesel. Car diesel
25 number two comes in at about 120 parts per million

1 sulfur. Much cleaner than the fuel used in the other
2 49 states. 350 is the average federal fuel sulfur
3 standard from all our testing outside the State of
4 California.

5 What happened with this proposal is a fuel
6 island was created. Diesel fuel prices shot up, not
7 because there wasn't enough diesel fuel, because the
8 number of people producing diesel fuel had a greater
9 hold on the market. The profits of oil companies were
10 investigated by the Attorney General, and still are to
11 this day.

12 What I'm saying on a regional fuel standard
13 is the only beneficiary are the oil companies. The
14 nation needs a national clean fuel standard. The
15 reason for this is price and supply.

16 If all states are competing in the market,
17 they can bring clean diesel fuel to the states, to
18 communities, for a cheaper price than if we allow the
19 oil companies to regionalize fuel and Texas has a fuel,
20 California has a fuel, the Northeast has a fuel,
21 everyone could have a dirty fuel, we would pay more for
22 fuel in this nation because of the regionalization than
23 we would if we had the cleanest fuel possible that EPA
24 is asking for today. Regional diesel fuels are a bad
25 economic decision for this country.

1 Fuel prices and supply is the second economic
2 reason that we support this proposal. As has been said
3 many times, I'm not going to go over it again today.

4 15 ppm maximizes emission controls with fuel,
5 eliminates enough sulphur so the by-products of
6 hydrochloric sulfates don't come out, H₂SO₄, spoiling
7 the traps. That is a maintenance problem for the
8 trucking industry, and there is a fuel penalty. When
9 you go above 15 ppm fuel, the trucker, the end-user,
10 pays the economic cost in reduced fuel economy. That's
11 not fair.

12 The next is maintenance. The maintenance
13 costs associated with this rule are based on the fuel
14 standard. Anything above 15 ppm disadvantages the
15 end-user. The spoiled emission controls for the
16 particulate trap and the NO_x adsorber, which are the
17 preferred technology by the end-user -- the
18 continuously regenerated PM trap and the NO_x
19 adsorber -- are spoiled by anything above 15 ppm.

20 It would be unfair to the trucking industry
21 to force manufacturers to provide a product that would
22 be inferior in maintenance.

23 And finally, diesel fuel is right now the
24 backbone of this country. To preserve the use of this
25 technology, EPA needs to act today. There are areas in

1 the state that are banning diesel, because it's not
2 meeting the emission requirements.

3 On Friday, the South Coast Air Quality
4 Management District banned the use of diesel fuel in
5 the four counties in the area: Riverside, Orange, LA,
6 and San Bernadino. No more diesel tractors, trucks, or
7 buses can be purchased there. That is the biggest
8 reason that EPA needs to reformulate diesel fuels to
9 15 ppm and adopt these standards. Thank you very
10 much.

11 MS. OGE: Thank you. Ms. Cooper.

12 MS. JOSEPHINE COOPER: Good afternoon. My
13 name is Jo Cooper, and I'm the President and Chief
14 Executive Officer of the Alliance of Automobile
15 Manufacturers.

16 Our 13 member company represents more than
17 90 percent of US vehicle sales. It seems like deja vu,
18 it's only been a year, but it seems like yesterday we
19 were here talking about the Tier 2 emission standards
20 for sulfur in gasoline. So as we start this, I think
21 we can all look back and now look forward.

22 The Alliance's main interest in this
23 rulemaking today is to preserve diesel engines as an
24 option for the light-duty market. EPA stated in its
25 proposal that diesel fuels, diesel vehicles, have

1 inherent advantages over the gasoline vehicles with
2 respect to fuel economy, lower greenhouse gas emissions
3 and lower evaporative hydrocarbon emissions.

4 Our members are working hard to advance state
5 of the art diesel technology so that it will meet the
6 Tier 2 emission standards adopted last year. The most
7 critical factor in this endeavor is quality of the
8 fuel, especially sulfur. The emerging new emission
9 control technologies for diesel engines simply are not
10 viable without sulphur-free fuel.

11 So we applaud EPA for taking this crucial
12 first step toward enabling highly efficient, advanced
13 technology diesel vehicles in this country. It opens
14 the door to continued investment in clean diesel
15 technologies, which are advancing rapidly. We say this
16 proposal is a first step, because it stops short of
17 enabling the new clean diesel technology to operate at
18 optimum levels.

19 Many stakeholders support reducing sulfur to
20 ultra-low levels. Earlier today we heard the testimony
21 of the Engine Manufacturers Association. Like us, it
22 is depending on ultra low-sulfur diesel fuel to enable
23 the new clean diesel technology. The Manufacturers of
24 Emissions Controls Association, state and local air
25 pollution control officials, environmentalists all

1 support ultra-low sulfur diesel fuel to enable these
2 new technologies.

3 We believe the EPA has done several things
4 right with this proposal. First, the agency has
5 reinforced the notion that the vehicle and its fuel are
6 an integrated system, and should be treated as such for
7 both the existing and future on-highway diesel fleets.

8 Second, EPA has proposed a dramatic reduction
9 in diesel fuel sulfur level for the purpose of enabling
10 new after-treatment technology. Numerous research
11 programs are demonstrating just how clean diesel can
12 be. Recent tests show that ultra low-sulfur diesel
13 fuel allows diesel buses with advanced controls to run
14 as clean or cleaner than buses running on compressed
15 natural gas. I think you probably agree with us that
16 this is remarkable.

17 In this sense, the proposal goes beyond the
18 Tier 2 rulemaking, which only allowed existing
19 technology to meet the standards. With Tier 2 sulfur
20 levels up to 80 parts per million in gasoline, auto
21 makers probably will be unable to introduce lean-burn
22 gasoline engines in this country. I would be remiss if
23 I didn't note that we hope EPA eventually will seek to
24 enable these new gasoline technologies by reducing the
25 sulfur and gasoline to near zero.

1 Third, EPA has proposed to introduce the new
2 fuel on a nationwide with a common deadline across the
3 country, and very limited exceptions. This is
4 necessary to prevent the fuel from contaminating
5 sensitive new after-treatment systems. Besides
6 reducing emissions all around the country, it will help
7 ensure that trucks will be able to deliver their goods
8 throughout the US.

9 And fourth, EPA's has proposed introducing
10 the cleaner fuel before the new heavy-duty technology
11 will have to be introduced. To the extent the proposed
12 cap leads to near-zero sulfur fuel while automakers are
13 still developing their Tier 2-compliant technologies,
14 it will encourage them to continue working on the new
15 fuel efficient diesel technologies. The future is
16 bright for this technology, but additional investments
17 are needed. And the availability of sufficiently clean
18 diesel fuel will encourage that investment.

19 Does this proposal go far enough for Tier 2
20 diesel vehicles? Not quite. More needs to be done.
21 The fundamental problem is getting the vehicle to meet
22 the nitrogen oxide and particulate matter standards at
23 the same time, as EPA has recognized. It will require
24 near-zero sulfur levels -- up to a 5 ppm cap -- for the
25 after-treatment systems to be used on these vehicles to

1 meet new emission standards throughout their useful
2 life.

3 Near-zero or sulfur-free is the level that
4 automakers around the world are endorsing. The
5 recently updated World-Wide Fuel Charter explains that
6 "sulfur-free" means a cap of between 5 and 10 ppm, to
7 be further defined as more data become available. And
8 I would commend the World-Wide Fuel Charter to your
9 observations, if you haven't seen it. In this country,
10 the Tier 2 emission standards justify adopting the
11 lower limit. Emerging data from the Department of
12 Energy Research support this view.

13 The Manufacturers of Emission Controls
14 Association continues to recommend a cap of 5 parts per
15 million, though supporting a 15 part per million cap on
16 the assumption that most of the fuels will be below
17 10 parts per million.

18 The automakers are much less certain of this
19 possibility and expect that refiners, as they improve
20 their capability, will learn how to shrink their
21 compliance margins from existing levels. Smaller
22 compliance margins will enable refiners to market much
23 more diesel fuel with a sulphur level above 10 parts
24 per million, and this will likely be too high for both
25 heavy- and light-duty vehicles.

1 Besides sulfur, EPA also should adjust other
2 fuel properties, as described in the World-Wide Fuel
3 Charter. Including cetane, aromatics, and
4 distillation.

5 Is our position realistic? Are we asking too
6 much? We think not. Refiners already are marketing
7 clean diesel fuel in this country and abroad. Sweden,
8 England, Germany are all on their way, as are Equilon
9 and ARCO in the United States.

10 The key message: Refiners know how to make
11 clean diesel fuel. Tax incentives and market demand
12 will bring this fuel to market even faster than public
13 estimates have predicted. We urge EPA to focus on its
14 incentive packages as a way to encourage the
15 marketplace to make the new fuel widely available and
16 as soon as possible.

17 We understand the concern that some refiners
18 may choose not to make on-highway diesel fuel. We
19 believe that fuel supply will be driven by
20 profitability, not cost.

21 To the extent that maintaining low sulfur
22 levels throughout the distribution system becomes a
23 challenge, we believe in the collective problem-solving
24 capabilities of the free enterprise system to get there
25 by the 2006 deadline.

1 We've come a long way in the debate over
2 sulfur. Two years ago, automakers petitioned the EPA
3 to reduce sulfur and gasoline to California levels.
4 Today, everyone accepts the critical role that sulfur
5 plays in our national environmental policy. Nations
6 around the world are working to reduce sulphur in both
7 gasoline and diesel fuel.

8 The issue is no longer whether to reduce
9 sulfur, or even that near-zero sulfur fuels eventually
10 will be needed -- but when will these fuels become
11 available.

12 For our part, our members want to bring
13 advanced technologies, such as the highly
14 fuel-efficient turbocharged direct injection, and
15 hybrid electric diesel vehicles to the point where they
16 can operate cleanly and meet consumer needs.

17 The proposed 15 parts per million cap on
18 diesel fuel sulfur is a very strong step toward helping
19 clean diesel technology take its place among our
20 options for the future. With diesel fuel quality on a
21 par with the World-Wide Fuel Charter at sulfur-free
22 levels, the American public would be able to get the
23 full benefit of its investments in these advanced
24 technologies. Thank you.

25 MS. OGE: Thank you. Mr. Williams.

1 MR. RON WILLIAMS: Good afternoon. My name
2 is Ron Williams. I am an owner, President and CEO of
3 Gary-Williams Energy Corporation, a Denver-based
4 independent oil and gas company. Our primary asset is
5 50,000 barrels per day crude oil refinery in Wynnewood,
6 Oklahoma. Company wide, we have about 275 employees
7 and fall within the definition of small business
8 refiner used for the proposed diesel sulfur
9 regulations.

10 Small business refiners face the same
11 problems as the majors with this rulemaking, but in
12 most cases are problems are somewhat greater. We are
13 less able to raise the necessary capital and to endure
14 the related increased operating costs, which
15 desulfurization investments will require. We face
16 proportionately higher costs, because we do not enjoy
17 the same economies of scale. And because of our size,
18 we cannot compete effectively for the limited
19 construction and energy resources.

20 Many of us are faced with meeting the
21 stringent Tier 2 gasoline standards in approximately
22 the same time frame. In our case, the impact of the
23 combined proposals is somewhat devastating, and could
24 cause us to shutdown our refinery -- with disastrous
25 results on the local economy.

1 The SBREFA process offered an important
2 opportunity for us and other small refiners to explore
3 issues related to this rulemaking, and to express our
4 deep concerns about the disastrous impact of a very
5 stringent standard, particularly when coupled with an
6 almost simultaneous Tier 2 gasoline standards.

7 There is no one solution that will enable all
8 small refiners to survive. However, we do very much
9 support the effort to provide cleaner fuels. However,
10 we were extremely disappointed that the preamble to the
11 proposed rule includes no provision that would
12 accommodate a small refiner in the near term.

13 We can see only three possible avenues which
14 might be of benefit. Number one, our greatest priority
15 is access to the capital required to install the
16 desulfurization equipment. And we believe that it
17 would be very beneficial and appropriate for the
18 administration to consider tax credits, loan
19 guarantees, and other incentives which might enable
20 small refiners to accomplish this together.

21 We estimate in our case that our capital
22 costs to reach 15 parts per million diesel sulfur
23 alone, for a total of approximately \$46 million. That
24 is more than twice what we paid for the refinery in
25 1995. In addition, our annual operating costs and

1 maintenance costs will increase from five to six
2 million dollars per year.

3 Number two, if we must install currently
4 available gasoline desulfurization equipment for the
5 2004 interim deadline, we estimate engineering,
6 construction, and capital costs at \$50-75 million, for
7 gasoline alone. And an increase in the annual
8 operating costs of at least \$5 million.

9 We know of no possible financing sources
10 willing to provide that kind of capital to our small
11 business, particularly in the face of the increased
12 capital costs for diesel desulfurization.

13 We strongly endorse the concept of
14 flexibility on the gasoline standard that the small
15 refiner is also subject to the diesel standard. We
16 seek delay of all Tier 2 gasoline requirements until
17 the year 2008, at the earliest for qualified small
18 refiners.

19 The EPA has said it will consider temporary
20 waivers based on extreme hardship circumstances on a
21 case-by-case basis. We are deeply concerned, however,
22 about the potential arbitrariness and timing of
23 case-by-case negotiations. We think that hardship
24 extension should automatically be granted for at least
25 three full years before the 2004 Tier 2 implementation

1 deadline.

2 At the very least clear, straightforward and
3 easy to administer hardship criteria must be delineated
4 immediately with a small business refiner concurrence,
5 so that our companies will be able to determine their
6 eligibility. We will, in our written comments, address
7 in some detail the criteria that we think will be
8 relevant and appropriate for a temporary hardship
9 waiver. We do need clarification of the hardship
10 situation immediately.

11 Number three, retaining the small refiners'
12 access to the off-road market is our third
13 recommendation. It is critically important that we
14 know as soon as possible the EPA's intention for the
15 regulation of off-road diesel.

16 We believe that it is imperative that small
17 business refiners be given an exemption from any new
18 off-road standard, and allowed to continue to sell at
19 the current level of diesel fuel in the off-road
20 market.

21 In our case, the great majority of our diesel
22 product currently is used in rural agriculture
23 communities. Some measures must be adopted to conserve
24 the off-road market for small businesses, and prevent
25 larger companies from dumping higher sulfur diesel

1 fuels and diluting that market.

2 And we have other written comments addressing
3 the other EPA proposed options, but I don't want to
4 take your time with those now.

5 MS. OGE: Thank you. Mr. Slaughter.

6 MR. BOB SLAUGHTER: Good afternoon, Margaret
7 and members of the panel. My name is Bob Slaughter,
8 I'm General Counsel of the NPRA, the National
9 Petrochemical and Refiners Association. NPRA is a
10 trade association of virtually all and large and small
11 US refiners and petrochemical producers who have
12 processes similar to refiners.

13 NPRA is deeply concerned about the impact of
14 EPA's new diesel sulfur proposal. We do not believe
15 that it is possible to consistently maintain needed
16 supplies of highway diesel within the 15 ppm sulphur
17 cap level.

18 Although some refiners may be able to produce
19 some amount of this diesel, many would be forced by its
20 high costs to limit or forego participation in the
21 highway diesel market. This would reduce supplies well
22 below those available under a more realistic sulfur
23 cap.

24 In addition, with the current logistics
25 infrastructure, it will be extremely difficult to

1 deliver highway diesel with a 15 ppm sulfur cap to
2 consumers and maintain the integrity of the sulphur
3 level of the product. This highway diesel must share a
4 distribution system with other products that have
5 significantly higher sulphur levels.

6 At the proposed 15 ppm sulfur level, a
7 significant amount of highway diesel will have to be
8 downgraded to a higher sulfur product due to product
9 contamination at the interfaces. This means a loss of
10 highway diesel supply. With the enforcement at retail
11 as opposed to the refinery gate, refiners would be
12 forced to target their production to 7-9 ppm sulfur in
13 order to account for the increased sulfur content
14 picked up in the distribution system after the product
15 leaves the refinery.

16 In short, we view this proposal as a
17 blueprint for future fuel shortages and severe economic
18 impacts. It threatens to leave American consumers a
19 legacy of scarce and unnecessarily costly energy
20 supplies.

21 Throughout protracted discussions with the
22 EPA, the refining industry suggested a more reasonable
23 way to reduce diesel emissions. We favor lowering the
24 current 500 parts per million diesel sulfur cap to
25 50 parts per million, which will be a 90 percent

1 reduction. This is a very significant step. We
2 believe it will enable diesel engines to meet the
3 particulate matter standards sought by EPA, and also to
4 achieve significant NOx reductions.

5 Our plan is still expensive, we estimate it
6 will cost the industry roughly \$4 billion to
7 implement. But unlike the much more costly EPA
8 proposal, this level of sulfur reduction is
9 sustainable. Most refiners would choose to make the
10 more affordable investments needed to make 50 ppm
11 diesel.

12 On the other hand, under EPA's proposed
13 program, only some refiners would invest in the
14 expensive new equipment necessary to produce 15 ppm
15 diesel. Many others would be unable to make the large
16 investments necessary to produce the product. They
17 would find other uses or markets for their current
18 diesel output, significantly reducing the supply of
19 highway diesel fuel available and creating volatility
20 in prices.

21 More than 30 percent of the current supply of
22 highway diesel could be lost until additional
23 investments are made and new desulfurization capacity
24 is built. This would be in response to higher diesel
25 prices resulting from a market shortage. It could take

1 as long as four years for the industry to respond to
2 these market factors at that time.

3 Some refineries will would likely go out of
4 business. The proposed 15 ppm is estimated to cost the
5 industry somewhere between \$8-10 billion. This amount
6 comes on top of the \$8 billion in costs the industry is
7 already incurring to implement EPA's gasoline sulfur
8 program in the very same time frame.

9 A study to be released this week by the
10 National Petroleum Council, a joint industry/government
11 body, concludes refiners do not have the capability to
12 make these investments within this time frame, and
13 additional time is required for the low-sulfur diesel
14 investments.

15 When a refinery closes, we lose its entire
16 output: Gasoline, diesel, jet fuel, home heating oil.
17 With the demand for petroleum products projected to
18 increase, we, as a nation, cannot afford to lose any
19 more refineries. Unfortunately, the agency appears
20 unwilling to make the major changes in this proposal
21 which are needed to avoid supply problems and resulting
22 price volatility.

23 The industry's warnings about this rule are
24 well-founded. One of our members, CITGO Petroleum, has
25 facilities at the Lyondell-CITGO Refinery, which are

1 referenced in EPA's proposed rule as having the diesel
2 desulfurization technology capable of producing 15 ppm
3 sulfur diesel fuel.

4 Based on actual operating experience,
5 however, the capital and operating costs are more than
6 twice as high at the 15 ppm sulfur cap than has been
7 claimed in the proposal, and the ability of technology
8 to consistently produce below 15 ppm diesel is
9 problematic.

10 What looks simple in theory doesn't always
11 work in practice. The industry's scarce capital is
12 needed for implementation of the gasoline sulphur rule
13 and maintaining or expanding capacity to meet the
14 increased demand for gasoline, diesel, and other
15 products. Clearly, we should not ignore the warning
16 signs of an already stressed supply system and rush to
17 implement a plan like this diesel proposal, which
18 really is based on little more than wishful thinking.

19 There are other serious problems with both
20 this diesel program and the time frame in which EPA
21 wants the changes. Engineering, planning, and
22 construction resources will be in sort supply due to
23 the implementation of the gasoline sulfur program in
24 the same time frame. And we know that the demand for
25 these resources comes from not only the US

1 requirements, but from efforts to reduce sulfur in
2 Canada and Europe as well.

3 We also know that gasoline sulfur will exceed
4 the permitting capabilities of EPA and state agencies,
5 which means that their resources could be unable to act
6 on applications for diesel-sulfur related permits in
7 the same time period. Few synergies exist between
8 steps necessary to implement sizable sulfur reductions
9 for both gasoline and diesel. It is counterproductive
10 to attempt to do both in the same period. And the
11 unrealistic level of diesel sulfur reduction sought by
12 EPA strongly suggests that efforts to comply with it
13 will fail.

14 EPA argues that its proposal is needed to
15 enable heavy-duty engines to meet stringent NOx
16 standards in the 2007-10 time frame. Of course, that
17 standard was arbitrarily selected. It is considerably
18 lower than NOx standards for the same period in Europe
19 and Japan, and is probably unrealistic. The
20 \$10 billion plan for 15 ppm diesel is largely based
21 upon this arbitrary and unattainable target.

22 Fuel transportation systems can become
23 severely stressed. The refining industry is faced with
24 more than 12 regulatory actions over the next ten
25 years. The cost of these programs, which are largely

1 uncoordinated, is astronomical. As a result of this
2 crushing burden on refiners and fuel distributors, we
3 are starting to see signs of stress in the system. The
4 impact of unforeseen situations, such as refinery
5 outage, a pipeline malfunction, or even the weather, is
6 magnified under such conditions.

7 We strongly believe that diesel sulfur level
8 should be reduced, but EPA should not adopt a
9 regulation that puts the nation's energy supply at
10 risk. Fuel and engine emission standards should be
11 based on developed technologies and cost effectiveness.
12 An adequate supply of sulfur diesel for highway cannot
13 be assured, and distribution of this 15 ppm fuel is
14 also probably not feasible.

15 NPRRA urges the agency to discard that
16 approach in favor of the more practical and sustainable
17 50 ppm diesel sulfur cap, which the refining industry
18 advocates.

19 I want to thank you again for this
20 opportunity to appear, and will be glad to respond to
21 any questions that you have.

22 MS. OGE: Thank you very much. Mr. Ken
23 Colburn.

24 MR. KEN COLBURN: Thank you. My name is Ken
25 Colburn, and I'm the Director of the Air Resources

1 Division of the New Hampshire Department of
2 Environmental Services.

3 Today I speak on behalf of the NESCAUM
4 Organization, the Northeast States Coordinated Area
5 Management, which represents the air quality control
6 programs in the eight Northeast states.

7 The need to reduce pollution from heavy-duty
8 engines and vehicles is clear. Construction, buses,
9 and other heavy-duty vehicles are significant
10 contributors to elevated levels of ozone, particulate
11 matter, and several key toxic air pollutants of concern
12 in the Northeast.

13 For some pollutants, heavy-duty engines
14 single-handedly represent the majority of the
15 emissions. Within the Northeast corridor, for example,
16 they are responsible for approximately one-third of the
17 oxide emissions, three-quarters of the motor vehicle
18 related PM, and 60 percent of the aldehyde emissions,
19 some of which are probable human carcinogens.

20 As a result, reducing heavy-duty engine
21 emissions is a top priority in the Northeast. In fact,
22 Northeast states have already dedicated significant
23 resources for reducing emissions from heavy-duty
24 vehicles.

25 For example, we have the implementation of

1 diesel smoke capacity enforcement programs throughout
2 the region. Several retrofit programs, including those
3 on construction equipment in Boston and on urban buses
4 in New York. The development of other retrofit
5 programs in collaboration with the EPA under its VMEP
6 program. And the implementation of SCR demonstration
7 projects undertaken with the manufacturers as part of
8 supplemental and environmental programs.

9 The political commitment that was necessary
10 to implement these initiatives illustrates the
11 sincerity of state's desires to reduce diesel
12 pollution. It's no surprise, then, that the Northeast
13 states are extremely pleased that the EPA has put forth
14 all proposals to substantially reduce pollution from
15 these sources.

16 Attainment of the National Ambient Air
17 Quality standards for ozone is of immediate concern to
18 the states in the Northeast region, and may require
19 substantial VOC and NOx reduction in addition to those
20 anticipated from current stationary sources and motor
21 vehicle control programs.

22 Moreover, the plan reductions won't ensure
23 maintenance of the ozone standard as growth occurs.
24 Urban air shed modelling suggests that NOx reductions
25 on a regional scale are more effective than VOC

1 reductions. So programs that have substantial NOx
2 reduction benefits, such as (inaudible) for heavy-duty
3 diesel engines and vehicles are essential.

4 In addition to reductions needed to attain
5 and maintain the one-hour standard, the NESCAUM states
6 are concerned about the significant health effects
7 associated with long-term exposures to ozone below the
8 current one-hour standard. As a zero threshold
9 pollutant, the health effects from exposure to even
10 moderate levels of ozone are genuine and, at this
11 point, virtually chronic. Unhealthful ozone levels
12 were measured at 56 monitors in the NESCAUM region over
13 the last three years, and have already occurred this
14 spring.

15 Ambient toxic concentrations are also of
16 concern for the Northeast states. Measured annual
17 average concentrations of benzene, formaldehyde, and
18 other toxics exceed cancer risk thresholds throughout
19 the region. Heavy-duty diesels and gasoline vehicles
20 contribute substantially to these concentrations, so
21 it's imperative to reduce toxic emissions from these
22 sources in the region.

23 Particulate matter has also been linked to a
24 broad range of serious respiratory health problems,
25 several of which you have already heard about so I

1 don't need to repeat them here. But California, as you
2 know, has declared particulate emissions from diesel
3 fuel emissions a toxic air contaminate. And several
4 entities, including NIOSH, (inaudible) and EPA, in a
5 draft report, have labeled it a probable human
6 carcinogen.

7 The NESCAUM states support the agency's
8 efforts to use available irrefutable scientific
9 evidence to characterize potential cancer causing
10 elements of diesel exhaust. Scientific evidence of
11 cancer and non-cancer health effects of diesel exhaust
12 exacerbates the existing public concern and frustration
13 over smoking vehicles, buses, trucks, and heavy
14 equipment.

15 This coalescing together of expert and public
16 opinion provides added impetus to timely efforts
17 regarding NOx, PM, and toxic emissions from heavy-duty
18 engines.

19 The NESCAUM states have several specific
20 comments on the EPA proposal, a few of which I'll go
21 over now. We will submit more detailed comments in
22 writing later.

23 The NESCAUM states strongly support the 0.2
24 grams per break horsepower-hour standard for heavy-duty
25 diesel engines in 2007. The standard is both

1 technically and economically feasible using NOx
2 adsorbers. Recent studies of adsorbers have shown
3 greater than 90 percent reductions in diesel NOx
4 emissions, and the EPA proposal provides the
5 manufacturers of diesel engines ample lead time, seven
6 years, to integrate adsorber technology into the new
7 diesel engines.

8 The NESCAUM states also strongly support
9 the .01 gram per break horsepower-hour PM standard.
10 Currently available emission control technology, such
11 as particulate filters, have been shown to reduce PM by
12 90 percent or more in heavy-duty vehicles.

13 Crucial to the widespread introduction and
14 long-term durability of these technologies is a very
15 low-sulfur fuel. Accordingly, the states strongly
16 support EPA's proposal to require refiners to supply
17 diesel fuel capped at 15 ppm sulfur. Desulfurization
18 techniques necessary to reach this level exist
19 commercially today. In fact, several oil companies in
20 the US, including ARCO, are already supplying very
21 low-sulphur fuel to customers.

22 Beyond new heavy-duty engines, the agency's
23 proposal to cap highway diesel fuel sulfur at 15 ppm,
24 will also facilitate retrofitting existing highway
25 diesel vehicles with particulate traps. Given the

1 durability of heavy-duty diesel vehicles, retrofitting
2 existing trucks and buses is an important, readily
3 achievable public health benefit.

4 The introduction and widespread use of
5 low-sulfur highway diesel fuel, including its use in
6 non-road applications, will also allow states to move
7 forward with retrofit programs for non-road vehicle
8 equipment, such as construction equipment. Due to the
9 large NOx and PM contribution from non-road diesel
10 engines, a contribution that approaches or may even
11 exceed that of on-road diesel engines, the NESCAUM
12 states urge EPA to establish parity between highway and
13 non-road engine and diesel standards, and diesel sulfur
14 fuel requirements in the shortest time.

15 Finally, the NESCAUM states strongly support
16 EPA's proposed heavy-duty gasoline engine and vehicle
17 standards. Advances in three-way catalysts and
18 catalytic converters (inaudible) durable and effective
19 emissions control at the high temperatures that can
20 occur when heavy-duty gasoline engines are running at
21 full load.

22 The agency is also proposing more stringent
23 evaporative controls for heavy-duty gasoline vehicles,
24 which will reduce toxic emissions such as benzene and
25 (inaudible), both of which are known human

1 carcinogens.

2 In conclusion, the nature of this heavy-duty
3 engine emissions (inaudible) air quality standards to
4 more effectively protect the public from exposure to
5 ozone, particulates and toxics is evident. Equally
6 evident is the fact that the Northeast air quality
7 problems cannot be solved by state and local measures
8 targeting traditional sources.

9 Further, states are federally preempted from
10 regulating heavy-duty engines and diesel fuel. These
11 facts make it incumbent upon the EPA to move forward
12 promptly and aggressively with the proposals, in order
13 protect the health and quality of the life of over one
14 quarter of the nation's citizens within the NESCAUM
15 region.

16 The NESCAUM states applaud EPA's aggressive
17 initiative to reduce heavy-duty engine emissions and
18 sulphur in diesel fuel. When fully implemented, the
19 current proposal will reduce 2 million tons of NOx per
20 year nationwide. In addition, it will reduce over
21 82,000 tons of PM, and will enable additional
22 reductions through retrofits. Toxics will be reduced
23 by 32,000 tons.

24 The magnitude of this air quality improvement
25 is simply unavailable in any other sector, and the

1 costs are quite competitive with the measures already
2 implemented in other sectors.

3 The health and welfare of the nation cannot
4 afford to miss or delay this opportunity. So that we
5 trust the EPA will move forward with this and finalize
6 the regulations by the end of the year.

7 Thank you and a final comment, some of the
8 thoughts we've had today leave me to recall the rule of
9 thumb developed in (inaudible), of which both you and I
10 are veterans, that when you ask an engineer if you can
11 do something you get nothing but problems; when you
12 tell an engineer to do something, you get nothing but
13 solutions.

14 MS. OGE: A couple of your comments were
15 consistent with the supply and distribution problems as
16 we were developing the proposal. We have analyzed the
17 potential supply and distribution issues, and we have
18 put forward our position, our proposed position on the
19 supply and distribution problems.

20 We would very much appreciate it if you have
21 specific data analysis that would lead us to believe
22 something contrary to what we propose, we would very
23 much appreciate it if you would get that information in
24 writing during the comment period.

25 And we still have until August 14th. So then

1 we would encourage you, if you have actual information
2 that would lead us to a different conclusion than the
3 conclusion that we have put forward, which is, you
4 know, adequate supply and distribution problems, it
5 would be very important to us as we're moving forward
6 towards putting the final law together.

7 MR. WILLIAMS: As you know, we'll be glad to
8 supply data as part of our comments for you.

9 MS. OGE: Thank you very much. Thank you for
10 coming forward to testify.

11 I would like to ask for the next panel
12 members to please come forward. State Senator Tom
13 Duane, Mr. Alec Evans, Mr. Gerald Faudel, Mr. John
14 Duerr, Mr. Carl Johnson, Mr. Tim Zellers, and Ms. Marie
15 Curtis.

16 Senator Duane, good afternoon and welcome. I
17 will start with you.

18 MR. TOM DUANE: Good afternoon ladies and
19 gentlemen. I'm New York State Senator Tom Duane,
20 representing the 27th Senatorial District in
21 Manhattan. And by EPA's own monitoring data, the
22 district I represent is a densely populated,
23 demographically diverse area, with approximately
24 300,000 residents, contains some of the most highly
25 polluted air in the United States.

1 On behalf of my constituents, I am here today
2 to urge you to adopt these proposed new emission and
3 fuel content standards without any dilution of their
4 requirements and without any delay in the time frame
5 for implementation.

6 As we speak, rates of asthma and other
7 respiratory elements are frighteningly high and rising
8 in much of New York City, and particulate matter or
9 soot is found in our air at levels well above what
10 federal guidelines are for health and safety
11 recommendations.

12 This proposed package of new regulations
13 would go a very long way toward reducing these urgent
14 health problems, and could not come too soon. With
15 volumes of traffic, particularly diesel fuel powered
16 traffic, steadily climbing in our city, and with the
17 possible introduction over the next several years of
18 new types of diesel fuel vehicles, strict reductions in
19 the output of dangerous pollutants from diesel vehicles
20 are absolutely necessary to preserve the health of
21 residents of my district, and this city and, indeed, to
22 preserve the very liveability of our communities.

23 It is clearly time for these sorts of
24 regulations to be put in place. A generation ago,
25 federal guidelines which mandated the reduction of lead

1 contented gasoline and introduced the widespread use of
2 catalytic converters to reduce the output of toxic
3 pollutants by motor vehicles in the United States, had
4 a profound impact on the cleanliness and safety of our
5 air. One merely has to travel to any country which
6 does not require such guidelines for gasoline content
7 to perceive the palpable difference in the air one
8 breathes. And sadly, statistics regarding respiratory
9 elements in many of these regions of the world bear out
10 these first-person observations.

11 This new set of proposed guidelines will do
12 much the same for diesel fuel powered vehicles, making
13 them dramatically cleaner in their output, and
14 substantially reduce the amount of pollutants emitted
15 into our air.

16 In a country which is so motor vehicle
17 intensive in its use as ours, strengthening and
18 extending this sort of requirement to include these
19 classes of vehicles is critical. In a city like New
20 York, where people live, work, and play in such close
21 proximity to these sources of dangerous pollutants, it
22 is an absolute public health necessity. It is hard to
23 imagine how much of New York City would meet newly
24 imposed national air quality standards without these
25 strict new regulations in place.

1 More than one in ten Americans lived in,
2 worked in, or traveled to New York City last year.
3 These millions of Americans breathed air with
4 shockingly high concentrations of pollutants linked to
5 lung cancer, leukemia, reproductive and developmental
6 defects, respiratory and cardiovascular diseases, and
7 premature death.

8 Diesel fuel powered vehicles such as trucks
9 were a major contributor to this pollution output, and
10 account for a much higher percentage of such pollution
11 output than in many other parts of the country. New
12 York is, and unfortunately will probably remain for the
13 foreseeable future, dependent upon trucks powered by
14 diesel fuel for commerce and delivery of goods and
15 materials. These trucks, along with diesel fuel
16 powered buses of all sorts, utilize our highways which
17 ring our neighborhoods, and are in uniquely close
18 proximity to where large numbers of people live.

19 In narrow Manhattan island, the most densely
20 populated area of the United States and the destination
21 of by far most of the commuters and visitors to New
22 York City, we are literally encircled by such
23 roadways. Much worse for us, however, these currently
24 highly polluting vehicles very frequently use our city
25 streets not just to get to or from delivery points, but

1 as a means of traversing the New York Metropolitan
2 region.

3 Because of a federal law passed in 1986, a
4 one-way westbound toll is mandated on the
5 Verrazano-Narrows bridge. This has had the unfortunate
6 and dangerous effect of encouraging large truck traffic
7 to find other means of getting across New York City
8 when headed westbound to avoid this steep double toll.
9 All too often, that means taking one of the East River
10 bridges or tunnels to enter Manhattan from its East
11 Side, traveling through the narrow and densely built-up
12 streets of Lower and Mid-Manhattan to get to the
13 Holland or Lincoln tunnels, and exiting Manhattan from
14 its West Side as a means of reaching New Jersey and
15 other points west.

16 We continue to fight to get this unfair and
17 unduly burdensome law changed, and recognize that the
18 EPA cannot necessarily reduce the volume of this black
19 smoke-belching diesel fuel truck and bus traffic we see
20 on our streets, and really right outside our windows,
21 every day. However, with these regulations in place,
22 you can at least significantly reduce the volume and
23 danger of the clouds of smoke which they emit into in
24 the air in our homes, workplaces, parks, playgrounds,
25 and hospitals.

1 The proposed regulations will involve a small
2 increase in costs for the new diesel fuel and new
3 compliant engines it would mandate. However, the cost,
4 as compared to the savings undoubtedly resulting from
5 lowered levels of nitrogen oxides, hydrocarbons,
6 particulate matter or soot, sulphur oxides, carbon
7 monoxide, benzene, acetaldehyde, and butadiene in our
8 air and the health problems which they create or
9 exacerbate, would be quite small.

10 As the regulations allow reasonable time for
11 conversion and compliance, I again urge you as strongly
12 as I can to move forward with the implementation in
13 full, without any weakening amendments or delay.

14 I thank the EPA and the Administration for
15 its hard work, intelligence, and foresight in moving
16 these regulations forward. And I look forward to
17 enjoying, along with my constituents and all my fellow
18 New Yorkers, the safer, healthier air which these
19 regulations will allow all of us to breath. Thank
20 you.

21 MS. OGE: Thank you, Senator Duane. Mr. Alec
22 Evans.

23 MR. ALEXANDER EVANS: Good afternoon. My
24 name is Alexander J. Evans. I'm a student,
25 environmentalist, captain of Haverford College's

1 basketball team, and the outreach coordinator for the
2 Clean Air Council. Most importantly, I'm a brother.

3 My brother, Nicholas is a 26-year old
4 graduate student at Harvard University. He is a
5 budding political theorist who has always maintained a
6 passion for sports. Although he has continually
7 remained active, my brother suffers from an irregular
8 heartbeat.

9 I do not know how many of you in this room
10 have a family member who suffers from a heart condition
11 or other ailment that is affected by air pollution. I
12 can assure you, however, that if a member of your
13 family suffers from an irregular heartbeat, or for that
14 matter, any other serious affliction that is
15 exacerbated by toxic diesel emissions, you will
16 understand the passion of my testimony.

17 Since I was young, I have always looked up to
18 my brother. I owe him so much. He is my role model
19 and I marvel at how much he has managed to teach me.
20 Throughout my childhood I was always amazed at my
21 brother's athletic abilities. I cherish the time that
22 he spent with me in the backyard. From basketball to
23 baseball to soccer, he was always willing to spend time
24 with me. There is no doubt in my mind that my athletic
25 prowess is the direct result of his tireless efforts.

1 As a young child, more than any other pro athlete or
2 entertainer, I looked up to my brother and followed his
3 every step.

4 I will never forget the day when my brother
5 was diagnosed with an irregular heartbeat. I will
6 never forget the sight of my brother running up and
7 down the stairs of the doctor's office with his shirt
8 off and his chest full of devices designed to monitor
9 his heart rate. As I looked at my brother, I wondered
10 how someone who had always been deeply involved in
11 athletics could have an irregular heartbeat. I was
12 worried that something was terribly wrong with my
13 brother.

14 After it was determined that his heart beat
15 at an irregular rate, my brother was told that he would
16 probably never notice his condition. As time passed,
17 however, and the doctors continued to monitor my
18 brother's heart rate, they began to worry that his
19 heart would react adversely to the ever-increasing air
20 pollution of large cities. My brother, to this date,
21 has never had a serious episode. Nevertheless, he is
22 still monitored by doctors and he is restricted from
23 exercising when the national ambient air quality
24 standards for ozone reach or surpass either the 1 or 8
25 hour federal health standards. Essentially the only

1 thing that can seriously aggravate my brother's heart
2 condition is air pollution.

3 My brother is not alone. Millions of
4 Americans suffer from similar conditions. Many of
5 these individuals do not share my brother's luck.
6 People with irregular heartbeats are extremely
7 susceptible to harmful particulates. Particulates,
8 which constitute a majority of the harmful emission
9 divulged from diesel vehicles, interfere with the
10 body's ability to control its heart rate and rhythm.

11 For someone who suffers from an irregular
12 condition, exposure to particulate matter can be
13 fatal. Recent studies have shown that particulate
14 matter directly limits the body's ability to control
15 the human heart rate.

16 The evidence is clear: Emissions from
17 unregulated vehicles have a direct effect on our
18 communities. To make matters worse, thousands of
19 people are unaware that they suffer from an irregular
20 heartbeat. If diesel engines are allowed to keep
21 polluting the air at their current rate, the
22 repercussions will be disastrous. Individuals who once
23 did not have to worry, may soon begin to feel the
24 effects of diesel engine emissions.

25 There is other conditions, such as asthma and

1 lung disease, are also exacerbated by dangerous soot
2 emissions. A recent study estimated that 2,599
3 premature deaths are caused by soot particles each year
4 in Philadelphia alone. Although diesel exhaust
5 specifically endangers children, the elderly, and those
6 living near highways and bus depots, the pollution has
7 an effect on each and every one of us. This is a
8 serious problem.

9 It worries me that my brother may soon have
10 to deal with this issue every day. It worries me that
11 he lives in a city wrought with pollution and dirty
12 air. I pray that the harmful particulates and nitrous
13 oxides emitted from diesel vehicles will never affect
14 my brother, but I am not confident.

15 This proposed rulemaking will have a direct
16 effect on the health of millions of Americans. Not
17 only will it help children, the elderly, and people
18 with other health conditions, but it will help ease the
19 pain for all those connected to anyone with the
20 aforementioned health problems.

21 This proposed rulemaking will have a direct
22 effect on the health of millions of individuals, and
23 all of those who care for them. If this nation cares
24 about the health of its citizens, this proposed
25 rulemaking must be approved. Thank you for allowing me

1 to speak on this crucial issue.

2 MS. OGE: Thank you. Mr. Johnson.

3 MR. CARL JOHNSON: Thank you. Good
4 afternoon. I'm Carl Johnson, Deputy Commissioner of
5 Air and Waste Management of the New York State
6 Department of Environmental Conservation.

7 I am pleased to be here today to offer the
8 Department's comments on the EPA's proposed heavy-duty
9 engine and vehicle standards and the highway diesel
10 fuel sulfur control requirements.

11 On behalf of DEC's Commissioner, John Cahil,
12 I want to commend the EPA for its strong proposals for
13 making long-term reductions in emissions from diesel
14 powered vehicles. We've seen continued progress, we're
15 very pleased with the Tier 2 rule. (inaudible) as
16 well, and striking against emissions from diesels is
17 the next logical step we have to make.

18 Air quality concerns confront New Yorkers
19 every day, as you've heard from so many people here
20 today. The New York metropolitan area is a
21 non-attainment for ozone, and Manhattan is
22 non-attainment for particulate matter, as well.

23 The health effects associated with reduced
24 air quality have been widely discussed here today, and
25 is well documented. But we're greatly concerned by

1 recent information that has linked fine particulate
2 matter to not only respiratory distress, but also to
3 increased cancer risks and possibly pulmonary disease
4 as we've just heard.

5 To address these issues, the DEC has
6 implemented a wide range of control programs at the
7 state level, impacting almost every source of pollution
8 from large industrial boilers, to automobiles,
9 architectural coatings, and even personal hygiene
10 products.

11 We've learned, as well, that nearly
12 15 percent of the New York metropolitan area NOx
13 inventory is related to on-road diesel engines. An
14 additional 22 percent we expect is related to non-road
15 engines. As much as half of the PM10 measured in
16 certain areas of New York City has been linked to
17 diesel.

18 Further, diesel engines are believed to be
19 the major contributor of fine particulate matter. And
20 of course, we'll know more as we begin our first round
21 of testing, and as we implement the PM Supersites and
22 for the first time speciate what's in the particles
23 that were collected.

24 A wide range of toxic air contaminants for
25 which ambient quality standards have not been set are

1 also known to be emitted from diesel engines. Without
2 significant reductions in this category, we will not be
3 able to meet our air quality goals.

4 Understanding these concerns, the Department
5 has started to address heavy-duty vehicle emissions to
6 do all we can on the state level. We initiated a
7 periodic smoke inspection program for diesel trucks
8 registered in the metro area, and a roadside inspection
9 program statewide.

10 In April, Governor Pataki announced that the
11 Metropolitan Transit Authority, MTA, would begin to
12 make its New York City bus fleet the cleanest in the
13 nation. Activities under this initiative have already
14 begun with conversion of the Clara Hale Depot to low
15 sulfur (30 ppm) diesel fuel; the retrofit of 50 buses
16 at that location with Continuously Regenerating
17 Technology; by purchasing alternate fuel, hybrid
18 electric, and clean diesel buses equipped with CRT or
19 other technologies. And by retiring the worst buses in
20 the fleet early, MTA plans to greatly reduce the
21 emissions of particulate matter from its fleet over the
22 next few years.

23 The Department, DEC, will be working with MTA
24 to verify the emissions reductions through appropriate
25 measurement technologies, and we expect to be able to

1 transfer what we learn about measuring those reductions
2 to other diesel fleets in the metro area.

3 In addition, and we're particularly proud,
4 MTA will be (inaudible) DEC, a state of the art diesel
5 engine testing facility, which will be one of only
6 three in the country that we're aware of, that will be
7 capable of sophisticated analysis of in-use diesel
8 engine emissions. It will be able to take something
9 that's been on the road and analyze what's actually
10 coming out of the tailpipe.

11 While the MTA project is a great step
12 forward, it will only affect about 4,000 buses in a
13 city that sees ten of thousands of heavy-duty vehicles
14 every day. These vehicles travel into and out of the
15 New York region daily, hundreds of miles from their
16 point of origin in many cases. To truly effect
17 significant changes in diesel emissions, we need a
18 national program that will impact the entire diesel
19 vehicle population.

20 A national emissions initiative for diesels
21 will ensure the greatest environmental benefits, as
22 well as levels the playing field economically. This
23 issue is critical for both public and private
24 interests.

25 As with the light duty Tier 2 standards, the

1 EPA correctly views both the diesel engine and fuel as
2 parts of a system that must be taken together to ensure
3 the effective control of emissions from heavy-duty
4 vehicles. The role of fuel in meeting emission
5 standards is critical, and must involve a collaboration
6 between the fuel suppliers and engine manufacturers.
7 Ultimately, credit for meeting the strict heavy-duty
8 standards will belong to both sectors.

9 The Department agrees with the EPA that
10 significant reductions in diesel fuel sulfur are
11 necessary to enable emissions control equipment to
12 function properly at the levels necessary to meet the
13 proposed standards. Some of the most promising
14 technologies may require near-zero sulfur levels.
15 Therefore, we support the 15 parts per million sulfur
16 limit included in the EPA's proposal.

17 While we strongly support this rulemaking,
18 the DEC believes there are some modifications that
19 would enhance the benefits to the health and welfare of
20 the public. And I will enumerate a few of them.

21 First, EPA should extend the regulations to
22 non-road diesel engines as soon as possible. Non-road
23 engines are a significant source of NOx, PM, and toxic
24 materials. Technology for such control is similar to
25 on-road controls, and, as such, extending the diesel

1 controls to non-road engines should not be unduly
2 delayed.

3 We'll note that many of the neighborhoods
4 that we've heard from today and we'll hear from later
5 on, in addition to the issues of diesel trucks, we have
6 diesel generators and diesel construction equipment in
7 neighborhoods, and a lot of other issues that the
8 off-road sector really contributes to.

9 Second, the EPA should consider speeding up
10 the process of closing crankcases on diesel engines,
11 and investigate mechanisms to retrofit existing engines
12 and on non-road engines. Our testing indicates that
13 the open crankcase is a significant source of the
14 toxics that come from the diesel engine.

15 Third, the EPA should investigate additional
16 fuel changes. There is a strong relationship between
17 cetane and NOx emissions. A change in the cetane
18 levels at this time levels would result in NOx
19 reductions from all in-use diesel engines without
20 additional retrofit.

21 Fourth, while the EPA has indicated an
22 expectation that it will change non-road diesel fuel
23 standards, those changes are not included in this
24 rulemaking. It's our understanding you expect that in
25 a year or so. We would really like to have the EPA

1 announce its intentions now. We think that that's fair
2 for the fuel industry and it's fair for the engine
3 manufacturers as well, so that they can properly and
4 economically plan for the changes that will result from
5 the non-road standard.

6 Fifth, the EPA should develop a broad
7 enforcement program with not only an engine
8 certification, but also includes in-use testing under
9 real world conditions. While the new heavy-duty engine
10 standards are excellent, they must be enforced and
11 supported by a strong enforcement program.

12 And, finally, the EPA should support the
13 inclusion of On Board Diagnostics, as part of any new
14 engine certification. OBD, On Board Diagnostics, is an
15 important element of reducing the deterioration of
16 emissions control equipment. It is easy to diagnose
17 (inaudible) and, of course, is becoming part of our
18 standard tool bag on dealing with (inaudible)
19 vehicles. The early planning for eventual in-use
20 compliance issues should be emphasized to avoid major
21 technical and programing issues that may come down the
22 road.

23 The EPA must work with the states as partners
24 in this effort on the common issue of cleaning our
25 air. The states are ultimately responsible for

1 modifying the final air quality benefits (inaudible).
2 We need to be part of the effort. Our request is that
3 the long-term planning for in-use measurements and
4 compliance begin early in the technology roll out.

5 New York State has developed considerable
6 expertise in the area of heavy-duty vehicle emissions.
7 Currently, we are developing the testing capability for
8 heavy-duty vehicles and engines. We're ready to
9 partner with the EPA, the engine manufacturers, fuel
10 providers, and the emissions control interests to
11 ensure that the federal regulations will deliver the
12 desired emissions reductions in a reasonable and
13 practical way.

14 The Department will submit detailed comments
15 on EPA's proposed regulations in the near future,
16 including supporting data from our testing programs.
17 We are pleased to continue working with you. Thank
18 you.

19 MS. OGE: Thank you. Mr. John Duerr,
20 welcome.

21 MR. JOHN DUERR: Thank you and good
22 afternoon. My name is John Duerr, I'm here today
23 representing the Detroit Diesel Corporation. Detroit
24 Diesel is a major manufacturer of diesel engines,
25 including heavy-duty on-highway engines, which are the

1 subject of today's rulemaking. Detroit diesel is
2 pleased to have this opportunity to present our views
3 in this proposed rule.

4 I may also say that Detroit diesel is member
5 of the Engine Manufacturers Association, and supports
6 the comments of that organization which were made
7 earlier today.

8 Detroit Diesel wants to congratulate the
9 agency in adopting a systems approach in this
10 rulemaking by proposing substantial fuel quality
11 improvements in support of their extremely challenging
12 new engine emissions standards.

13 Heavy-duty highway engines have been
14 regulated since the early 1970s, and since that time
15 there have been remarkable reductions in engine
16 emissions. By the time the 2004 emission standards
17 take effect, NOx and particulate emissions will have
18 been reduced by approximately 90 percent.

19 Carbon monoxide, hydrocarbon, and smoke
20 emissions from diesel engines have also been reduced
21 substantially, and today stand at levels that are
22 roughly 10 percent of the current standards.

23 For the most part, these impressive emission
24 reductions have been achieved through improvements of
25 engine design. Although this approach has been

1 successful in the past, I believe I can state without
2 the fear of contradiction that the 2004 standards are
3 very close to the limits of what can be achieved with
4 engine modifications alone.

5 Any substantial emission reductions beyond
6 those reflected in the 2004 standards will require the
7 use of exhaust after-treatment systems. Efficient and
8 durable exhaust after-treatment depends on the
9 availability of very low sulfur diesel fuel.

10 Thus, Detroit Diesel not only supports EPA's
11 approach of considering diesel fuel quality and engine
12 emissions standards together, we believe that this is
13 the only viable path for achieving future emission
14 reductions of significant magnitude.

15 While Detroit Diesel believes that reductions
16 in diesel fuel sulphur levels are key to achieving the
17 next level of emission standards, we are not certain
18 that the NOx standard that the EPA has proposed will be
19 feasible even with the fuel meeting a 15 ppm sulfur
20 cap.

21 The proposed 0.2 grams horsepower-hour NOx
22 standard will require the development and use of an
23 after-treatment system with over 90 percent
24 effectiveness over an extremely broad range of
25 operating conditions.

1 Detroit Diesel is not aware of any systems
2 that have demonstrated this level of effectiveness in
3 the laboratory, let alone meet the requirements of a
4 production feasible system with minimal deterioration
5 and effectiveness over the full 435,000 mile useful
6 life period.

7 We are continuing to review and analyze the
8 available data, and will provide more detailed
9 information regarding the feasibility of the proposed
10 NOx standard and the adequacy of the 15 ppm fuel sulfur
11 cap before the end of the comment period.

12 On a related note, the preamble to the
13 proposed rule indicates that supplemental not-to-exceed
14 and steady-state provisions, which are yet to be
15 finalized as part of the still pending 2004 rulemaking
16 package, will apply to the proposed 2007 standards.

17 It is further noted that a number of
18 modifications to those provisions are expected relative
19 to the proposal that was released in October of 1999.
20 These provisions have a very significant impact on the
21 stringency and feasibility of the proposed standards.

22 Since we have not, as yet, seen these
23 finalized provisions, we cannot assess their impact or
24 comment meaningfully on how these provisions impact the
25 technical feasibility of the proposed standards for

1 2007. Because of the extreme importance and complexity
2 of these provisions, the EPA must provide assurances
3 that there will be adequate time in this rulemaking for
4 public review and comments on these supplemental
5 provisions after the 2004 rulemaking has been
6 finalized.

7 Detroit Diesel appreciates the EPA's intent
8 to provide flexibility by proposing an option phase-in
9 for the proposed NOx, NMHC, and formaldehyde
10 standards. While this approach have been successful in
11 managing the transition to new standards for light-duty
12 vehicles, we believe this program will be unworkable
13 for heavy-duty engines because of customer preferences,
14 cost factors, competition between engine manufacturers,
15 and issues related to truck design which will make it
16 impossible for engine manufacturers to manage sales to
17 meet the proposed phase-in as scheduled.

18 As an alternative, we suggest that a two-step
19 implementation with a substantial reduction in the NOx
20 plus NMHC standard applicable to all heavy-duty diesel
21 engines in 2007, and a second large reduction in 2010.

22 We believe two-step implementation will avoid
23 the problems associated with managing engine sales, is
24 more aligned with technology readiness, and can achieve
25 emission reductions that are equivalent to EPA's

1 proposed phase-in schedule.

2 One aspect of the proposed rule that Detroit
3 Diesel finds troublesome is that the agency did not
4 include any changes to the emission test procedures.
5 The emission test procedures that manufacturers are
6 required to use in certifying and auditing engines are
7 currently codified in the Code of Federal Regulations.

8 These procedures were developed in the early
9 1980s, and were first applied when the NOx and
10 particulate emission standards were 10.7 and 0.60 grams
11 per horsepower-hour respectively. These procedures
12 were never designed to provide reliable measurements at
13 the extremely low emission levels represented by the
14 proposed standards.

15 Testing programs conducted jointly by EPA and
16 the industry show that emission measurement variability
17 using these procedures is approximately the same
18 magnitude as the proposed standards. With testing
19 variability of this magnitude, it will simply not be
20 possible to reliably determine if the proposed
21 standards are being met.

22 Clearly, substantially improved test
23 procedures and equipment need to be developed.
24 Further, the improved procedures must be developed with
25 sufficient lead-time to allow manufacturers to obtain

1 and install the necessary equipment to upgrade their
2 laboratory facilities and complete the development of
3 compliant engines before the new standards take
4 effect.

5 We believe this is a major undertaking and
6 one that calls for an immediate initiation of a
7 large-scale cooperative effort between the agency and
8 industry.

9 Again, Detroit Diesel appreciates this
10 opportunities to present our views on this important
11 rulemaking. We will follow-up with more detailed
12 comments on a number of issues before the end of the
13 comment period. Thank you.

14 MS. OGE: Thank you. Mr. Faudel, welcome.

15 MR. GERALD FAUDEL: Good afternoon. I want
16 to thank you for the opportunity to provide these
17 comments regarding the diesel fuel sulfur provisions,
18 and the proposed rulemaking designed primarily to limit
19 emissions from heavy-duty diesel engines.

20 My name is Gerald Faudel, I am Vice President
21 of the Corporate Relations for Frontier Oil
22 Corporation. We own and operate a small refinery in
23 Cheyenne, Wyoming. With only approximately 700
24 employees, Frontier is one of the 22 small business
25 refineries identified by the agency as subject to the

1 provisions and protections of the small business
2 (inaudible).

3 The small refiners very much appreciate your
4 formal acknowledgment, as compliance with the
5 dramatically reduced diesel sulfur standard will cost a
6 small business such as Frontier as much as 50 percent
7 more on a per gallon basis than it will cost a large
8 oil company. We also very much appreciate your efforts
9 in this process to find possible ways to partially
10 offset these disproportionate costs for small
11 businesses.

12 However, we have a long way to go. And
13 unless this rulemaking process can be extended, a very
14 short time to get there for a small business refinery
15 to be allowed a fighting chance to survive. This
16 regulation continues to provide much needed competition
17 in the transportation fields market.

18 The (inaudible) flexibility a small business
19 requires within this proposal is a much more difficult
20 task than the agency's recently successful Tier 2
21 gasoline (inaudible). Unlike the passenger vehicle
22 engine controls in Tier 2, the proposed heavy-duty
23 diesel engine emission control systems endorsed by the
24 agency seem to be paradoxically (inaudible), allowing
25 for absolutely no flexibility in the diesel sulfur

1 standards.

2 In addition, the effects of this standard on
3 small businesses are much more numerous and widespread,
4 and much more varied than it was in Tier 2. Small
5 business refiners will be adversely impacted by this
6 rule (inaudible) small refiners in California, who have
7 already been driven out of the gasoline manufacturing
8 business by the costs of the California regulations
9 (inaudible), but it can still make and sell diesel
10 fuel.

11 A small native American owner in Alaska that
12 is pioneering a unique desulfurization process for
13 diesel fuel, that may not be able to meet a very low
14 standard with the flexibility proposed. Small business
15 refiners that have historically made predominately
16 off-road diesel, may soon face disintegration if the
17 prime market of off-road diesel fuel is dumped or
18 produced by large oil companies.

19 The small business agriculture co-op refinery
20 uniquely serving the needs of the Midwest, and a number
21 of small business refineries like Frontier still
22 manufacturing both gasoline and diesel fuel, may now
23 face potentially debilitating costs if there are
24 simultaneous qualifications on their facilities to meet
25 these two expensive new gasoline and diesel sulphur

1 standards at nearly the same time.

2 In the preamble to the proposed rule, you
3 have asked for comments on a number of programs that
4 may help small businesses like Frontier comply with
5 this regulation. With the exception of the suggestion
6 that small refiners might be granted a higher final
7 off-road diesel standard than the rest of the industry,
8 my response to each program suggested is: Yes, we need
9 that and we need more.

10 We must accept that the best that the
11 heavy-duty diesel engine manufacturers can do to meet
12 their emission limits, is to design emission control
13 systems with nearly sulfur intolerance. The agency has
14 correctly concluded (inaudible) small business refiners
15 (inaudible) in other related areas, (inaudible) small
16 refiners to comply.

17 Frontier, therefore, believes it is necessary
18 to allow small business refiners to choose any or all
19 of the potentially useful combinations identified as
20 follows, so that we have the best possible chance of
21 survival.

22 We further do not believe that any of these
23 small business refiner combinations will in any way
24 diminish the environmental benefits. Unfortunately,
25 neither can we guarantee all of this will remain

1 economically viable.

2 Number one, small business refiners need the
3 ability to continue to manufacture and sell on-road
4 diesel at the current 500 parts per million standard
5 for as long as there's a market for that fuel. And
6 without commensurate requirement to manufacture the new
7 ultra low sulfur diesel, or for their customer stations
8 to carry it.

9 Number two, the EPA must take steps to
10 protect the off-road diesel market from damage from
11 dumping of on-road diesel fuel to the off-road market
12 by large refineries.

13 Number three, small business refineries who
14 manufacture both gasoline and diesel fuel must be
15 granted a four-year extension of all Tier 2 gasoline
16 sulphur requirements without suffering the uncertainty
17 or hardship of the original application approval
18 process.

19 Number four, small business refiners need the
20 EPA's help in endorsing and obtaining economic
21 assistance possibly through income or tax incentives,
22 or loan guarantees, so that the small businesses can
23 better absorb the 50 percent (inaudible) the agency has
24 estimated they will incur.

25 It is unfortunate that the agency has not

1 given adequate time to ensure that this rule is
2 technologically sound and economically practical when
3 it was proposed. It is likely due to the rush to
4 promulgate it before the end of this election year, but
5 it will have to be revisited in the future if there is
6 to be stability in the fuels marketplace.

7 Regardless of the outcome and irrespective of
8 the final diesel sulfur standards, small business
9 refiners like Frontier must obtain the combinations
10 described above if we are to continue to play a
11 competitive role in that marketplace.

12 Thank you again for your consideration of
13 these comments. I would like to reserve the
14 opportunity to supplement this presentation in writing
15 prior to the end of the comment period.

16 MS. OGE: Thank you. Mr. Tim Zellers, good
17 afternoon.

18 MR. TIM ZELLERS: Good afternoon. Thank you
19 for allowing me to speak today. My name is Tim
20 Zellers, and I'm a law student at Brooklyn Law School.
21 I'm the co-chair of the Brooklyn Law School
22 Environmental Justice Club, and I'm a summer intern at
23 the New York Public Health Research Group.

24 I'm here to ask you to adopt a common-sense
25 approach to cleaning up toxic emissions. Nationwide,

1 40,000 people die each year from breathing pollution.
2 Diesel soot pollution is worse, because it is linked to
3 cancer by over 30 independent scientific studies.

4 Diesel vehicles contribute more than their
5 fair share of air pollution. In fact, here in New York
6 City, when the proposed standards go into effect,
7 heavy-duty trucks and buses will be responsible for 30
8 percent of the smog-forming pollution, and 11 percent
9 of the soot produced by all city vehicles.

10 Every internship that I've had so far in my
11 law school experience -- I was at the New York City
12 Department of Environmental Conservation last spring, I
13 was at the New York City Environmental Justice Alliance
14 in the fall, I worked with citizen coalition groups
15 around Williamsburg last summer -- every issue dealt
16 with the quality of life. And the quality of the
17 people's lives in New York City dealt with the quality
18 of the air. And they were all affected by diesel buses
19 and heavy-duty traffic from trucks moving garbage
20 about, moving commerce about -- it has a direct
21 influence on every person living in the city.

22 I agree with your proposal to protect the
23 public health, cleaning out big trucks and buses. Now,
24 it makes sense that you're proposing to reduce sulphur
25 levels in diesel fuels by 97 percent before the new

1 vehicle standards go into effect.

2 I urge you not to weaken this provision by
3 allowing an extended time line, or higher sulfur
4 levels. If the newer, cleaner trucks do not have
5 reliable access to 15 parts per million sulfur, we will
6 not be able to meet the necessary pollution
7 reductions.

8 Furthermore, these newer, cleaner trucks
9 should be required to meet the emission standards as
10 soon as possible. We are already going to have to wait
11 until 2007 before we see any major reductions in soot
12 pollution. We should not wait until 2010 before we get
13 relief from the smog forming pollutions. Instead the
14 emission standards for smog forming pollutions should
15 be fully implemented in 2007.

16 Finally, cleaning up existing diesel makes
17 sense for our health and our country. By replacing
18 diesel with cleaner technologies makes even greater
19 sense.

20 Therefore, I would ask the EPA to provide
21 incentives to increase the use of advanced,
22 technologically clean vehicles. Thank you.

23 MS. OGE: Thank you. Ms. Curtis, welcome.

24 MS. MARIE CURTIS: Thank you, and good
25 afternoon. I am Marie Curtis, Executive Director of

1 the New Jersey Environmental Lobby. We're an
2 organization that represents roughly 100 local,
3 regional, and statewide environmental groups in New
4 Jersey, as well as some 1000 individual members.

5 We are here in strong support of the
6 Environmental Protection Agency's proposed diesel
7 rule.

8 We all know that the California Air Resources
9 Board has declared diesel exhaust (inaudible). We know
10 about the health effects. And we know that ground
11 level ozone also affects vegetation, damages the leaves
12 of the plants and trees, reduces growth rates, weakens
13 plants making them more vulnerable to diseases and
14 insect invasions.

15 But most importantly, for too long our New
16 Jersey citizens have endured dirty air and the
17 detrimental effects such chronic exposure entails. We
18 have rising rates of asthma, and one of the worst
19 concentrations of tuberculosis in the world. And, yes,
20 tuberculosis is a transmittable disease, but it's also
21 very difficult for individuals to fight tuberculosis if
22 they have weakened lung structure. And that's what
23 this dirty air has given us.

24 New Jersey has been in serious non-attainment
25 of the National Ambient Air Quality Standards right

1 from the very beginning of such evaluations. We have
2 taken measures to improve stationary source emissions,
3 and we have required emission checks on family cars.
4 And are now going to enhance inspections of those
5 vehicles.

6 New Jersey, however, is a corridor state. We
7 sit between the metropolitan areas of New York and
8 Philadelphia, and we are also in the center of the
9 Boston/Washington megalopolis. In addition, we are the
10 most densely populated state in the union, with heavy
11 congestion on our roads from both residents and through
12 traffic. Much of the through traffic is heavy-duty
13 diesel, delivering freight from points outside of the
14 Garden State to points either in or beyond us.

15 And freight traffic in New Jersey is even
16 more heavy, because rail freight must be trucked across
17 the Hudson, since the nearest rail freight crossing of
18 that river is four miles south of Albany. There is no
19 other way, really, to get freight across the Hudson to
20 those markets in the city and on Long Island. But
21 regardless of destination or origin, diesel emissions
22 from vehicles foul our air on a daily basis and to a
23 very great extent.

24 Diesel trucks and buses are responsible for
25 11 percent of the nitrogen oxide pollution nationwide.

1 With the concentration of vehicular traffic in our
2 state, we would presume the figure in New Jersey to be
3 even higher. Nitrogen oxide is a necessary precursor
4 to the formation of ground level ozone and smog. It's
5 not surprising that we suffer harmful ozone effects
6 summer and after summer. We need to require emission
7 reductions in trucks, just as we have in our
8 automobiles.

9 Catalytic converters that reduce NOx and
10 other pollutants, however, cannot function with current
11 diesel fuel. The sulphur content in diesel fuel is
12 currently roughly 500 parts per million. This is the
13 ingredient that renders catalytic converters inoperable
14 on diesel engines. The rule proposes to reduce the
15 level drastically. The rule would allow only 15 parts
16 per million by 2007. This would allow pollution
17 control equipment to function and, thus, would reduce
18 pollution and smog from these sources.

19 However, it isn't just the heavy-duty diesels
20 on our roads. Off-road vehicles must be included if we
21 are to truly achieve the goals that we have set out
22 here. We don't believe that phasing in is really
23 necessary. We don't believe that we should to have
24 wait for healthy air.

25 The Blue Sky's Program mentioned in the rule

1 should have the most stringent standards possible. We
2 believe that incentives are good, but they must
3 sufficiently benefit the public to warrant their
4 introduction in the first place.

5 In conclusion, really our major criticism of
6 this proposal, is why it took so long to come forth and
7 why we must wait so long for implementation.

8 We strongly endorse the proposed diesel rule,
9 and we thank you for the opportunity to be heard here
10 today.

11 MS. OGE: Thank you, and I would like to
12 thank all the panel for taking the time to come and
13 share their views with us. Let me call the next panel.

14 MR. BOB KULIKOWSKI: Good afternoon, ladies
15 and gentlemen. My name is Dr. Robert Kulikowski, and I
16 am pleased to express the view of Manhattan Borough
17 President, C. Virginia Fields, on this issue.

18 Let me begin with some background
19 information. You are undoubtedly acutely aware that
20 New York City's air quality is among the worst in the
21 nation. EPA projects that ozone precursors generally
22 will decline next the decade before experiencing an
23 increase. However, this is of little comfort to New
24 York City, since it is currently designated as a
25 non-attainment zone for ozone under the National

1 Ambient Air Quality Standard.

2 Worse yet, the EPA projects that emissions of
3 particulate matter will increase over the next decade.
4 Unfortunately, this already appears to be the case in
5 New York County, Manhattan, which while not designated
6 a non-attainment zone for PM and should be. In 1998,
7 Manhattan exceeded the NAAQS for PM, but since findings
8 are based on three-year averages, the lower averages
9 for 1996 and 1997 brought the three-year average below
10 the standard. And clearly we are seeing an increase of
11 particulate matter in the air.

12 Manhattan, along with the other boroughs, has
13 neighborhoods where asthma and other respiratory
14 diseases are at near epidemic proportions. As
15 discussed by the EPA in the background material for
16 this proposed rulemaking, and indeed many other
17 sources, ozone and particulate matter found in diesel
18 exhaust aggravate these conditions. Especially in
19 children.

20 Clearly Manhattan, New York City, and the
21 region need to clean up their air. New York City is
22 also a major transportation hub with goods moving from
23 other parts of the country into the city and through it
24 to reach New England and Long Island. Unfortunately,
25 this movement of goods occurs predominately by truck.

1 Diesel truck.

2 Major transportation corridors through
3 Manhattan -- Canal Street and the Holland Tunnel, the
4 Lincoln Tunnel, Midtown Tunnel, and the George
5 Washington Bridge -- slice through many residential
6 neighborhoods. Even casual observations reveal slow
7 moving bumper-to-bumper 18-wheelers inching their way
8 through the borough, spewing diesel exhaust into the
9 air. In addition, sanitation trucks, buses, and other
10 vehicles, fire engines, ply our streets to provide
11 essential services, but which still generate diesel
12 exhaust.

13 Our president, C. Virginia Fields, has long
14 been a staunch advocate for reducing diesel emissions
15 in the city. Recently she has helped convince the
16 Metropolitan Transportation Authority to reduce its
17 purchases of diesel buses and to accelerate its clean
18 bus program for New York City.

19 This will help our air, but it's not enough.
20 The entire issue of diesel vehicles must be
21 addressed -- our municipal fleets and commercial trucks
22 delivering goods or passing through, as well as
23 off-road sources.

24 Therefore, while the total elimination of
25 diesel fueled vehicles would be the ideal scenario,

1 given today's technologies, the Borough President
2 wholeheartedly supports the EPA's proposed rulemaking
3 as an initial, comprehensive approach to the diesel
4 emission problem. Combining the use of low-sulfur fuels
5 with additional pollution control devices for
6 heavy-duty vehicles makes ultimate sense.

7 Specifically, Borough President Fields
8 supports the 15 parts per million cap on sulfur content
9 in diesel fuel -- a 97 percent reduction from current
10 allowed levels; the proposed emission standards for
11 heavy-duty vehicles that will reduce PM by 90 percent
12 and oxides of nitrogen by 95 percent; the use of
13 after-treatment technologies; as well as implementation
14 of these standards nationwide.

15 The low-sulfur fuel standard is to be
16 implemented in 2006 in time for modifications in the
17 2007-model year vehicle to achieve the standards. We
18 would very much like to see this time frame reduced to
19 the greatest extent possible. It is our understanding
20 that the American Petroleum Institute has estimated
21 that it would take about four years to implement these
22 standards. While others may hold differing opinions,
23 the startup costs of the industry alone should not be
24 sufficient to delay its implementation.

25 Finally, the fact that these changes will be

1 accomplished with, in our opinion, very little economic
2 impact is extremely gratifying. The EPA's estimate
3 that reducing the sulfur content in diesel fuel will
4 cost about 4 cents a gallon and, over the long term,
5 less than \$2,000 per vehicle -- an insignificant amount
6 compared to an average price tag of \$250,000. The
7 savings in people's health, fewer hospitalizations and
8 emergency room visits, lost time at work, and an
9 increase in the quality of life are just a few of the
10 benefits that will be realized. Clearly, this is a
11 no-brainer. And these rules should be finalized as
12 soon as possible. Thank you for the opportunity to
13 comment.

14 MS. MARTIN: Thank you very much. Mr. Weck.

15 MR. LARRY WECK: Good afternoon. My name is
16 Larry Weck, I'm the Vice President of Business
17 Development for Syntroleum Corporation. My company has
18 developed a process to convert natural gas into ultra
19 clean fuel.

20 My specific interests in this hearing is that
21 Syntroleum has developed a (inaudible) diesel. My
22 comments at this hearing will focus on the potential
23 impact that Syntroleum's synthetic diesel, and similar
24 synthetic fuels available from other producers, will
25 have on the US transportation fuels industry.

1 I will also review the significant
2 environmental and energy security benefits that will
3 develop with the increased production and use of
4 synthetic diesel and similar fuels from other producers
5 during the next decade.

6 Syntroleum strongly believes that blending
7 this synthetic fuel into the present diesel fuel can
8 assist refiners, large and small, in the meeting the
9 cap of 10 parts per million diesel sulphur requirements
10 by 2007.

11 Let me describe the properties of the
12 synthetic diesel. Synthetic diesels have been
13 developed and tested by Syntroleum and others. These
14 diesels meet or exceed the properties specified by
15 ASTM 975, and are highly suitable for conventional and
16 advanced compression (inaudible) engines in both the
17 North American and European markets.

18 Additionally, Syntroleum's synthetic diesel
19 has been demonstrated to be a viable fuel (inaudible).
20 This synthetic diesel is physically similar to the
21 petroleum-based diesel, but it has superior combustion
22 emission characteristics. It contains no detectable
23 levels of sulphur or metals (inaudible).

24 Our diesel and Swedish city diesel are the
25 cleanest diesel fuels commercially available today.

1 Syntroleum's synthetic diesel never exceeded the
2 applicable EPA Tier 1 emission standards appropriate
3 for each test platform, according to your manufactured
4 vehicle category.

5 In addition, the SDRI (phonetic) tests
6 revealed that synthetic diesel emissions for criteria
7 pollutants are significantly lower than each of the
8 other diesel fuels tested. For just the heavy-duty
9 engine platform, nitrogen oxide emissions are
10 22 percent lower than EPA provisions, 14 percent lower
11 than car, and 11 percent lower than the Swedish
12 diesel. Particular matter emissions are 38 percent
13 lower than EPA diesel, 25 percent lower than car, and
14 25 percent lower than Swedish diesel. And Air toxic
15 emissions are 34 percent lower, 13 percent and
16 27 percent respectively.

17 These environmental benefits can be realized
18 immediately because this diesel can be used in the
19 existing, conventional diesel engines. The absence of
20 sulphur enables vehicles to operate on synthetic diesel
21 with the use of advanced technologies you have heard
22 about today, including catalytic converters and
23 particulate traps, to achieve lower emissions.

24 Moreover, it's truly really a pleasure to
25 point out to the EPA and to the American public that

1 the synthetic diesel under discussion here has a very
2 low solubility in water. Additionally, laboratory
3 testing indicates that this synthetic diesel has a
4 significantly lower level of toxicity than traditional
5 diesel, and is more biodegradable.

6 Synthetic diesel fuel provides substantial
7 energy security benefits to the US. Syntroleum
8 develops (inaudible) technology for both its own
9 commercial use and for license to others in the
10 production of diesel fuels. As such, the synthetic
11 fuel production technology is broadly available to the
12 energy industry in the production of synthetic diesel.

13 Present licensees of this process are ARCO,
14 now BP, (inaudible), Texaco, Ivanhoe Energy, and
15 recently the Commonwealth of Australia. (Inaudible)
16 natural gas, methane rich gas containing up to
17 30 percent inerts (inaudible). These (inaudible) are
18 abundant worldwide.

19 Production of these synthetic fuels is the
20 logical component in the plan to (inaudible) petroleum-
21 based fuel in the transportation sector, because,
22 number one, the US has plentiful natural gas
23 resources. Number two, numerous countries, in addition
24 to members of OPEC, have plentiful natural gas
25 resources.

1 The full-cycle fuel energy required to
2 produce this diesel is potentially more energy
3 efficient than full-cycle fuel energy required to
4 produce diesel containing sulfur or reformulated
5 gasoline. The comparable full-cycle production of
6 synthetic diesel requires less energy than the
7 production of either reformulated diesel or
8 reformulated gasoline or petroleum.

9 As a case in point, a study by Oakgrade
10 (phonetic) National Laboratory identifies the potential
11 energy security benefits that would be realized with
12 the increased use of this diesel. It would reduce
13 reliance on imported oil as a transportation energy
14 resource, because it can be manufactured domestically
15 from US reserves of (inaudible) quality gas. In
16 addition, the manufacturer's subsidies would broaden
17 and diversify supplies, and increase the level of
18 competition, thus reducing the price.

19 For the refining industry, this diesel can be
20 produced economically in a variety of plant
21 configurations, site conditions, and the proximity of
22 the plants in the fuel market.

23 As trucks continue to grow in popularity, the
24 shift from gasoline to diesel engines is evidenced by a
25 12 percent growth rate for the period '96 to '98, and a

1 44 percent growth rate for the one-year period of
2 1997-98. In the heavier portion of this category,
3 where some of the most popular, full-size SUVs and
4 large pickup trucks are found, the shift from gasoline
5 to diesel is even greater: 18 percent for 1996-98, and
6 50 percent for '97-98.

7 With the increasing availability of cleaner
8 diesel fuels, manufacturers of diesel-powered vehicles
9 will be better able to bring their diesel technology
10 and experience into the US marketplace.

11 Of particular interest to this hearing is the
12 need for the community's fuel to meet Tier 2
13 standards. The demand for diesel in the United States
14 transportation sector is growing three times faster
15 than gasoline. If this growth and demand continues,
16 100,000 barrels per day incremental capacity will be
17 required (inaudible). Availability of synthetic diesel
18 will increase the options available to refiners to
19 provide for this production of diesel under the
20 proposed rules.

21 Synthetic diesel will enable the refining
22 industry to have more flexibility to meet the
23 anticipated increasing demand for Tier 2 specs. Using
24 only conventional refining technologies for the
25 production of the 15 parts per million diesel will

1 require more processing and more natural gas or
2 hydrogen production.

3 Once the diesel fuels improve the current
4 level, 350 ppm, to below 50, additional reductions in
5 diesel fuel sulfur require disproportionate increases
6 in energy and hydrogen. In this instance, when the
7 conventional diesel with an additional 30 percent
8 (inaudible) synthetic diesel reduce sulfur from 20 to
9 15 ppm, is expected to be a more carbon and energy
10 efficient means to achieve compliance for numerous
11 refineries compared to their traditional (inaudible).

12 Most significant to this hearing is that the
13 economics of synthetic diesel may be particularly
14 enhanced and used as a blending agent. More detailed
15 information will be supplied on this topic.

16 In conclusion, our use of synthetic diesel
17 fuels will bring significant environmental and energy
18 security benefits to the US during the next decade and
19 beyond. Syntroleum strongly believes that the expected
20 increased availability of these fuels will dramatically
21 assist refiners in meeting the sulfur requirements by
22 2007 both by blending the in-place fuel stream, and by
23 supplementing the refining capacity that will become
24 economically challenged. Thank you for the opportunity
25 to speak today.

1 MS. OGE: Thank you very much. Mr. Tripp,
2 good afternoon.

3 MR. JAMES TRIPP: Thank you very much. My
4 name is James Tripp, I'm the General Counsel of
5 Environmental Defense, a national environmental
6 organization. We have in the New York/New Jersey/
7 Connecticut metropolitan area somewhere around 30,000
8 members, we have 300,000 members nationally.

9 I've prepared a statement, I do not intend to
10 read it verbatim. You can do so at your leisure.

11 Needless to say, in general we strongly
12 support this rule. We all would have been better off
13 if the rule had been proposed ten or fifteen years ago.
14 But if you live in a metropolitan area like this, as
15 cars have gotten cleaner, the dirty nature of emissions
16 from heavy trucks as well as buses has become all the
17 more evident.

18 Particulate emissions are a very serious
19 problem in this metropolitan area. And I think as Carl
20 Johnson noted, when and if -- and we hope the sooner
21 the better -- the EPA finally puts in place the PM 2.5
22 standard, we will have a clear idea just how serious
23 the particulate problem is. And a lot of this problem
24 is associated with diesel admissions from trucks.

25 In connection with the DEC proceedings in

1 which we are a party, we have looked at the PM 2.5 data
2 from a couple of air monitors in the South Bronx.

3 These are monitors which are on top of school
4 buildings, so they don't really tell you what's going
5 on at the street level where the heavy trucks are. But
6 the analysis that was done by a physicist working with
7 (inaudible) indicated that the PM 2.5 levels, based on
8 that data that had been certified, was at or slightly
9 above 15 micrograms per cubic meter, which is above the
10 proposed EPA standard for 2.5 particulates.

11 And my suspicion is that if and when we have
12 a better and more detailed air monitoring network, and
13 we're willing to look at what's going on along the
14 streets that are heavily used by trucks -- whether
15 we're talking about the Bronx, or lower Manhattan,
16 Newark, or other parts of the metropolitan area -- we
17 will find PM 2.5 levels well in excess of 15 micrograms
18 per cubic meter. This is a deplorable situation.

19 We cite in our testimony, and you've probably
20 already heard today, about the health data about the
21 nature of diesel particulates. And, of course, it was
22 just last month that the Department of Health and Human
23 Services, in their report on carcinogens, classified
24 diesel exhaust particulates as reasonably anticipated
25 to be human carcinogens.

1 And I think you're probably also aware of the
2 fact that the South Coast Air Quality Management
3 District Board in the Los Angeles area has just come
4 out with a report on the toxic nature of diesel
5 emissions, indicating that diesel emissions were
6 responsible for about 70 percent of all air toxic
7 carcinogenicity in that region. There's no reason to
8 believe that the same isn't the case here.

9 So it seems to me that the evidence that fine
10 particulates generated by diesel emissions are of great
11 health concern throughout this metropolitan area. But
12 it is particularly in parts of the city that tend to be
13 populated with lower income, minority populations that
14 it is an extremely serious problem. And certainly we,
15 therefore, support the particulate rule.

16 With respect to nitrogen oxides, again other
17 speakers have indicated that truck NOx emissions are
18 becoming a larger and larger portion of all nitrogen
19 oxide emissions. Probably the most serious general air
20 pollutant problem that this country faces today is
21 linked to nitrogen oxide emissions. Those emissions
22 have been going up, we to have to do something about
23 it. We should reduce by 90 percent, or more, as
24 quickly as we possibly can, the nitrogen oxide
25 emissions of trucks.

1 Peter Lehner mentioned the eutrophication of
2 Long Island Sound. The City of New York is going to be
3 expected to spend half a billion to a billion dollars
4 on finalizing nitrogen removal treatment plants. And
5 Connecticut, Westchester, Long Island will be doing the
6 same. We've got to reduce nitrogen input into Long
7 Island Sound by a very significant percentage if that's
8 going to be become a health body of water again. And
9 that alone is justification for reducing nitrogen
10 oxides.

11 We certainly would support, strongly support,
12 a much more rapid implementation of the NOx emission
13 rule. I believe the rule allows for four years of
14 implementation, 2007 to 2011. Given the number of
15 years that any truck is on the roads in this country,
16 and the number and the distance that a truck goes
17 before it's finally retired, the sooner that that rule
18 can be implemented the better. We would strongly
19 support implementing the rule 2006, 2005 -- as early as
20 possible.

21 With all of that, diesel fuel has got to be
22 as clean as possible. And given what ARCO is doing in
23 California, and what other refineries are beginning to
24 do, we think that the 15 parts per million sulfur rule
25 for diesel fuel is very reasonable in this schedule.

1 My name is Alexandra Fisher, and I am a
2 concerned citizen. I'm very nervous, because I'm
3 speaking only of my personal experience.

4 I don't know a lot of numbers and lot of the
5 statistics, I only know that I'm a life-long resident
6 of New York City and that on what we call a "bad air
7 day" when I blow my nose, the kleenex is black. That I
8 look at that and wonder what my lungs look like.

9 And that my brother, who is eight years
10 younger than I am has asthma. And that he doesn't live
11 here in New York anymore, but when I get a call from
12 him in the hospital and he talks about almost dying,
13 and I know that part of what is potentially killing him
14 is the air quality, I become very afraid.

15 I grew up in the sixties learning that all
16 war would end, the air would become clean, the water
17 would become clean, all people would be equal, women
18 would have equal rights, people of all colors would be
19 living together in harmony -- and I've been waiting for
20 this happen. And I'm not giving up yet.

21 And it is so frustrating to me when the
22 answers are within reach. They're difficult, from what
23 I'm hearing today. I'm not stupid, I understand that
24 this isn't a matter of anybody snapping their fingers
25 and making change happen. It's a long-time progress,

1 and this country barreled along because nobody knew of
2 the problems that would be created.

3 But now that he would have ways of finding
4 out what the problems are and we start to know what the
5 solutions are, I find it unbelievable that everyone
6 doesn't think the way I do and just want to clean
7 everything up. Because even the people who are making
8 lots and lots of money from polluting also have to
9 breathe this air and drink the water, and their
10 children do. And I don't understand why it becomes a
11 political battle.

12 I heard about the new standards that are
13 proposed. And what I understand of them, I like. I
14 agree with the other things that I have heard today,
15 that I wish they could be implemented sooner.

16 I am a privileged person in that I have a
17 job, I work for myself. If I want to leave New York
18 City, I can. And I plan to. Partly because it's so
19 dirty. But, like I said, I'm privileged. There are
20 many people who don't have the privilege of leaving
21 large urban areas, and are subject to the pollution
22 that continues to grow there.

23 I myself suffer from bronchitis. And when
24 I'm in a bad pollution area I have, at times, had go to
25 the emergency room myself for bronchitis. And I know

1 that with pollution it happened to me in Mexico City.
2 And then when it happened to me New York City, I was
3 amazed that we were as bad as they were, because I had
4 always heard how awful it was in Mexico City with the
5 pollution. And to think that I could get that sick
6 here was appalling to me.

7 I don't want to ramble. I didn't write, I
8 wrote a few things down for myself here.

9 But I think the important thing here is that
10 if I do put a face on my brother, which I can't -- but
11 he looks almost exactly like me -- and to think that my
12 brother might live or die, depending on the air
13 quality, and that my brother is only one of the
14 millions in this country, and I don't know how many in
15 the world, who are affected on a daily basis by air
16 quality, then maybe it will help to move this out of
17 the political arena, the economic arena, and into one,
18 as someone mentioned before, where the costs go beyond
19 what it costs individual companies to comply, or for
20 the government to help subsidize, and then it will go
21 into what we mean if we have country full of healthy
22 people who go to work every day, almost every day.
23 Where sick days will be maybe because they drank a
24 little too much the night before, not because they had
25 to go to the emergency room. Those kinds of costs, if

1 we can hold back and see the larger picture, are what I
2 think we're really talking about.

3 I have seen the Hudson River get cleaner, I
4 never thought that would happen. When I was little,
5 that was a lost cause. It is now -- it is not clean,
6 it is cleaner. I would like to see the same thing
7 happen with air. I would like not to have to be
8 finding places that are air conditioned to go to in the
9 summer when the wind isn't moving across Manhattan. I
10 don't like air conditioning. And, again, that's a
11 privilege to be able to find it or have it.

12 So basically I just want to say that I think
13 the standards, as I've heard them and understand them,
14 are good ones. As other people have said, I wish they
15 could be implemented sooner.

16 And that I want everyone here to remember, no
17 matter which side you're on, that this is a human issue
18 and that we all have to live here and share the air.
19 We may as well work together to make it the best air
20 that we can possibly have.

21 Thank you.

22 MS. OGE: Thank you very much for your
23 testimony. I wanted to just say to you that to be able
24 to hear from people like you is exactly why we're here
25 in New York and going to Chicago, Atlanta, and Denver

1 and California and getting out of Washington so that we
2 can hear from the people. So thank you very much.

3 I now understand that Mr. Perez and
4 Mr. Corbin will be sharing testimony, so however each
5 of you wish to proceed.

6 MR. JOE PEREZ: Good afternoon. My name is
7 Joe Perez, I'm President of (inaudible), Vice President
8 and Chair of the South Bronx Clean Air Coalition.

9 The oil industry is here fighting this rule
10 claiming that the reduction of diesel fuel is too
11 expensive. That is adding insult to injury to our
12 community. It has become apparent that the lives of
13 Latinos and African/Americans are in a susceptible
14 role. The South Bronx in upper Manhattan lead the
15 nation in emergency room visits due to asthma caused by
16 air pollution. Why is it that we are the target for
17 every major polluting project the city/state can think
18 of?

19 To mention a few: The (inaudible) Medical
20 Waste Incinerator, which placed toxics into our air
21 until we shut it down. Waste transfers stations and
22 bus depots that increase the amount of diesel fuel
23 pollution that causes asthma, heart disease, and lung
24 cancer. A Home Depot that is being built on 116th
25 Street that will bring into our community 7,000 more

1 cars and 120 more trucks a day. The New York Post, and
2 the Harlem River (inaudible). We are being killed, and
3 a sad part of it is that we are being made to pay for
4 it.

5 Another thing that we need is enforcement of
6 existing laws. An example: An incinerator had 800
7 violations before they closed it down. Now any driver
8 know that if you have a few violations, they're going
9 to take your license away.

10 The trucks, they park all over the place.
11 Three or four of them park right in front of the day
12 care centers. On 138th Street in the Bronx, they park
13 right next to a school, leave the truck running, go out
14 and eat lunch or breakfast.

15 When you speak to the police department, they
16 say well, we don't have no authority against that.
17 When you speak to the traffic department, they don't
18 have no authority on that. Speak to the DEC, they
19 don't have any authority on that.

20 Well, now, whose job is it to enforce the
21 laws that are on the books?

22 On the question to address the oil industry's
23 fear of losing millions of dollars: A child's life is
24 priceless. We ask that you please pass this law.

25 MR. CECIL CORBIN-MARK: Good afternoon. My

1 name is Cecil Corbin-Mark, and I am the Program
2 Director for an organization called West Harlem
3 Environmental Action. We have members who are
4 life-long residents of north Manhattan and Harlem.

5 To be specific, our organization is based in
6 Northern Manhattan and works on environmental issues
7 locally, statewide, and nationally. Since 1988, WE ACT
8 has worked to educate community residents about the
9 threat to human health created by these particulates,
10 and today I'm really here to applaud the EPA for
11 putting forth such a strong rule.

12 In 1997 we launched our Clean Air Good Health
13 campaign, with a series of English and Spanish bus
14 shelter ads in Northern Manhattan and a battery of
15 brochures that were all designed to inform people that
16 if you live uptown, breathing was something that you
17 did at your own risk. And to call attention to the
18 fact that Northern Manhattan was saturated with six out
19 of eight of the Transit Authority's bus depots, and a
20 series of networks that comprised a very complex truck
21 route system, all in area that was only about 7.4
22 square miles that was also home to more than half a
23 million residents.

24 One of the things that I certainly want to
25 call attention to, or three things that I think are

1 important about this particular rule:

2 One, EPA's new rule, in very short and
3 succinct terms, for residents of Manhattan will really
4 mean fewer asthma attacks.

5 Two, Northern Manhattan, as we understand it
6 from some of our colleagues who were (inaudible), is
7 really awash in diesel particulates. And one of the
8 major contributors to that is the truck traffic that is
9 there, as well as the buses.

10 Now, we've worked for more than a decade to
11 deal with the buses thinking that that was an avenue
12 through which we could have some leverage, because
13 quote unquote, it was a "public service," only to find
14 that 13 years later after the battle began that we were
15 now beginning to get to the point where there was some
16 light, possibly, at the end of the tunnel, but we still
17 haven't seen it yet.

18 The trucks, however, we have to throw our
19 hands up at completely and say well, there seems to be
20 no hook. Well, hurrah for the EPA, because today with
21 this proposed rule if it is implemented, yes, there
22 really does become a hook that deals with the hundreds
23 of trucks that we have had our YRDP(?) crew
24 monitoring -- our YRDP crew is the Youth Reach
25 (phonetic) Development Project -- monitoring truck

1 traffic on our local streets. Hundreds of trucks just
2 barreling down the streets on a daily basis, because
3 New York City has no proper real infrastructure for the
4 delivery of goods.

5 The third thing about this rule is that
6 cleaner air really will be a regional benefit as well
7 as a national benefit, and it's something that we
8 should not take lightly.

9 Now, many are going to come and argue in
10 opposition to this particular rule. Some of the
11 arguments will have to do with the cost. The oil
12 industry constantly throws up the cost. I find this
13 particularly galling that every time as the state of
14 science advances and we find out more about how to
15 either improve the quality of our environment or
16 protect our public health in a significant way, that
17 industry seems to come up with a red herring for why we
18 shouldn't go forth with this, and usually that red
19 herring is cost.

20 The first thing that I want to say about cost
21 is that I was astounded to find out that while the oil
22 industry particularly throws this up as an issue, that
23 Exxon Mobile, the largest of the barons, if you will,
24 in the oil industry, recently published in one of their
25 financial disclosures, quarterly financial statements.

1 And what left me astonished was that in that quarterly
2 financial statement, one of the things that was
3 revealed was that in a quarter Exxon Mobile made enough
4 money to actually have some of this stuff happen.

5 Now, I don't know understand, if we live in
6 this particular time that is so opulent and supposedly
7 so rich -- for some, obviously, but not for all -- why
8 we're not taking on these challenges. Costs should not
9 be a factor.

10 In fact, if we are going to talk about costs,
11 then it is incumbent upon me as a resident of Northern
12 Manhattan to demand that people look at the fact that
13 there is a cost to the increase in hospital admissions
14 for asthma cases. There is a cost to mothers and
15 fathers who have to take off from work to attend to a
16 sick child, or to take care of their own asthmatic
17 conditions that are related, or triggered by this
18 particular pollutant. There is a cost to the number of
19 school days that are lost.

20 And why are we not factoring in those costs
21 as well?

22 I suspect that the reason for that is that
23 the picture that would be revealed upon that kind of
24 mathematics would not be a pretty one.

25 Secondly, one of the things that I am

1 troubled by also is that people will say that this
2 particular type of modification to the oil industry's
3 infrastructure will actually leave the industry in
4 fiscal ruin. Well, I go back, again, to this Exxon
5 Mobile quarterly statement, and I can't imagine that
6 that would be true.

7 I think that it is high time that we own up,
8 all of us -- both the industry, the private sector,
9 private residents, all of us -- own up to the challenge
10 ahead.

11 When we were faced with this issue of lead in
12 gasoline poisoning all of our children, America rose to
13 the task. And I think we are at another crossroads
14 like that now. We must rise to the task. Because,
15 really and truly, I believe that in the end our
16 society's well being will not be judged by the
17 magnitude of the bottom line, or the fat GNP or GEP
18 figures, but really it will be judged by the quality of
19 life we provide for each and every one of our
20 citizens.

21 I think this rule moves us in that
22 direction. Moves us in the right direction of
23 improving the quality of the air that we breath, and
24 providing an opportunity for those who suffer -- like
25 many of the Northern Manhattan residents -- to improve

1 the quality of their health.

2 Our organization over the last couple of
3 years has really engaged in a series of community-
4 based research projects with our academic partner at
5 Columbia University. And some of those scientific
6 research projects have really left us with what we
7 believe are the smoking-gun findings.

8 We conducted a study amongst seventh graders
9 in Northern Manhattan to determine what the lung
10 function was with the students who were exposed to
11 diesel and smog. And because we -- because of the
12 politics in the city, we had to get started with what
13 we were calling our quote unquote "control school"
14 first.

15 When we were finished and all of the
16 information was gathered from that control school,
17 supposedly the school that was supposed to be the least
18 exposed, we found that the students in those schools
19 were so much awash in diesel particulates that it
20 really did not even make sense for us to go forward and
21 check the exposed school. The levels of exposure were
22 so high that even a control school was, in effect, an
23 exposed school. That is something that is
24 intolerable.

25 I want to end by talking about some of the

1 residents that I know in Northern Manhattan who live
2 there, work there, and call it home.

3 Joselito (phonetic) Mendez was a young man
4 that I actually met through our program. He started
5 coming to our organization when he was about 14-years
6 old. Very overweight, intensely shy, but a very
7 brilliant mind and a gentleman of a young man who was a
8 severe asthmatic. Could not play, could not get
9 involved in any substantive physical activities for
10 fear -- all of his life -- for fear that he would be
11 seized by an asthma attack.

12 (Inaudible), another young lady who came
13 through our earth cleaning project, she also was a
14 severe asthmatic, but determined she was going to
15 continue to live her life the way that she would. She
16 actually fought through her asthma attacks, and decided
17 that she was not going to be stopped by it.

18 Jamal is a young child of four-years old who
19 I just recently became aware of. And when I first met
20 his mother her bag was filled -- she opened her bag at
21 one point with the child in her lap, and began to give
22 him an inhaler. A four-year old. To me, this is some
23 of what the new rule will help us move beyond.

24 And lastly, Paris Walsby (phonetic), a woman
25 who is 44-years old and headed something called the

1 Harlem Textiles Project, that in the prime of her life,
2 died from an asthma attack.

3 I think that it is time that we move beyond,
4 I think that it is time that we work collectively to
5 implement these changes sooner than 2007 or 2006. And
6 I think we can do this. Thank you.

7 MS. MARTIN: Thank you very much, sir.

8 Ms. Rubel.

9 MS. JENNY RUBEL: Thank you for the
10 opportunity to speak to you today. My name is Jenny
11 Rubel, and I'm here as an intern from the New York
12 Public Interest Research Group. I'm here to urge you
13 to adopt the toughest possible standards to reduce
14 pollution from heavy-duty vehicles.

15 Here in New York, smog sends more than 12,300
16 people to emergency rooms each year, and causes over
17 510,000 asthma attacks. Making matters worse, a study
18 by local air pollution control officials estimates that
19 diesel exhaust is responsible for 125,000 cases of
20 cancer in the United States.

21 Air pollution is an issue that residents of
22 urban areas, especially in New York City, have to deal
23 with on a daily basis. All throughout the year, but
24 particularly during the summer, individuals, even those
25 who do not suffer from asthma or other diagnosed lung

1 diseases like myself, can feel the effects of air
2 pollution from itchy eyes and difficulty breathing.

3 In order to protect the public health, we
4 must require drastic reductions in pollution from these
5 large trucks and buses as soon as possible.

6 I was, therefore, disappointed to learn that
7 the EPA has delayed the rating until 2010. In
8 addition, because high sulfur fuel will poison the new
9 diesel clean up technologies, we must ensure that all
10 diesel fuel is fully cleaned up and readily available.

11 Specifically, I urge you to, first of all,
12 reduce diesel sulfur levels to no more than 15 parts
13 per million nationwide for both on- and off-road
14 vehicles by 2006. Secondly, clean up all big trucks
15 and buses by at least 90 percent 2007. Third, ensure
16 that big trucks are meeting the emission standards on
17 the road, and not just during the engine tests. And
18 finally, I urge you to increase the use of diesel
19 alternatives, such as electric and fuel cell buses.

20 These measures are critical to the protection
21 of public health and the environment. I hope you will
22 seriously consider them. Thank you for allowing me to
23 speak today.

24 MS. MARTIN: Thank you very much, we
25 appreciate it. And finally Mr. Henry, if you can

1 please present your testimony.

2 MR. CYRUS HENRY: I have a presentation. My
3 name is Cyrus Henry, I am a Ph.D. chemist of Octel
4 America. For the last 27 years my principal area of
5 work is (inaudible).

6 MS. MARTIN: Excuse me, if you could please
7 use the microphone. Thank you.

8 MR. HENRY: One of the provisions of the
9 proposed rule will prohibit the use downstream of
10 refineries of additives that contain more than 15 parts
11 per million of sulphur.

12 For most additives, that is only an
13 inconvenience in the sense that the solvent that is
14 used with the additive must be cleaned up (inaudible).

15 But there is a small niche group of additives
16 called "static dissipator additives" that contain
17 sulphur as part of their active ingredient. And what I
18 would like to request today is permission, or some sort
19 of exception to permit downstream use of these
20 additives. And, in fact, there's not an awful lot of
21 latitude that's required, because in general the
22 sulphur content in use concentration of these additives
23 is very small, on the order of a few parts per
24 million. And so by allowing the downstream sulfur
25 contribution of less 0.2 ppm, these additives could be

1 used.

2 Essentially, they help prevent the
3 possibility of electrostatic ignition during tank
4 truckloading and loading ramps. About a million of
5 these loadings take place every year, and very
6 frequently the last load in the truck was gasoline, so
7 there are flammable vapors present.

8 The API records during the period of
9 recordkeeping, which stopped in 1981, showed that there
10 were 121 ignitions during tank truck loading. These
11 incidents continue to occur. The incidents or rate of
12 incidents has reduced. But in 1994, which was soon
13 after the introduction of low-sulfur diesel, a series
14 of these occurred in Minneapolis. And the final
15 ignition destroyed not only the truck, but the loading
16 rack and damaged several other surrounding trucks. So
17 it's a serious problem.

18 These incidents come about because when fuel
19 moves through piping pumps and so forth, it tends to
20 entrain electrostatic charge. And this occurs in the
21 same way that you generate a charge rubbing across the
22 carpet. Movement causes charge liberation. This
23 charge in low conductivity fluids can accumulate with
24 the fuel in a receiver. And if you have flammable
25 vapors present, you may have a spark which can then

1 ignite those vapors.

2 Just as point of reference, if you walk
3 across the carpet in winter and feel a spark, that
4 spark was probably energetic enough to ignite a
5 flammable (inaudible) combination.

6 The tricky part of this, which even some
7 people in the business don't understand very well, is
8 that this can occur even though a truck, a loading
9 pipe, and all that, are properly grounded. And that is
10 because the fuel itself may be so resistant to current
11 flow, the charge that's in it accumulates (inaudible)
12 and literally can't get through the fuel itself to the
13 ground. And so even if it's grounded, you can still
14 have this internal spark from the fuel surface to the
15 interior of the tank, which can cause a fire or
16 explosion.

17 So there are a variety of ways that this can
18 be handled. There are procedures that are well-known
19 in the business, like reducing the flow rates and so
20 on, that help mitigate electrostatic charges. But that
21 varies over a very broad range, dependent on minor
22 trace factors such as the composition of materials and
23 trace materials in the fuel.

24 The flammable vapors result from switch
25 loading from gasoline to diesel, which is very, very

1 common in the petroleum industry. It's a fact of
2 life. Sparking sources can be minimized, but they
3 cannot be eliminated. And one of the best solutions to
4 help prevent this kind of accident is the use of static
5 dissipater additives to prevent accumulation of
6 charge.

7 These could, of course, be added by the
8 refiner. But these are frequently multiple events at
9 terminal loading racks, and the terminal operation is
10 often not the responsibility of the refiner. The fuel
11 goes from him and the majority of fuel goes through a
12 pipeline to a terminal maybe several owners away
13 removed from him. So it's not really his problem.

14 And it is well-known that when these
15 incidents occur, another one is likely. So that the
16 downstream operator needs a way to address this
17 quickly. And the use of these additives is an
18 excellent remedy. Furthermore, when you add them
19 downstream, you also minimize the concentration. You
20 don't to have to worry about loss during the
21 distribution system.

22 As I said before, all of the available static
23 dissipater additives contain more than 15 ppm sulfur as
24 part of the active ingredient. However, the normal use
25 concentration is very low, on the order of one to three

1 parts per million typically. And the concentration in
2 the fuel is easily monitored with available
3 instruments, such as those described in the ASTM
4 D2624. Something like this. (Indicating on screen.)

5 You put the probe three-quarters of its
6 length into the fuel, press the button marked "major,"
7 and read the result. So you can very easily monitor
8 the conductivity, which can then be a surrogate for
9 measuring sulphur content. As you know, the D2622,
10 which is normally required by the EPA, is fairly
11 complex and requires requisite expertise. This
12 instrument does not.

13 Also, it allows for 0.2 ppm of sulphur. It
14 will be essentially undetectable by D2622. That will
15 be about three percent at 0.2 of the precision of the
16 methods.

17 We are actively seeking alternative
18 additives, but certainly at the likely time that this
19 rule will be implemented it will not be known for sure
20 whether they will be available.

21 Hence, I think you can feel very comfortable
22 that there's going to be pressure to develop such
23 additives, because refiners and fuel suppliers are not
24 going to want to give away (inaudible) margin to an
25 additive supplier. There are substantial performance

1 requirements which are not easy to meet. And also
2 there's an advantage to have the same additives for
3 diesel fuel as used for aviation fuels.

4 Aviation fuel approval will take eight to ten
5 years. I will reiterate my recommendations is that you
6 modify NPRM to permit downstream use of static
7 dissipater additives under conditions that assure ULSD
8 sulfur content is not increased by greater than
9 0.2 ppm.

10 MS. MARTIN: Thank you very much. This, I
11 think, concludes this panel. We appreciate you all
12 very much for coming, and the rest of you for being so
13 patient. We would like to quickly move into the next
14 panel.

15 Mr. Carhart, would you like to begin,
16 please.

17 MR. BRUCE CARHART: Good afternoon, thank you
18 very much. My name is Bruce Carhart, I'm the Executive
19 Director of the Ozone Transport Commission, or OTC.
20 OTC was created by Congress as a result of the Clean
21 Air Act Amendments of 1990 to coordinate ground-level
22 ozone control planning in the Northeast and
23 Mid-Atlantic. Twelve states and the District of
24 Columbia are represented on OTC.

25 I would like to say right up front that we

1 support the engine emission and fuel standards
2 contained in EPA's recent diesel proposal, because we
3 believe that they will help us in our efforts to clean
4 up the air in our region. The Northeast and
5 Mid-Atlantic states have experienced a pervasive
6 ground-level ozone problem for many years.

7 Ground-level ozone is a major public health
8 concern, and we have already had days in our region
9 this year which exceed the National Ambient Air Quality
10 Standards. Our states have adopted many of their own
11 air pollution control strategies to reduce the
12 emissions of pollutants that cause ozone. Strategies
13 include both controls on emissions of volatile organic
14 compounds, also known as VOC, and nitrogen oxides,
15 known as NOx.

16 Coordination on a regional level is critical
17 because ozone is a regional air pollutant. Ozone can
18 in fact be transported over hundreds of miles downwind
19 of NOx and VOC sources. A regional problem needs a
20 regional solution, and with the national nature of
21 motor vehicle traffic and sales, a strong national
22 program helps us to solve a regional problem.

23 It is important at this hearing to stress the
24 role of NOx, because diesel engines are large
25 contributors to our overall NOx inventory. Reductions

1 in NOx emission are critical. Our studies of ozone
2 show that regional NOx emission are strongly related to
3 regional ozone formation and transport.

4 Correspondingly, reductions in regional NOx
5 emissions generally reduce regional ozone formation and
6 transport.

7 We in the Northeast and Mid-Atlantic states
8 have done a lot to reduce NOx emissions within our
9 region. For example, in 1994 we approved the OTC NOx
10 Memorandum of Understanding or MOU, which substantially
11 reduces NOx emissions from major stationery sources,
12 such as power plants and large industrial boilers. We
13 just issued a report on the first year of this second
14 phase of our effort, which documented more than a
15 50 percent reduction in NOx emissions from affected
16 sources in 1999.

17 As stationery sources of NOx are reduced,
18 mobile sources become a larger proportion of the
19 remaining NOx which needs to be addressed as a part of
20 our state plans to reduce air pollution. EPA's recent
21 finalization of the Tier 2 program for light-duty
22 vehicles and trucks is certainly a good step forward to
23 reducing broad regional reductions of NOx emissions.

24 However, Tier 2 does not address heavy-duty
25 diesel engines and fuels, which we know will become an

1 increasing part of the problem.

2 Now let me address EPA's proposal
3 specifically, and indicate a number of major points we
4 would like you to keep in mind.

5 First, we support the proposed engine and
6 fuel standards that EPA has published. We know that we
7 will need additional emission reductions from diesel
8 engines as soon as possible. And we know that major
9 reductions in diesel fuel sulfur are fundamental to
10 attaining those emission reductions. It is clear that
11 diesel sulphur is a major impediment to the development
12 of a range of emission control technologies for diesel
13 engines. Reducing diesel fuel sulphur all the way down
14 to a cap of 15 ppm by mid-2006 as EPA has proposed,
15 should provide sufficient flexibility for the
16 development and utilization of new technologies. The
17 EPA should finalize this proposal as soon as possible,
18 but no later than the end of this year.

19 Second, while we believe that the engine
20 standards themselves should be finalized, the phase-in
21 schedule should be accelerated. With the
22 implementation of low sulfur fuel in mid-2006, we are
23 not convinced that four years are necessary for program
24 phase-in. Diesel engines turnover relatively slowly,
25 and any possible acceleration of the phase-in will be a

1 positive step.

2 Third, we believe that while this proposal is
3 a major plus for us as states as we prepare our
4 long-term plans, more needs to be done on the off-road
5 fuel. Reduction in on-road diesel fuel sulfur, while
6 absolutely necessary, does raise the issue of where the
7 extra sulfur will be directed in the refinery process.

8 Benefits of the on-road diesel proposal would
9 be substantially reduced if the sulfur were simply
10 directed into off-road diesel fuel and other off-road
11 fuels. We believe that EPA should finalize rules
12 during 2001 that makes non-road fuel subject to the
13 same standards as are being proposed for on-road diesel
14 fuel.

15 Fourth, we are pleased that EPA has developed
16 this proposal to reduce multiple pollutants
17 simultaneously. Producing a comprehensive regulation
18 that reduces ozone precursors and fine particulates,
19 while reducing toxic air pollutants at the same time,
20 is good public policy.

21 In summary, we believe that EPA should
22 finalize this proposal as soon as possible, but no
23 later than the end of this year, 2000. We are
24 supportive of this proposal, and believe that with a
25 few changes that it can be even better.

1 As a part of my statement, I am including a
2 copy of the resolution OTC approved at its annual
3 meeting on June 1, 2000. We will also be submitting
4 detailed written comments by the deadline. Thank you
5 for the opportunity to come before you today, and I
6 would be glad to take any questions you may have.

7 MS. MARTIN: Thank you very much. Mr. David
8 Bartlett.

9 MR. DAVID BARTLETT: Thank you, good
10 afternoon. My name is Dave Bartlett, and I'm here
11 today on behalf of the Diesel Technology Forum.

12 The Forum is a new group working to enhance
13 public dialogue with a wide range of stakeholders,
14 including the EPA, other government agencies, and other
15 interested parties. Our intention is to explore a wide
16 range of opportunities to reduce emissions from both
17 existing and new diesel engines, while recognizing the
18 inherent benefits of diesel technology.

19 Diesel power systems -- that is the engines,
20 the fuels, and the after-treatment systems -- that are
21 the subject of today's hearing, power our economy.
22 They are the centerpiece of our nation's supply and
23 distribution network. And in the age of the internet
24 and e-commerce, diesel power systems have taken on an
25 even more important role facilitating the greatest

1 economic expansion this country has ever seen. They do
2 more work, move more goods, and help more businesses
3 and people than ever before.

4 This proposal to reduction emissions and
5 require cleaner fuels in new diesel trucks and buses
6 starting in 2007, marks yet another milestone in the
7 continuing improvement in diesel technology. New
8 diesel engines powered with today's fuels emit less
9 than one-eighth the emissions of engines built just
10 over 12 years ago. If adopted, the proposal currently
11 under consideration today could result in as much as a
12 90 percent reduction in emissions beginning in 2007,
13 and that's on top of improvements already online for
14 2002 through 2004.

15 We support the direction of EPA's proposed
16 rule that will result in lower diesel emissions and
17 cleaner diesel fuel in 2007. We're especially pleased
18 that for the first time EPA has used the systems
19 approach in setting future fuel and engine standards,
20 an approach that recognizes that engines and fuels are
21 both parts of an integrated diesel power system.

22 A systems approach is more important than
23 ever since for the first time engine manufacturers,
24 companies that manufacture exhaust after-treatment
25 equipment, and fuel refiners all have important roles

1 to play to achieve the significant reductions in
2 emissions that the EPA is proposing.

3 Whatever the outcome of the debate over how
4 much sulphur should be allowed in diesel fuel, I think
5 everyone agrees that lowering sulphur content coupled
6 with advances in diesel technology, will improve air
7 quality. And while this hearing is focused on future
8 reductions in air pollution, we should not lose sight
9 of the tremendous progress that's been made in the past
10 in New York State, in the entire Northeast, and indeed
11 throughout the nation.

12 For example, in New York air quality has
13 improved dramatically over the last 10 years, from 33
14 exceedances in 1988 to only 3 in 1998. That's a
15 76 percent reduction in the days of poor air quality.
16 Both Rochester and Buffalo are two areas that have had
17 the most dramatic improvements of all. Both Rochester
18 and Buffalo had no ozone exceedances days from 1994
19 through 1999.

20 What is most encouraging is that on a
21 national basis, overall criteria pollutant emissions
22 have declined 34 percent from 1970 to 1997. This
23 reduction has taken place at the same that the US
24 population has increased 31 percent, and the economy
25 has more than doubled in size. Over that period of

1 time the gross domestic product has increased
2 114 percent.

3 How does pollution decline at the same time
4 that we've seen massive increases in manufacturing,
5 construction, transportation, agriculture, and all the
6 other activities that constitute economic growth?

7 The answer is that these activities have
8 become cleaner at the same time that Americans have
9 demanded more of them. We see the future of diesel
10 power systems in both these trends. Diesel power
11 systems have become much cleaner, and through
12 continuous improvement, they will become cleaner
13 still. And as diesel technology becomes cleaner, it
14 will continue to do more work, powering more trucks to
15 deliver more goods than ever before.

16 Diesel power systems are an essential part of
17 the quality of life that we enjoy today, providing the
18 most efficient, economical and reliable power for
19 whatever the need. It is technology that is defined by
20 innovation and continuous improvement, meeting the ever
21 increasing needs of the consumer whatever the
22 application and whatever the need.

23 Make no mistake about it, this proposal
24 represents a significant challenge for engine
25 manufacturers, exhaust treatment suppliers, and fuel

1 refiners that are the members of the Diesel Technology
2 Forum. But we are confident that together we can build
3 on our past progress and produce the cleanest, most
4 economical, reliable diesel power systems ever.

5 While this proposal deals with new technology
6 going forward, there are many opportunities to address
7 some important issues in the existing fleet.

8 We congratulate Governor Pataki and others
9 here in New York, who were involved recently in
10 developing a comprehensive program to inspect and
11 repair diesel trucks and buses found to be emitting
12 excessive smoke. When properly maintained, diesel
13 engines do not smoke. And frankly, we wonder why only
14 13 states have such inspection programs today.

15 The Northeastern states have been leaders in
16 the development of these programs, and we challenge
17 other states around the country to consider the
18 adoption of smoke testing programs. We have the tools
19 and the resources available to assist that effort.

20 This March, the EPA issued a challenge to
21 retrofit 10,000 engines in the next two years. The
22 Forum is pleased to be working alongside the EPA in
23 that effort. We're bringing together resources to
24 identify engines of all types in a wide variety of
25 applications to determine the feasibility of lowering

1 emissions by adding exhaust after-treatment systems,
2 modifying engine emissions controls and/or using
3 cleaner diesel fuel. We are encouraged by the
4 possibilities for success with this program, which will
5 include engines in a full range of applications from
6 marine vessels to highway trucks.

7 In conclusion, members of the Diesel
8 Technology Forum support EPA's systems approach to
9 reducing emissions from diesel engines by enhancing
10 fuel quality.

11 Members of the Diesel Technology Forum, while
12 not taking a position on specific fuel sulfur levels or
13 other issues under debate today, support the EPA's
14 decision to take a systems approach to reducing diesel
15 emissions. However the specifics of this debate are
16 resolved, diesel power systems are poised to deliver
17 even more the efficient, reliable, and economical power
18 demanded by the American people.

19 As leaders in technology and innovation,
20 members of the Forum are committed to working with the
21 EPA, with state governments, and with other interested
22 parties to continue future improvements in diesel
23 emissions, and to take meaningful steps now to address
24 concerns in the existing fleet. Thank you, and I would
25 be happy to answer any questions.

1 MR. RALPH BOMBADIERE: Thank you for giving
2 me the opportunity to testify of EPA's proposed rule to
3 reduce highway sulfur in diesel to 15 ppm beginning in
4 2006. I am Ralph Bombadiere, the Executive Director of
5 the New York State Association of Service Stations &
6 Repair shops.

7 I am here today representing a membership
8 that is struggling in a highly competitive and volatile
9 market. We are on the frontline, so to speak, when our
10 customers pull into our stations and face ever higher
11 fuel prices brought about by the impact of global
12 market forces and environmental regulations.

13 Of course, our customers don't understand
14 pump prices in those terms, which makes it all the more
15 difficult for us on the street. However, my members
16 are aware of these influences on price as part and
17 parcel of their business. Daily they confront the very
18 real impact that governmental regulations have on their
19 livelihood.

20 That is why I join in today with the
21 opposition of other with other stakeholders relative to
22 the costly impact this reduced sulfur proposal will
23 have on my members.

24 To begin with, from my very practical
25 experience, consumers are only willing to go so far to

1 absorb higher fuel costs for environmental benefits. I
2 know what's popularly accepted -- that the Americans
3 are willing to pay more for clean air. But that's not
4 the reality. Otherwise, why is there such sensitivity
5 to even the most modest price increases at the pump? I
6 can predict that if this proposal goes through and it
7 affects supplies and increased costs upward of from
8 4 cents a gallon to 13 cents a gallon, as the analysts
9 estimate, we will all hear -- not just from the dealer
10 on the street -- the outrage loud and clear. It will
11 make the truckers' protests from the past winter look
12 like a tea party.

13 As I understand it from other industry
14 experts, under this 15 ppm proposal, diesel
15 manufacturing costs would increase about 12 cents per
16 gallon. These costs don't even include higher costs
17 for distribution since moving the ultra-low sulfur
18 through the pipeline with other products is
19 problematic. You have to ensure that the low sulphur
20 fuel doesn't become contaminated. Furthermore, if the
21 low sulfur requirements requirement are phased-in, it
22 would require suppliers, distributors, and retailers to
23 segregate two different diesel fuels. My members will
24 then obviously have to decide, under a phase-in, which
25 diesel fuel to sell since most would not have the

1 ability to add another diesel tank. From a broader
2 view, we already know that storage capacity on the East
3 Coast is minimal. So, how the major distributors would
4 add capacity is a mystery to me.

5 Obviously, cleaner air comes at a price and
6 we realize this. To a certain extent, I suppose the
7 customer does, too. However, I am told that the
8 stringent proposal of 15 ppm will reap only a very
9 minor clean air benefit in contrast to the industry's
10 50 ppm proposal, which yields a 90 percent reduction in
11 sulfur levels. The industry proposal, it is estimated,
12 would increase the per gallon cost about 6 cents.
13 Frankly, I'm not sure that that's even going to go over
14 well with our customers, but it's certainly better than
15 13 cents.

16 Additionally, my members have serious
17 concerns about the availability of supply of this fuel.
18 Just the hint that supplies might be tight sounds an
19 alarm in the market. We can see it happening right now
20 to retail prices with the threat of the Unocal patent
21 decision hanging over our heads. These kinds of market
22 influences don't need much pushing to translate into
23 higher prices. All this is to say, that while analysts
24 on both sides of this issue predict increases of
25 anywhere from 3 and 4 cents 13 cents a gallon to

1 13 cents a gallon, this proposal might have an even
2 greater impact.

3 I'm a realist. I've seen it before in this
4 business. And I don't need to go back to ancient
5 history. In April, the DOE/EIA's short term energy
6 outlook for the upcoming summer season (April-
7 September) estimated average retail gasoline prices at
8 regular grade of \$1.46 per gallon. A 25 percent
9 increase over last summer. As you know, that average
10 has already been drastically exceeded, and the peak
11 driving season has just got underway. So much for
12 predictions and "outlooks."

13 In conclusion, let me say this: Our members
14 and their families enjoy the benefits that pollution
15 reductions have brought over the last 25 years, just
16 like everyone else has. What's more, my members
17 probably understand better than anyone what those
18 benefits have cost. What they don't understand is why
19 the reasonable industry proposal can't be adopted when
20 the clean air benefits would realized would be about
21 the same as with the agency's proposal.

22 We believe it's time for the agency and all
23 other environmental regulators to consider the cost of
24 their proposals and factor this into the decision
25 making process before charging ahead. We would all

1 would like to wear a white hat. And frankly, in
2 bearing the brunt of most of the clean air act
3 regulations, I think our industry has the right to wear
4 the white hat as well. We're not necessarily your
5 adversaries in this quest for a cleaner environment,
6 we're merely the implementers of the regulations who
7 must juggle their obligations to comply with the law
8 and make a living at the same time. As we see it, this
9 proposal will just make this already difficult juggling
10 act plain impossible. Thank you.

11 MS. MARTIN: Thank you very much. Now, if we
12 could have Clark (inaudible).

13 MR. CLARK WITSA: (Phonetic) My name is
14 Clark Witsa, I'm here to testify on behalf of State
15 Senator Eric Schneiderman. His district includes the
16 neighborhoods of Chelsea, Clinton, the Upper West Side,
17 Washington Heights, Inwood, Riverdale, Kingsbridge and
18 Norwood in the Bronx.

19 I am here today to urge the Environmental
20 Protection Agency to adopt the strictest possible
21 standards to reduce diesel pollution from heavy-duty
22 vehicles. The guidelines you have proposed in May were
23 a brave step in fighting the diesel pollution that
24 poisons our communities. Please do not back away in
25 your commitment to ridding our environment of harmful

1 diesel fumes.

2 Diesel emissions remain one of the most
3 serious public health threats in the United States
4 today. Although only 2 percent of all vehicles run on
5 diesel, this fuel causes 27 percent of the smog-forming
6 pollution, and 66 percent of the soot produced by all
7 of the nation's motor vehicles. Every year, smog
8 causes over 6 million asthma attacks and 150,000
9 emergency room visits. And every year, more than
10 40,000 die prematurely from breathing soot and fine
11 particle pollution.

12 The deadliness does not stop with smog and
13 soot. Diesel emissions contain more than 40 known
14 hazardous air pollutants, including arsenic, benzene,
15 and formaldehyde. Many major studies have found a link
16 between diesel exhaust and lung cancer. One study has
17 linked diesel exhaust to 125,000 cancer cases in the
18 US.

19 Furthermore, diesel trucks and buses are
20 speeding up the process of global warming. These large
21 vehicles are responsible for more than 15 percent of
22 the transportation emissions of carbon dioxide, the
23 leading contributor of global warming.

24 To put a stop to this destruction of our
25 communities, I urge the Environmental Protection Agency

1 to mandate a 90 percent clean-up of emissions by 2007.
2 In order to do that, sulphur in diesel fuel must be cut
3 by no less than 97 percent. There can be no middle
4 ground on diesel fuel.

5 I also urge you to get rid of the phase-in
6 period for the new standards, which will not take
7 effect for seven years. That's plenty of time for
8 engine manufacturers to make the change in technology.

9 Finally, we must begin investing in new
10 technology to develop alternatives to diesel that can
11 serve the same role without harming the environment and
12 our health.

13 I thank you very much for letting me
14 testify. If you have any questions, please direct them
15 to me as so appropriate.

16 MS. ELECTRA BROWN: Thank you for the chance
17 to speak here today. My name is Electra Brown of the
18 West Houston Street Block Association, downtown
19 Manhattan. We have a particular problem on West
20 Houston involving a federal law passed in 1986, which
21 senator Tom Duane has referred to, of a one-way
22 westbound toll on the Verrazano Bridge. This has had
23 the unfortunate and dangerous effect of encouraging
24 large truck traffic to find other means of getting
25 across New York City when headed westbound to avoid a

1 double toll. This adds to traffic from Brooklyn
2 through Manhattan through the Holland Tunnel. Since
3 this so-called "experiment," huge trucks have been
4 plighting our streets in downtown Manhattan.

5 Downtown Manhattan always has diesel soot on
6 our windowsill. You can see it, it isn't just in the
7 air. We need more testing in our air to see how
8 seriously the toxic emissions are affecting the air
9 downtown. (Inaudible.)

10 To fully clean up smog, we urge you to
11 increase the use of diesel alternatives. And we also
12 urge you to ensure that big trucks are meeting
13 emissions standards on the roads, not just during the
14 engine tests. These measures (inaudible) of my
15 neighborhood, as well as environmental and public
16 health. Thank you.

17 MS. MARTIN: Thank you very much. And
18 finally we have Ms. Roth.

19 MS. DEBBIE ROTH: Thank you for giving me the
20 opportunity to present testimony today on behalf of
21 State Assemblymember Deborah Glick, 66th District, New
22 York County, which falls in lower Manhattan which
23 you've already heard quite a bit about.

24 I'm here today to applaud you for your
25 proposal to eliminate sulfur from diesel fuel and to

1 set tougher emission standards for big trucks and
2 buses.

3 Manhattan has the highest level of
4 particulate matter emissions in the eastern half of the
5 country, and over half of these emissions come from
6 diesels. We are well aware of the harmful impacts that
7 this pollution has on our health and the environment.
8 Cancer, heart disease, and asthma. New York City has
9 the unfortunate distinction to boast one of the highest
10 rates of asthma in the country. As asthma levels
11 continue to rise, especially in communities where
12 diesel depots are located, we must act with the great
13 urgency to reduce the emissions of these heavy-duty
14 trucks and buses.

15 A year ago, I stood before the Metropolitan
16 Transportation Authority asking them to fulfill their
17 commitment to convert their diesel bus fleet to cleaner
18 fuel vehicles. I introduced state legislation that
19 would oblige the MTA to promulgate a plan to phase out
20 diesel buses. As we at the state level continue to
21 seek out ways to clean our air it is vital that you
22 adopt the toughest possible national standards.

23 Running through this district is one of the
24 busiest thoroughfares in the New York Metropolitan
25 area, which to no one's surprise is also an air quality

1 non-attainment zone. The corridor to the Holland
2 Tunnel serves vehicles traveling inter-borough and
3 state-to-state. Heavy-duty trucks and buses sit idling
4 on our streets, all the while spewing diesel exhaust
5 into our air. Efforts to clean up the state's public
6 transportation system will only bring about a fraction
7 of the relief that we need in hot spots such as this.
8 We need a commitment at the national level to eliminate
9 soot and smog pollution, letting clean air be what sets
10 the standard and evidence that compliance is ongoing.
11 Enforcements of these federal standards must be backed
12 by the threat of financial sanction for those states
13 that are non-compliant.

14 As I understand it, your proposal will clean
15 up diesel fuel and curb diesel exhaust emissions. I
16 want to express strong support for even more stringent
17 emission standards, resulting in particulate matter and
18 oxides of nitrogen emission levels that are 90 percent
19 and 95 percent below current standard levels. And to
20 that end, I support a national sulphur cap of no more
21 than 15 parts per million for our diesel fuel supply.

22 Any effort to weaken this proposal is an
23 attempt to sacrifice our public health solely for the
24 protection and gain of the oil industry. I urge you to
25 put public health first. Let's reduce diesel emissions

1 from big trucks and buses by 2007 -- no extended time
2 lines -- no excuses. Once implemented, this proposal
3 will be a victory for our health and the environmental
4 quality of this state and of the country. Thank you.

5 MS. MARTIN: Great, thank you very much. We
6 would like to ask for the next panel. Thank you for
7 coming and being patient. We will start with you,
8 please.

9 MR. CURTIS SEYFRIED: Thank you. My name is
10 Curtis Seyfried, I am Project Manager for Nos Quedamos,
11 which is a community development corporation in the
12 South Bronx.

13 Our neighborhood is situated between a
14 triangle of three of the major interstates or
15 parkways. In the Bronx, you have the Bruckner
16 Expressway on your east, you have the Major Deegan on
17 the west, and the Cross Bronx Expressway to the north.
18 It's also next to Hunts Point, which is the home of 24
19 waste transfer stations which get garbage trucks going
20 in and out on a constant basis all day.

21 We're also in the same neighborhood where the
22 AMR, American Marine Railway, wanted to place another
23 transfer station. This would be supposedly taking
24 waste out by rail, unfortunately Harlem River yards
25 (inaudible) to take out the trash that they want, so

1 most likely if this had (inaudible) it would have ended
2 up going out by truck, now that's shot down. We find
3 out that the deregulation of the power infrastructure,
4 that there is a power company who wants to put a power
5 plant there, in fact, DEC (inaudible) all in
6 communities of color.

7 I don't really want to quote figures and
8 things like that, what I want to talk about in
9 particular is what we're really here for today, because
10 what we're really here about is the children. I grew
11 up as a teenager in the sixties and the EPA was put
12 together in the early seventies, after passage by
13 Congress of the Clean Air Act and the Clean Water Act
14 because of atrocious things like the burning of the
15 Ohio River. I don't know if you around when the rivers
16 in the United States used to catch on fire they were so
17 polluted. That was what the industry did.

18 What the EPA was put together for was to
19 protect the public from a polluting and dangerous
20 industry, and this has not changed. Industry still
21 pollutes. They do anything they can.

22 The oil industry has been here all day,
23 you've heard from many different refineries. And if
24 you walk down the hall, you see what they do with some
25 of those profits. They have a nice fancy luncheon down

1 there with mescaline salad and fancy forks and the
2 plates and spoons and cloth napkins, all to lure you
3 into doing what they want. All to make you believe
4 that the \$11 billion dollars in profits that they make
5 isn't enough money. It isn't enough money to protect
6 the citizens of this country from their pollution.
7 Their taking 1 or 2 percent of that money away to take
8 sulphur out of fuel is too much to ask out of their \$11
9 billion in profits. And I think that's absurd. In
10 fact, I think it's more than absurd, I think it's
11 criminal.

12 I would like to paraphrase something and it
13 won't be exactly, because I don't remember the words
14 exactly as they are written. But there is a document
15 that was written about 200 years ago in the formation
16 of this country, and part of it is that:

17 We the people of the United States America do
18 hold that all people -- I changed the word "men" to
19 "people" all of us, men, women, white, all people --
20 are created equal and endowed with the basic rights of
21 life -- and I stress that most importantly-- liberty,
22 and the pursuit of happiness.

23 I have heard refiners talk about how they
24 might be put out of business. Well, I've had a
25 business, I got put out of business. But I'm still

1 here, I'm alive, I can walk around. I can create
2 another business, I can get another job. I'm not
3 dead. I'm not buried six feet underground, dead
4 forever, permanently. We don't have some business
5 where you die. When a child or an adult dies of asthma
6 in the hospital, that's it. They don't get another
7 chance.

8 And in actuality, if you look at a lot of the
9 statistics in hospitals, the deaths are not even
10 attributed to asthma -- they are attributed to cardiac
11 arrest, because that's what happens. That's the end
12 result. (Inaudible) has been trying to get hospitals
13 in the South Bronx to record not just the actual cause
14 of death as cardiac arrest, but what caused the cardiac
15 arrest. (Inaudible) to get these statistics done
16 accurately, so the people can really see.

17 You know, we walk around and you meet more
18 people with inhalers, more people wheezing. You have
19 people that can't exercise because they have asthma and
20 they cannot exert themselves that much, not because
21 they are lazy, because if they exercise they could
22 die. They could have asthma attacks and die.

23 You know, sometimes I feel like I really
24 should have brought a violin in here because listening
25 to the oil industry whine and cry, and how much money

1 it will cost -- while they have a fancy lunch, while
2 they have left 100 fancy brochures with information
3 that they just left. They left them here. That's
4 money, that's paper that should get recycled. But this
5 is what the extra money goes to. It doesn't go into
6 the hands of the retailer. He hurts a lot. He doesn't
7 get a lot of that money, it goes to the big oil
8 companies.

9 The small refiners I have sympathy for. They
10 should get some sort of exemption or assistance. They
11 should get a some sort of a low-interest loan system.

12 But when you look at the history of this
13 country, when America wants to go to war we don't say
14 we wish, we don't have enough time to get ready, hold
15 this war until we get the technology ready -- we go to
16 war. We get the technology. We put up the money. And
17 whatever else. That's what it's all about. We find
18 the money to fight a war.

19 Well, what we need is a war on smog, a war on
20 air pollution, a war on asthma that is killing our
21 children, killing our seniors, and killing basically
22 everybody.

23 I used to live one block from the
24 Williamsburg Bridge, and when I left my windows open
25 and they would be filled with soot. You would wipe it

1 up, and in two days you would find another layer of
2 black soot. And that's what I was breathing. I have
3 air-conditioning now. But as someone pointed out, that
4 is a privilege.

5 And what you hear in the media about how
6 supposedly the American public is crying about the
7 increase of gas prices -- it's not the American public
8 that's crying out, it's the media making a scene. When
9 the American public goes out and buys big SUV that if
10 they were really so concerned about paying that extra
11 price at the pump, they would be buying Honda Civics or
12 a Honda Insight, which is a hybrid.

13 So I don't know if the American public is
14 really that concerned. Compared to the rest of the
15 world, America and Americans are privileged. Because
16 in most of the rest of world, the price is \$3-5 a
17 gallon and they drive less and they have better mass
18 transportation. In most parts of Europe you have real
19 mass transit, and people can safely bicycle on the
20 roads.

21 MS. OGE: Thank you very much for your
22 testimony. I agree with you what this is all about is
23 protecting the health of the public, and more
24 important, to protect the children. All our children.
25 Thank you very, very much. Ms. Vanessa Plasencia.

1 MS. VANESSA PLASENCIA: We are United
2 Community Center, which is a community-based
3 organization and we're very pleased to be here.

4 Our community organization promotes activism
5 for our children, and so this is an opportunity for our
6 children to come out and actively take a role in their
7 future. We have a big problem with asthma. We have
8 one of the highest rates of asthma in the city, so our
9 (inaudible) wanted to take a role in this. And they
10 wrote a letter to the MTA, and I think it represents
11 basically what we want for our community so -- and
12 we're a little nervous here -- so we'll begin with
13 Anthony.

14 ANTHONY GEREZ: Hi, my name is Anthony and I
15 would like to read a letter.

16 We are writing to you because of our
17 displeasure in your plans to purchase more diesel buses
18 and bus depots near the Brooklyn-Queens border. As
19 young people who attended United School Center at the
20 school which is located in East New York, we have
21 learned that our community has the highest rate of
22 hospitalization for asthma in the city. We have also
23 learned that particulate or dust can trigger an
24 increase of asthma, bronchitis, lung cancer, and a
25 variety of other respiratory ailments. We are aware

1 that the MTA is assuming responsibility for it and
2 begun to convert to compressed natural gas. We aware
3 that almost no dust --

4 STEVEN: Hi, I'm Steven. We are asking that
5 the MTA respect our community by stopping the purchase
6 of diesel buses and not placing a diesel bus depot in
7 our neighborhood, and converting to CNG as you are
8 doing in Long Island. Please let our voices be heard
9 so that we can grow up to be healthy and empowered
10 adults. Thank you.

11 THE CHILDREN: I'm Anthony, age 11. Justin,
12 age 10. Kenneth, age 10. Monique, age 11. Donna,
13 age 11. I'm Charles, age 12. (Inaudible), age 11.
14 Darnel, age 11. Julio, age 10. Donessa, age 11.
15 Tristan, age 13. Devin, age 12. Steven, age 12.
16 Steven, age 12. Julian, age 11. Johan; age 13.
17 Jacob, age 11. Randy, age 11. Amy, age 12. Sergio,
18 age 11.

19 MS. PLASENCIA: So as you can hear, we have
20 quite a group here. And we have an environmental class
21 and we learned about the particulate matter and how it
22 gets deep in the lungs and can cause asthma. We're
23 asking MTA, we're asking you, please stop these
24 purchase of diesel buses. This is our future
25 (Inaudible). We want them to be healthy and also to

1 have healthy and empowered families.

2 MS. OGE: Thank you, Ms. Plasencia, for
3 bringing the children forward. And we are truly
4 honored to have them here and testify on this important
5 issue. Now we'd like to hear from (inaudible.)

6 UNIDENTIFIED: Good afternoon, my name is
7 (inaudible), and I live in the Bronx and I attend high
8 school in Harlem. The reason why I'm here today is to
9 let EPA know why clean air is so important to me.

10 The first reason is because of my mother. My
11 mother is asthmatic. On certain days I go to school,
12 and while I'm sitting there in the classroom I worry
13 sometimes that my mother might have an asthma attack
14 and I would not be there to help her in any way, shape,
15 or form. And that worries me a lot.

16 The second reason is, and I don't remember
17 his name, a fellow came up here and he said that diesel
18 fuel is not only linked to asthma attacks, it's also
19 linked to other diseases such as lung cancer. And I
20 see for myself that liking to go lay outside in the
21 park, and then a bus, a diesel bus passing by almost 20
22 to 45 minutes around the clock every day. I could
23 develop later on lung cancer. And I fear that I will
24 not have a normal childhood. I worry that all of these
25 things can happen so much. Things that can happen to a

1 child these days and age, and it's something that
2 really worries me.

3 I feel that the idea of lowering sulfur in
4 diesel fuel is a great idea and I think we should
5 continue with that idea, try to implement it earlier
6 instead of 2007. Try to do it as soon as possible. No
7 waiting, because you will never know what will happen
8 next. Things are taking turns in different ways.

9 It's like it's very emotional certain times
10 to lose somebody to cancer, to lose somebody from
11 asthma. Somebody that you love, somebody that was
12 there for you when you were younger. Somebody who
13 raised you, who taught you what's good and what's
14 wrong, taught you respect and how to respect other
15 people, how to respect yourself and others.

16 Worrying about all these things really gets
17 in the way of my education and I think that it is a
18 good plan that you're doing. It let's me concentrate
19 more on my education and try to be what I want to be
20 later on. Thank you for letting me speak.

21 MS. OGE: Thank you for coming. On behalf of
22 the EPA panel, I want to thank all of you for taking
23 your time from your daily activities, and especially
24 the young children, to come and to honor us with your
25 attendance. We will take a short recess to give the

1 court reporter a break.

2 (Recess.)

3 MR. FRANCE: Let's get started. Marge Oge
4 and Dawn Martin had to leave for Chicago. My name is
5 Chet France, and I'll be wrapping up the hearing along
6 with Carl Simon, who has joined us.

7 Okay, let's start with the next panel. Arron
8 Mair, Sarah Massey, Marina Cardona, Marie Valentine,
9 Bill Menz, Marion Feinberg, Barbara Warren, and Leon
10 Tulton.

11 MR. ARRON MAIR: Good evening, I would like
12 to thank the EPA for hosting this hearing. My name is
13 Arron Mair. I am Board President of Marvin Hill
14 Environmental Justice. Our organization is in the
15 capital, Albany, and I live in Albany, New York.

16 Our organization is also a member of the
17 Northeast Environmental Justice Network, which consists
18 of members from the state of New York, New Jersey,
19 Connecticut, Pennsylvania, Massachusetts, Rhode Island,
20 Vermont, New Hampshire, Maine, Maryland, Delaware,
21 Washington, D.C., and Michigan.

22 Unlike the title and all of the affiliations,
23 I want to point out first and foremost I'm a father, a
24 taxpayer, and a homeowner. In fact, I had to leave to
25 drive down to testify this evening.

1 I am typical of a lot of fathers in most
2 inner cities who are community advocates and
3 volunteers -- it takes a toll on the family. But in
4 fighting and trying to seek redress, it also costs us
5 time money and resources that are family, but also time
6 away from family and children. In fact, I had to delay
7 my baseball because tonight is very important.

8 Let me say we are fully in support of EPA's
9 regulations and rulemaking that will reduce a highway
10 diesel fuel sulfur.

11 But let me also add a little bit of
12 perspective as a father and a family member, and also a
13 little bit about my community. In most urban
14 communities, they happen to be in some of the most
15 industrial areas of a particular region. In our case,
16 it's on the Hudson River. And equally important, it is
17 an area that is often under-represented. When it comes
18 to things like zoning and influence on zoning boards,
19 they often are at a disadvantage. Our community is no
20 different.

21 Our community has a disproportionate share of
22 business. We have an inordinate number of truck
23 stops. The highway arterials are rutted throughout our
24 community.

25 Our children, in order to get to a park, for

1 example, two weeks ago we had an event down at the
2 Hudson River, they had to dodge heavy traffic. It's
3 the 787 arterial, about eight lanes of traffic, no
4 sidewalk. It's a hazardous situation.

5 But equally important, it's one of the few
6 places to recreate, albeit it's not a clean place where
7 children recreate. My daughter a year ago had an
8 asthma attack. My daughter is typical of a lot of
9 children.

10 Albany is also kind of odd, because if you
11 want to go north -- we have dead lakes there from the
12 sulphur dioxide. And also the Hudson River, which is
13 contaminated with PCB.

14 So our children have very few options. They
15 happen to be near heavy industrial and truck congested
16 areas. So whenever we have an opportunity to improve
17 the quality of the environment for our children, we
18 want to applaud and encourage you, because it's very
19 important. Many of the children of the communities who
20 use the park -- which is adjacent to a truck stop,
21 idling diesel trucks -- often have to take bronchial
22 dilators with them. It's a very sad state of affairs
23 when children at a park of recreation have to take
24 bronchial dilators or steroids. Stopping the attack is
25 just not enough, we have to worry also about long-term

1 use of the medications and side effects.

2 And when we talk about the disproportionate
3 impact, we also look at the fact that our children,
4 more so than other children, have to look at a dirty
5 environment, and we have to start to raise questions as
6 to why.

7 Granted this does not by any means cure the
8 overall inequities, but it starts to deal with them.
9 (inaudible), if there is a cleaner fuel, if there is a
10 cleaner (inaudible) to the fixture in that field and
11 that, by nature, starts to reduce the particulates,
12 then it's a good thing.

13 It's a given that these trucks, these diesels
14 are right near our community. I don't want to be like,
15 you know, as they say the proverbial (inaudible), it's
16 thrust upon us. We have no choice, this is the
17 community that we live in.

18 But also, my daughters' grandma is in the
19 South Bronx, I can't tell you that we can't send our
20 daughters there. In fact, six years ago my daughter
21 had to be hospitalized. And, again, when children
22 can't recreate, can't visit grandma, because of the
23 high particulates due to diesel exhaust and other
24 sources, it's a sad state of affairs.

25 Let me say our children, our community, is

1 disproportionately affected. Even so, while it is not
2 a permanent solution, it's a step. It's a step in
3 eliminating environmental inequity.

4 But it's a (inaudible) of poor public policy
5 and poor decision making which -- basically, I want my
6 daughter to be able to spend summer at grandma's. You
7 know, she's going to be graduating in two years. Just
8 think, she has choices, but hopefully, you know,
9 something will happen when she starts to bring her
10 children -- not right now, because obviously she'll
11 probably be at college and thinking about starting a
12 career -- but hopefully if she does have a child in the
13 future, it can play with its cousins in the South
14 Bronx.

15 I cannot say enough about what needs to be
16 done to improve environmental quality. And I cannot
17 underscore -- as you've heard earlier -- cannot
18 underscore the benefits.

19 Granted they say it will cost, but let me say
20 this: One of the things that I have been monitoring is
21 all of the current rise in gas prices, even the
22 government is at a loss to explain why oil prices are
23 going through the roof. So it's a little bit more. I
24 say that this is going to jack prices up.

25 I think that this is not -- I think oil is

1 overpriced, and I would submit (inaudible) as educated,
2 perhaps, as the guy that runs the business down there,
3 the real squeeze is the corporate level. You should
4 not be pitting human health, environmental protection,
5 my daughter's health, against the fact that the guy has
6 to make a buck. It's not acceptable.

7 It's not an acceptable loss, especially when
8 through phoney zoning practices -- and they do
9 gerrymander -- the bus depots, the rail stops,
10 (inaudible), and they are putting it in black people's
11 backyard or brown people's backyard.

12 Thank you for your time.

13 MR. FRANCE: Thank you very much. The next
14 testifiers are Sarah Massey and Marina Cardona.

15 MS. SARAH MASSEY: Good evening. My name is
16 Sarah Massey, I am Communications Director of West
17 Harlem Environmental Action.

18 I thank you for the opportunity to testify in
19 favor of the new stringent emission standards.

20 As you have heard from our Executive
21 Director, Peggy Shepard, and others from the
22 environmental community, there is a direct correlation
23 between diesel particulate pollution and health
24 problems such as asthma and cancer.

25 The community we work with is the unfortunate

1 asthma capital of the United States, with the highest
2 asthma hospitalization rates. My colleagues from the
3 environmental community have already discussed the
4 proposals for cutting diesel emissions and they've
5 discussed the different parts of your rules.

6 I will not repeat their discussions, but say
7 that we wholeheartedly support their arguments. I
8 would like to talk about and read to you a statement
9 prepared by (inaudible) an area resident.

10 She wrote: I'm a resident of Washington
11 Heights. As a member of a volunteer organization that
12 operates a playground and community garden, I'm very
13 attentive to air quality. On overcast days, diesel
14 particulates buildup and are trapped under low-lying
15 clouds. People have to stay inside and avoid outdoor
16 activity. Days when we New Yorkers are prisoners.

17 The term "diesel soot particles" is
18 (inaudible) to me. I call it "New York grit." You can
19 touch it. All you have to do, with the heavy bus and
20 truck traffic, is to look under your fingers. Cross
21 the window sill, it's covered with an accumulation of
22 dark gritty soot. That's diesel soot particulates.

23 Imagine breathing that stuff all day. People
24 who have asthma or respiratory disease are breathing in
25 that stuff. Picture them fighting for breath, staying

1 home from school, losing education days, losing days
2 from work.

3 I plead, I ask the EPA to move as rapidly as
4 possible. Don't be persuaded to reduce the standards.
5 Think of the millions of people whose lives will be
6 better when the air quality is better. Who take strong
7 vigorous action on behalf to reduce diesel fuel.

8 I think Mrs. (inaudible) clearly stated the
9 problem of air pollution in Manhattan. She gives us a
10 visual of dark soot, and the same soot that clogs our
11 lungs, triggers asthma, and causes cancer.

12 Today we have already heard from the oil
13 industry that the standards are too extensive. And
14 we've heard from others who have questioned the need to
15 implement the emissions standards.

16 I ask that oil industry and those
17 distractors, those detractors from the EPA regulations,
18 to consider the price of caring for a person while ill
19 from asthma. And I ask how long do people have to wait
20 for relief from diesel air pollution?

21 I now want to talk to you about bit my
22 personal story. I am an urban planner and worked as a
23 public transportation advocate. A couple of years ago
24 I read in the New York Times on 116th Street
25 (inaudible).

1 Not only was I aghast because New York
2 City -- the place I love and call home -- could be so
3 polluted, but also aghast, because my best friend lived
4 in that area, on 116th Street between First and Second
5 Avenues. I called her and I said we've got to talk
6 about you moving. I've read about this again and again
7 in the newspaper, and today in the New York Times
8 (inaudible). And I said well, we're going to have to
9 move quickly.

10 We were lucky I was working as an urban
11 planner. And as someone with this experience in this
12 area, I was able to understand what high the
13 hospitalization rates meant, and I was able to
14 understand what her living in that neighborhood meant.

15 We were also lucky because we had the means
16 to move. I have been working in Harlem for only a few
17 months now, and I am shocked and moved to tears when I
18 hear the stories about people living with asthma. I
19 feel like it's almost every person that I meet in the
20 neighborhood has a story.

21 I think the EPA is making great strides
22 forward with these regulations. And I would like to
23 ask that you do implement these stringent diesel rules
24 as soon as possible. Do not hesitate. Thank you.

25 MS. MARINA CARDONA: Hi, my name is Marina

1 Cardona. What I'm going say, I'm going to say in
2 Spanish, then I will write to you and say what I want
3 to say. (Proceeding in Spanish.)

4 MS. MASSEY: In summary, she's saying in 1996
5 she did not understand a lot about asthma, but she was
6 very affected by it because the apartment in which she
7 was living was located directly above a garbage
8 compressor. And at that time, she went for assistance
9 to West Harlem Environmental Action and began to
10 understand more about the situation.

11 It's very important for her to be here today,
12 because she's beginning to understand just how many,
13 many people in Washington Heights are being affected by
14 asthma.

15 MS. CARDONA: (In Spanish.)

16 MS. MASSEY: She said in upper Manhattan has
17 six out of eight bus depots. They have over a thousand
18 diesel buses. They spew dirt and smut into the air.
19 That triggers asthma attacks in the area that are home
20 to the highest asthma rates in the country.

21 MS. CARDONA: (In Spanish.)

22 MS. MASSEY: She said while the oil industry
23 claims it's too expensive, but the small cost of
24 cleaner fuel is much less than the enormous cost of
25 asthma in a community. And she's petitioning the EPA

1 to regulate or to legislate cleaner fuel.

2 MS. CARDONA: Thank you.

3 MR. FRANCE: Thank you very much. Marie
4 Valentine.

5 MS. MARIE VALENTINE: Good evening. My name
6 is Marie Valentine, and I'm here to speak on behalf of
7 DaimlerChrysler on the subject of EPA's proposal to
8 modify heavy-duty vehicle emission control regulations
9 and on-highway diesel fuel requirements.

10 DaimlerChrysler is a vehicle manufacturer of
11 light-duty and heavy-duty vehicles that operate on
12 gasoline and diesel fuels. DaimlerChrysler is a
13 demonstrated leader in the development of
14 environmentally sound vehicle technologies. This is
15 evidenced by our commitment to support the pursuit of
16 tough emission performance goals.

17 Reducing heavy-duty emissions will aid in
18 achieving the nation's air quality goals, and we stand
19 ready to do our part. This is a logical follow-up to
20 the Tier 2 light-duty vehicle emission regulation
21 adopted last December. We agree that EPA needs to look
22 at you all pollution sources when determining a
23 comprehensive emission reduction plan.

24 In our opinion, the combination of a
25 low-sulfur on-highway diesel fuel program with feasible

1 stringent new emission standards for heavy-duty engines
2 and vehicles will assist in improving air quality
3 nationwide. We congratulate EPA for continuing to link
4 vehicles and fuels, as was recently done in the Tier 2
5 regulations. This system approach is the only way to
6 achieve the emission reductions envisioned.

7 We commend the EPA's initiative to propose a
8 15 ppm sulfur cap for the on-highway diesel fuel. This
9 critical first step will enable the continued
10 development and advancement of diesel emission control
11 technology that is necessary if the heavy-duty industry
12 is to meet the new proposed standards which reflect a
13 90 percent reduction in NOx and PM.

14 Sulfur is a poison that blocks the use of
15 after-treatment technology by rendering the hardware
16 inoperable at today's 500 ppm level. The developers of
17 the after-treatment technologies have indicated that a
18 very low level of sulfur in diesel fuel is critical for
19 the future development of these devices. The lower
20 level will permit catalyst-based control strategies to
21 be optimized for maximum emission reduction
22 efficiencies.

23 Recent data indicates that sulfur free diesel
24 fuel is the enabling requirement for the use of NOx
25 adsorbers, Continuously Regenerating Technology (CRT)

1 systems, and Selective Reduction Catalysts (SCR) due to
2 their sensitivity to sulphur. Further information on
3 this will be included in our written comments.

4 The world's engine manufacturers have defined
5 "sulfur free" diesel fuel, as specified by the
6 World-Wide Fuel charter, as the correct fuel to enable
7 the use of NOx and after-treatment technologies where
8 stringent emission standards are required. Therefore,
9 the sulfur level in diesel fuel must be reduced to
10 allow the use of after-treatment technology as an
11 emission control strategy for diesel vehicles as has
12 been so successfully done for gasoline vehicles.

13 Let me emphasize that the proposed sulfur cap
14 is only the first step needed for diesel fuel. A
15 sulfur free diesel fuel with a minimum cetane of 55 and
16 a maximum of 15 percent aromatic limit is ultimately
17 necessary. This fuel composition would support the use
18 of diesel fuel in the light-duty vehicle market, and
19 provide the benefits of reduced emissions and increased
20 fuel economy -- another goal of the current
21 administration, while also maintaining customer
22 satisfaction.

23 A diesel powertrain is an important option
24 for passenger vehicles. Diesel vehicles could have a
25 significant role in the reduction of fuel consumption

1 by offering a 40 percent advantage over the gasoline
2 vehicles on a per mile basis. The sophisticated diesel
3 vehicles currently in the European market have higher
4 endurance, reliability, and torque, which is a
5 desirable performance attribute.

6 On the emission side, diesel vehicles have
7 inherently low hydrocarbon and carbon monoxide
8 emissions, no evaporative emissions, and have long-term
9 stability of emissions, which will further be reduced
10 with after-treatment, but the enabling fuel is
11 necessary.

12 We applaud the initiatives by some oil
13 companies to deliver clean diesel fuel to some
14 localized markets in advance of the regulations. The
15 lesson learned is that cleaner fuel can be available
16 and is being done at an affordable price.

17 Should a phase-in of clean on-highway diesel
18 fuel be found necessary, we encourage EPA to have it
19 start in 2004. The oil industry has previously
20 challenged EPA to make all known changes in one step,
21 not two separate steps, so capital investment
22 strategies can be optimized. Therefore, the 2004
23 suggested start date would link diesel with the
24 gasoline sulfur control required by Tier 2, and allow
25 light-duty clean diesel as a viable powertrain.

1 In conclusion, let me restate the key points
2 of our message:

3 First, the EPA's proposal of reduced sulfur
4 diesel fuel for on-highway is great first step.

5 Second, clean fuel packaged with feasible
6 emission standards is the correct path to enable
7 further reduction in emissions.

8 DaimlerChrysler believes that the diesel
9 fuel, as specified in the World-Wide Fuel Charter is
10 necessary to enable low emissions and fuel-efficient
11 technologies.

12 DaimlerChrysler is continuing to review the
13 proposal, and plans to submit written comments
14 addressing other issues in the NPRM, and further expand
15 on our diesel fuel position.

16 Thank you for the opportunity to speak to
17 you.

18 MR. FRANCE: Thank you. Bill Menz.

19 MR. MENZ: My name is William F. Menz, Jr. I
20 represent the Connecticut Department of Environmental
21 Protection. Connecticut DEP congratulates EPA on the
22 progress made in air pollution control of mobile
23 sources, notably through the Tier 2 motor vehicle
24 standards and low-sulfur gasoline requirements.

25 The Connecticut DEP strongly supports EPA's

1 proposal on May 17, 2000 of additional requirements for
2 heavy-duty engines and vehicles, and highway diesel
3 fuel sulfur control. It's a crucial additional
4 component of the nation's and Connecticut's mobile
5 source emission control programs. In order for the
6 nation to receive the substantial environmental and
7 health benefits, Connecticut DEP encourages EPA to
8 implement the proposed rule without delay or
9 weakening.

10 In particular, Connecticut DEP notes that
11 implementation of EPA's proposed rule is projected to
12 result in particulate matter and oxides of nitrogen
13 emission levels that are 90 percent and 95 percent
14 below current levels respectively.

15 In order to meet these more stringent
16 standards for diesel engines, the proposal rule calls
17 for a 97 percent reduction in the sulfur content of
18 diesel fuel. Thus, clean diesel fuel will be available
19 in time for implementation of the light-duty Tier 2
20 standards. As a result, the nation will receive
21 immediate PM and NOx reduction benefits for both the
22 heavy-duty fleet and diesel vehicles regulated through
23 EPA's Tier 2 program.

24 Among the proposed rule's requirements, the
25 Connecticut DEP particularly supports the fuel sulphur,

1 ozone precursor, and PM requirements. The standard for
2 diesel fuel sold to consumers for use in highway
3 vehicles caps the sulfur content of 15 parts per
4 million, beginning June 1st, 2006. We believe this is
5 an essential component for the proposal and stress the
6 need for a cap of no higher than 15 ppm to take full
7 effect nationwide by mid-2006.

8 The Connecticut DEP also endorses the
9 appropriately stringent emission standards in the
10 proposal. The written comments I have submitted spell
11 out the proposed NOx, PM, standards, I'm not going to
12 read that now.

13 Connecticut DEP recommends one change to the
14 proposed rule when promulgated: Elimination of the
15 four year NOx phase-in so that the proposed vehicle and
16 NOx standards take full effect in 2007, rather than on
17 a percent of sales basis between 2007 and 2010. Not
18 only would the full implementation of the NOx standards
19 in 2007 better address the general national need to
20 counter the upward trend in heavy-duty emissions from
21 projected increased vehicle miles traveled per year,
22 but full NOx implementation by 2007 is especially
23 important to Connecticut's plans to attain and maintain
24 the National Ambient Air Quality Standards for ozone.

25 While the US efforts to implement new NOx

1 vehicle exhaust controls have been limited in the
2 absence of low-sulfur diesel fuel availability and
3 standards requiring NOx exhaust control on heavy-duty
4 diesel engines, such necessary control technologies are
5 proven effective through a history of use in other
6 countries. For example, several European countries
7 have made rapid progress to develop and implement such
8 technologies, given the 2005 effective date for the
9 Euro IV emissions standards and corresponding
10 low-sulfur fuel requirements.

11 Today, the DEP stresses the importance of
12 additional ozone precursor reductions to Connecticut,
13 given the severe ozone NAAQS non-attainment status of
14 the New York/New Jersey/Long air quality region, of
15 which southwestern Connecticut is a portion. In 1999
16 the one-hour ozone standard was exceeded in Connecticut
17 on 11 days, eight-hour standard on 33 days. In 2000,
18 the one-hour standard has been exceeded on 3 days, and
19 eight-hour standard has been exceeded on seven days so
20 far this summer, as of June 14.

21 Connecticut's one-hour ozone NAAQS attainment
22 demonstration as submitted to EPA relies on a suite of
23 local, regional, and national emission control
24 strategies to achieve the attainment of the one-hour
25 ozone NAAQS by 2007. The Tier 2 requirements were

1 identified as an important part of the weight of
2 evidence to demonstrate attainment.

3 With respect to Connecticut's State
4 Implementation Plan, EPA has identified that additional
5 emission reductions are required to achieve the
6 one-hour ozone National Ambient Air Quality Standard in
7 southwestern Connecticut. Both the vehicle and fuel
8 standards of the proposed rule will assist Connecticut
9 to achieve the necessary reductions to attain the
10 one-hour ozone standards.

11 In addition, the NOx engine standards of the
12 proposed rule will provide needed additional reductions
13 essential to maintain ozone attainment in light of the
14 expected continued growth in vehicle miles traveled up
15 to and beyond 2007.

16 Thank you for the opportunity to state
17 Connecticut's strong commendation to EPA for all of its
18 mobile source efforts, of which the proposed
19 requirements are a crucial addition. In conclusion,
20 the Connecticut DEP encourages EPA to move forward with
21 expeditious promulgation of this rule as proposed, with
22 consideration to strengthening the NOx engine and
23 vehicle requirements by eliminating the proposed four
24 year phase-in. Thank you.

25 MR. FRANCE: Thank you very much. The next

1 testimony is Marian Feinberg.

2 MS. MARIAN FEINBERG: Thank you for this
3 opportunity to speak to you today. My name is Marian
4 Feinberg, I'm the Health Coordinator of the South Bronx
5 Clean Air Coalition. And former chairperson of the
6 Community Advisory Board Environmental (inaudible).

7 After World War II, the United States
8 Congress and various state legislators, including our
9 own, in their dubious wisdom chose to invest billions
10 of our tax dollars in a national highway system, and
11 dis-invested in the rail freight and public
12 transportation.

13 We are today reaping the fruit of this
14 indulgence to the petroleum and oil industry in the
15 form of unprecedented increased pollution and an
16 incredibly frightening rise in the level of respiratory
17 illness in the United States and, most particularly, in
18 many of our communities.

19 Nowhere is this more true than here in New
20 York City, which is not connected to the freightway
21 system, and therefore has tremendously increased the
22 amount of truck traffic through our city streets and
23 through our city road system. And it is within New
24 York City, precisely in the most industrialized areas,
25 all of them are low income, primarily communities of

1 color, communities that bear this burden of this truck
2 traffic.

3 For example, of the 12 community board
4 districts in the Bronx, (inaudible) 16 percent of the
5 children hospitalized for asthma in New York City.
6 This figure is astounding. One out of every six
7 children hospitalized in New York City comes from a
8 small area in the South Bronx.

9 And it is this area precisely which is the
10 highest volume of truck traffic. (Inaudible). The
11 high volume of truck traffic (inaudible), other more
12 stationery air pollution sources in the community, so
13 the people are bearing a double burden.

14 In the Monthaven area of the South Bronx,
15 which has the highest asthma rate in the Bronx, for
16 example, is where we have one of the largest
17 concentrations of high-rise public housing in the
18 entire United States. And these units of public
19 houses, not coincidentally, face this whole major truck
20 transportation hub with highways and bridges all joined
21 together.

22 It's a housing that -- if you go to those
23 buildings, you see that the color of the brick on the
24 side that is facing the highway is a completely
25 different color brick than the side that's facing the

1 city street. And if the brick has changed color,
2 imagine what color the lungs of the people are who live
3 in those buildings.

4 There are also a number of public schools
5 which face and literally sit on those highways. A
6 number of schools in our area in the South Bronx have a
7 third of their students with asthma. And if you talked
8 to principals in these schools, you will find that they
9 are trying to grapple with, you know, an absenteeism
10 rate due to asthma, which is really affecting the
11 quality of education.

12 It's even also affecting their education
13 funding, because the funding formula is based on the
14 number of students present on a given day. So they are
15 further penalized, because it lowers the funding rate
16 to our schools, which we're in dire need of as well.

17 So all these effects multiply. We and you,
18 and our environmental representatives here today, have
19 a really unprecedented opportunity with this new rule
20 to begin to address a situation which didn't fall from
21 the sky, but was created by a series of political and
22 funding decisions several decades ago which have
23 brought us to this point.

24 You know, we're not talking about an
25 infectious disease which sprang of how (inaudible),

1 this sprang out of human decisions and we can help it
2 be redressed by human decisions.

3 We also really want to mention -- because we
4 understand that industry representatives are talking
5 about how much these changes are going to cost.

6 We can tell you by some of things that we've
7 mentioned here today by many other stories, we can tell
8 you, I can tell you personally, because I grew up in a
9 household with a sibling and a parent who had asthma,
10 and I saw the children hospitalized there, and the
11 parents who had to stay off work, neglect their other
12 children at home, to stay by the bedside of a
13 hospitalized child --

14 But of what would it have cost the family,
15 what does it cost in loss of work productivity of
16 either an affected adult or adult caretaker of a sick
17 child, of what the psychic cost is to the siblings?

18 A very articulate man talked about being in
19 school, and he said some words about his mom and if he
20 is not home to take care of her. Now this was -- you
21 can tell by his presentation, he is an extremely
22 intelligent boy. If that boy's attention is spent on
23 being worried about his mom, his creative potential is
24 being lowered by the fact that his attention is
25 someplace else.

1 That's an incredible loss to him to our
2 communities, and to the society as a whole. Not to
3 mention the incredible cost to every single person of
4 the rising costs of health care, and the rising
5 percentage of health care dollars spent on illnesses
6 which are affected by diesel emissions. And I don't
7 want to go into the specifics of what sulfur does and
8 whatnot, because people ahead of me have done that
9 perfectly adequately.

10 I just really want to urge you to implement
11 these new regulations as soon as possible. If they can
12 have an accelerated phase-in, we would really like to
13 see that. Because we're talking about a large toll on
14 human life, on social life, on community life, and on
15 the educational life of our nation. Thank you very
16 much.

17 MR. FRANCE: Thank you. The next speaker is
18 Barbara Warren.

19 MS. BARBARA WARREN: My name is Barbara
20 Warren, (inaudible) Consumer Policy Institute, New
21 York. We appreciate the fact that the EPA is holding a
22 hearing in New York, given the significant air quality
23 problems in this metropolitan area. And we hope to
24 hear that you will be scheduling more hearings in New
25 York in the future.

1 There is no question that a stringent
2 heavy-duty diesel (inaudible), and will have an
3 enormous impact. They applaud EPA for their efforts on
4 the current proposal.

5 But while talking about the health effects of
6 diesel and the nationwide benefits of this rule, it
7 falls short in addressing the particular populations
8 that will continue to be impacted: Children, persons
9 with respiratory or cardiac disease, communities living
10 on top of and breathing diesel exhaust, and certain
11 entire large metropolitan areas like New York.

12 While EPA's rule clearly is beneficial, it
13 fails to consider the unique situations in large
14 metropolitan areas. When NESCAUM looked at this issue,
15 it was very clear the extent to which New York State
16 and the New York metropolitan area within New York
17 State dominated the diesel contributions.

18 What this means is that even under the most
19 stringent version and the earliest implementation,
20 there will still be these inequities and unacceptable
21 health risks. This should be addressed up front with
22 the proper promulgation of this rule. Regulating
23 non-road diesel engines and their fuel make a
24 significant contribution, particularly in urban areas.

25 In fact, there are very good reasons to make

1 sure that all diesel fuel meets the sulfur limitations
2 so there is no opportunity for high sulphur fuel; and,
3 number two, make sure that there are regular in-use
4 emissions testing for all diesel engines road and
5 non-road.

6 We would like to mention that such in-use
7 testing -- we're already concerned about the concept of
8 compliance flexibility for refiners. If EPA is to
9 provide compliance flexibility, to address the
10 unacceptable health risks in certain large metropolitan
11 areas we urge EPA, therefore, that if it decides to
12 provide this flexibility, to insist that the fuel in
13 large metropolitan areas meet the most stringent
14 standards at the earliest date.

15 We believe industry changes must be balanced
16 by sufficient health-based information about the
17 (inaudible) and unacceptable health risks that will
18 likely remain even after implementation, and we urge
19 EPA to prepare that kind of information right now.
20 Thank you very much for your attention.

21 MR. FRANCE: Thank you. And the last
22 speaker, Leon Tulton.

23 MR. LEON TULTON: Hi, I'm Leon Tulton. I'm a
24 research assistant at Mount Sinai School of Medicine
25 and I'm here on behalf of Dr. Phillip (inaudible).

1 Unfortunately he couldn't make it today, so I'm going
2 to read a letter on his behalf. The panel has a copy
3 of the letter and a copy of the report.

4 He writes: I am writing to express my strong
5 support for the proposed emission standards recommended
6 by the US Environmental Protection Agency. As a
7 pediatrician who treats children with asthma, I have
8 witnessed the effects of fine particulate matter on the
9 respiratory health of New York City children. Asthma
10 is a major problem in our community, especially
11 (inaudible) is the leading cause of hospital admissions
12 and major cause (inaudible).

13 In a study coauthored (inaudible) last year,
14 we examined the asthma hospitalization rate. We found
15 communities that had the highest asthma hospitalization
16 rate and high (inaudible). Are the most vulnerable.
17 One reason for their great vulnerability is that
18 children in these communities are disproportionately
19 (inaudible) especially components of diesel exhaust.
20 As a physician and health advocate, I proudly extend
21 (inaudible). Sincerely, Phillip J. (inaudible) MD.
22 Thank you very much for your time.

23 MR. FRANCE: Thank you very much. Next
24 panel. If we could first start off with Dave Evans and
25 Tanya Lena.

1 MR. DAVID EVANS: Thank you very much. My
2 name is David Evans, and I'm an Associate Professor at
3 Columbia University in the School of Public Health in
4 the Department of Pediatrics.

5 I'm testifying here today in support of the
6 proposed rule for both personal and professional
7 reasons.

8 My job is developing health education
9 programs for kids with asthma. My open air (inaudible)
10 program that is used now in many schools, and
11 (inaudible) how to take care of asthma.

12 There are many things that can I tell them to
13 do about taking medicines and modifying the
14 environment, but one of my biggest frustrations -- and
15 when air pollution is a major contributor -- it's not
16 that easy to do something about that.

17 I think this is going to make a huge
18 difference for people with asthma. The cap of 15 parts
19 per million and reducing nitrous oxide by 95 percent
20 and particulates by 90 percent will have a major health
21 benefit. And I think it's very important to implement
22 this rule early, because further delay is really going
23 to prolong the effect of diesel emissions.

24 The added costs to truck manufacturers seem
25 to be small. Estimates I've read are around

1 1 percent. And although the added cost on fuel are
2 slightly larger, I think they're well worth the
3 benefits in health.

4 It seems to me it's (inaudible). It's kind
5 of difficult sometimes to estimate the exact cost of
6 the health benefits due to something like this. Just
7 as it's difficult to estimate how much less (inaudible)
8 people who have to pay in repainting their homes.

9 There are many subtle health benefits, but
10 health ones are not so subtle and they are very
11 important to measure. I think the direct costs for
12 asthma care now are about \$12 million a year, and they
13 don't cover many of the indirect losses such as in
14 terms of loss of productivity.

15 I think taking these (inaudible) is of great
16 importance, because diesel emissions, such as nitrogen
17 oxide and particles that are harmful to the lungs,
18 particularly of the elderly. These pollutants reduce
19 lung function. Your airways actually contract and make
20 it more difficult to breathe.

21 In addition, as the next speaker is going to
22 tell you, we now have evidence that inhaled diesel
23 emissions (inaudible). They interact inside the lung
24 in various biological processes, which make the
25 allergies worse. Which is bad news for the 10 percent

1 of those who have asthma. And also for the 25 percent
2 of the population who have allergies and are allergic
3 (inaudible).

4 Children are at particular risk. And
5 children run around more, they breathe faster, they are
6 more active physically. So they are actually inhaling
7 more because their bodies need more oxygen. So I think
8 it's really important that we take this step towards
9 securing good health for their sake as well as our
10 own. Thank you for the opportunity to testify.

11 MS. TANYA LENA: My name is Tanya Lena, I'm a
12 graduate student at the Columbia School of Public
13 Health. My research is currently on community exposure
14 to particulates, and also the mechanisms of diesel
15 toxicity.

16 We have noticed that in New York City in
17 communities with high asthma rates (inaudible) to
18 diesel particulates. And in pilot studies done at the
19 Columbia School of Public Health, there is a strong
20 correlation between regional traffic densities and
21 asthma. Elemental carbon is a very specific marker for
22 diesel exhaust particulate exposure.

23 Even more important, we have shown in Harlem
24 and in the South Bronx (inaudible) are significantly
25 higher than EPA published for averages for urban areas

1 across the US. So that (inaudible) communities to the
2 diesel particulates and they also have serious
3 respiratory problems.

4 The physical and chemical properties of
5 diesel exhaust particulates have been well studied.
6 It's particularly important (inaudible) most of these
7 have a diameter of less than 2.5 (inaudible). In
8 addition, these diesel particulates (inaudible)
9 allergens that are in the environment, such as dust.
10 We sent you the studies.

11 Epidemiological studies completed in Europe
12 suggest also that diesel emissions from trucks are
13 associated in particular with asthma and allergies.
14 (inaudible) found that children who (inaudible)
15 constant outside their homes were two times (inaudible)
16 residential exposure.

17 These results confirm of a number of studies
18 in the Netherlands the study of (inaudible) and lung
19 function in children age 7 to 12. The studies are
20 (inaudible) associated with truck traffic and with
21 automobiles, and were associated with (inaudible).

22 More important, mechanistic research is now
23 providing us with some explanations with how diesel may
24 be associated with (inaudible). For instance, DS
25 Sanchez, et al, working in Los Angeles has shown that

1 when healthy volunteers are (inaudible) that they're
2 producing extremely elevated levels of IGE, which is an
3 immunoglobulin which is indicated (inaudible). So what
4 this means is that those that are exposed in
5 combination are having dramatically enhanced
6 (inaudible).

7 These findings are of concern for US inner
8 city residents, precisely the combination. And there
9 are in vitro studies that have been done. For
10 instance, (inaudible) found that pH in diesel exhaust
11 particulates (inaudible).

12 In conclusion, there is a growing body of
13 evidence both epidemiologic and mechanistic (inaudible)
14 may be playing a role in the present (inaudible) of
15 asthma.

16 So to paraphrase, the scientific evidence is
17 in now which supports the testimony you have been
18 hearing from the residents throughout the day. And
19 it's certain that the regulations would help reduce the
20 asthma prevalence.

21 For these reasons, we urge the EPA to hold
22 fast to the target of 97 percent reduction;
23 furthermore, we urge speedy implementation and proper
24 enforcement of the regulations.

25 I would just like to conclude with a personal

1 experience. When I was doing some of these exposure
2 studies, I developed a wheeze and bronchial
3 constriction. And I had never had asthma symptoms
4 before, and now it has gone away. So an anecdotal
5 revelation about the exposure and the connection to the
6 respiratory system. And I think it's a very strong
7 link. So I think it's an ideal opportunity to act, I
8 believe, in a preventative manner.

9 MR. FRANCE: Thank you very much. The next
10 speaker is John Guinan.

11 MR. JOHN PAUL GUINAN: Good afternoon and
12 thank you very much for the opportunity to testify. My
13 name is John Paul Guinan, and I am a Staff Attorney and
14 Clean Air Advocate for New Jersey PIRG, the New Jersey
15 Public Interest Research Group.

16 I am here today to urge to you adopt the well
17 needed emission standards for heavy-duty trucks and
18 buses. We are certainly welcoming many of the
19 comments, but the one thing I would like you to keep in
20 mind is that we have an air pollution problem. I know
21 that you have been sitting in those chairs, I want you
22 to keep in mind that during every minute you've been in
23 your chairs thousands of people are suffering from
24 pollution-related illnesses in New Jersey alone.

25 That's why I'm here today. Each New Jersey

1 summer, one of every three days it is unhealthy to
2 breath the air due to high ozone levels. This is
3 particularly troublesome for the over 1 million people
4 that have chronic respiratory illnesses.

5 Summertime in New Jersey now means that we
6 see well over a quarter million asthma attacks,
7 resulting in a 26 percent increase in hospital room
8 admissions on bad air quality days. Between 1982 and
9 1995, the number of people in New Jersey with asthma
10 went up 58 percent, even more astonishing is the
11 increase of 90 percent for pediatric asthma.

12 It's not just asthma, as we've heard from
13 many people before. We have studies that link diesel
14 exhaust to cancer and other problematic diseases.

15 Although big trucks and buses are among the
16 largest pollution sources, the oil industry and engine
17 manufacturers have done little to curb this pollution.
18 In fact, we've seen that they've cheated on their
19 emissions tests in the past, which resulted in an extra
20 1.3 million tons of smog-forming pollution each year.

21 In order to protect the public health, we
22 must require drastic reductions in pollution from these
23 large trucks and buses. However, because high sulfur
24 fuel will poison the new diesel clean-up technologies,
25 we must ensure that all diesel fuel is fully cleaned up

1 and readily available before the trucks are required to
2 clean up.

3 Therefore, in order to ensure that all
4 cleaner trucks will have access to the clean fuel
5 necessary to operate, we urge you to require diesel
6 sulfur level with a cap of no more than 15 parts per
7 million nationwide by 2006.

8 Cleaning up diesel fuel by 97 percent will
9 allow the EPA to cut smog-forming pollution by
10 95 percent in 2007, and soot pollution by 90 percent by
11 2007. However, the EPA proposing to wait until 2010 to
12 fully clean up smog-forming pollution from these
13 vehicles. This means that Americans will have to wait
14 another ten years before all new trucks are cleaned up.
15 We'll have to have another ten years of bad air quality
16 and another ten years of bad asthma attacks.

17 In addition, the EPA should take measures to
18 ensure that big trucks are meeting the emission
19 standards on the roads, not just during the engine
20 tests. Specifically, both in-use and on-board
21 diagnostic equipment should be required for all
22 heavy-duty trucks by 2007.

23 Finally, we should increase the use of
24 advanced technology vehicles such as electric buses or
25 fuel cell trucks. The EPA should include a provision

1 in the heavy-duty rule that would provide incentives to
2 introduce more of these cleaner, efficient diesel
3 alternatives into the heavy-duty fleet.

4 These provisions are necessary to protect the
5 public health. We ask that you include them in the
6 final rulemaking. Thank you.

7 MR. FRANCE: Thank you. The next speaker is
8 Omar Freilla.

9 MR. OMAR FREILLA: I planned on coming up
10 here with this very scary looking white construction
11 painter outfit and some gas masks, but unfortunately I
12 got thrown out by the hotel staff. So imagine that I'm
13 sitting up here with my friends in a scary looking
14 outfit and some gas masks and some scary looking
15 (inaudible) and some banners saying "justice now" and
16 "people not profits," and, you know, "healthy kids,
17 not fat cats." Things like that. So just imagine
18 that, all right.

19 All right, all right, but that's okay,
20 because I think that the fact that I will be repeating
21 what everyone has already said means that everyone else
22 pretty much seems to be in accord. So let common sense
23 decide what regulation is going to be drafted.

24 My name is Omar Freilla, and I am with the
25 New York City Environmental Justice Alliance. And am

1 speaking on behalf of the Environmental Justice
2 Alliance. (inaudible) I am urging you today to adopt
3 the toughest and strongest standards on diesel that you
4 can possibly imagine, that you can possibly put to the
5 (inaudible).

6 We have already heard from millions of people
7 who have come out here today that diesel is a threat to
8 our health. People have testified that it causes
9 asthma, is a trigger for asthma attacks. The World
10 Health Organization has acknowledged, the American Lung
11 Association has acknowledged, the Environmental
12 Protection Agency has acknowledged in the past, and it
13 seems like a million and one studies.

14 Over 30 studies (inaudible) diesel exhaust is
15 actually a carcinogen and can induce cancer. It's also
16 been linked to heart disease, and there are many other
17 studies that show numerous other effects of diesel
18 fuel.

19 So in my opinion (inaudible) we already
20 know -- we already know, that diesel fuel, diesel
21 exhaust, particulates, all of these, all of these items
22 lead to reduced health. It reduces your life-span,
23 increases mortality, and just makes life a -- life bad
24 to live at times.

25 In our communities, in low income communities

1 and in communities of color, already we feel the effect
2 stronger. It's in our communities where you see
3 communities of people who are exposed to the greater
4 amount of toxins, the greater amounts of traffic.

5 In New York City, 80 percent of diesel of bus
6 depots are located in communities of color as places
7 where you have more than 50 percent of people in
8 color. Over 80 percent of the bus depots are here.
9 These are the places where buses drive in, buses have
10 to go to these facilities. While the bus line may be
11 (inaudible) they all converge on certain places. And
12 here in New York, Northern Manhattan and Washington
13 Heights, Harlem, six out of eight depots are here.

14 And other communities around the city are
15 also innudated, but they also apply to waste transfer
16 stations. Most of the industry facilities here in the
17 city are in low income communities of color, and these
18 are the places that are most vulnerable. These people
19 are constantly innudated.

20 Not only do you have a situation where it's
21 the most vulnerable people who are dealing with having
22 a facility there that attracts traffic, attracts
23 trucks, and attracts buses, but in many cases you've
24 got truckers you've got (inaudible). So if there is a
25 truck route that's only supposed to go down a street

1 that doesn't have any residences, and truckers taking
2 illegal routes just because it's the quickest path,
3 people who are (inaudible) the windows are open in the
4 summertime -- you need to breathe.

5 And studies have shown that the air outside
6 (inaudible) so there's a lot of talk about well, we
7 need to deal with indoor air pollution (inaudible)
8 because the air that is outside has the same number of
9 (inaudible) you will you still find much of the same
10 things that induce asthma attacks.

11 Studies have also shown, you know, we talk
12 about a trucks's life-span. (Inaudible) the engine
13 that is used ultimately winds up being in your delivery
14 man's truck. So thinking that (inaudible) engine is in
15 new tractor/trailer. So we need to think about the
16 life-span of the vehicle and how that plays into
17 effect.

18 So those are the issues, just some of the
19 issues. We talk about who's being affected by that.
20 Because you have communities that are bearing the
21 brunts and have typically been ignored, and the health
22 situation has been ignored for a long time. And it's
23 about time, and I'm glad that something like this is
24 happening. It's really going to impact the lives of
25 people who have been suffering the most, and who for a

1 long time have been really ignored. And this is really
2 the first time that it's the (inaudible).

3 Asthma isn't the only thing, but it certainly
4 is in epidemic proportions here in New York City. We
5 have places where we talk about differences in asthma
6 rates. New York City has three times the national
7 average for asthma hospitalizations. And the Bronx, as
8 a whole, it's four times the national average. In the
9 South Bronx, it's eight times the national average.

10 You start to get a feel for the
11 neighborhoods, the places that are being affected by
12 this. There was a study that was done just in the city
13 and we see places with like (inaudible) times the rate
14 of asthma hospitalization than in the places like
15 Staten Island, where you don't have trucks barreling
16 down your street. That's the kind of situation that
17 we're living in.

18 And we know it's going to affect anyone with
19 a lung, anyone who breathes air, their lives are going
20 to be improved. But I would like for you to recognize
21 that there are communities in the city and communities
22 in the country, and in these communities the quality of
23 life in these communities has been ignored for far too
24 long. You get really -- we don't need to do this. You
25 need to weight the benefits.

1 The oil industry is saying that they
2 (inaudible). The American economy will not collapse
3 versus the health and the quality of life of the
4 children who are actually bearing the brunts of all of
5 the diesel fumes, the people who are people affected by
6 this.

7 So I'm asking you to cut the sulfur levels
8 (inaudible). The oil industry is crying they say that
9 they can't cut sulfur any less. And really, 7 percent
10 or nothing, that's the minimum that is needed in order
11 to make sure that the equipment that would be able to
12 actually clean the fuel will not be contaminated.

13 The EPA should be taking measures to ensure
14 that big trucks are meeting the specific standards.
15 There should be in-use and on-board particulate
16 equipment tests, so we don't have truck companies and
17 industry manufacturers that are lying about whether or
18 not their trucks actually meet the tests.

19 And we need alternatives to diesel. And I'm
20 really asking, really put in some wording and make sure
21 that we have some sort of standard that's before 2007.
22 But before 2007, there needs to be some sort of push on
23 agencies to actually push as strong as they can for
24 cleaner engines and having alternatives to diesel.
25 Thank you.

1 MR. TIMOTHY LOGAN: My name is Timothy Logan,
2 and I'm here today representing the Organization of
3 Waterfront Neighborhoods which is a coalition
4 representing community groups from all five boroughs of
5 New York City. I think it's about 25 community groups
6 as it stands now. Most of the work that we do focuses
7 on solid waste issues, so while I may not look like a
8 professional athlete, I talk trash for a living.

9 The one thing that we've been seeing in New
10 York City and we appreciate, is that the federal
11 government has been doing a lot -- particularly a lot
12 more than the state and local governments have on solid
13 waste issues, but what we've seen is a proliferation of
14 waste transfer stations and the movement of waste
15 throughout New York City by diesel trucks, whether they
16 be (inaudible) trucks, whether collecting, or whether
17 they (inaudible) -- all trucks, when the city decided
18 that they wanted to close down the landfill on Staten
19 Island, rather than coming up with a plan and waiting
20 until they could fully implement it themselves where
21 they trucking it, they're trucking it through the
22 regular corridors where all the other trucks move.

23 At the same time, EPA and DES put in new air
24 monitors. They were switching from PM 10 to PM 2.5
25 monitors. A great thing. The program, you are

1 required to have a base line of three years. All of a
2 sudden, you have no base line on which to pursue the
3 regulations, because you haven't had them in place for
4 three years. And then you go into court and find
5 judges who were appointed by less-than-public-friendly
6 politicians, who are basically fighting against PM 2.5
7 standards. So now the only monitors that we have in
8 place have no base line, and it may not be a worthwhile
9 standard.

10 All this is to say that the same communities
11 are being impacted again, and again, and again. When
12 they site industries, whether they be waste transfers
13 stations, which I work on, or any other type of
14 industry that is considered to be a bad industry that
15 you don't want to have in your neighborhood, next door
16 to you, where do you think that ends up?

17 It ends up in a low income community, or
18 communities of color. It ends up in communities like
19 South Jamaica, communities like Sunset Park,
20 Williamsburg, Hunts Point. You have diesel stations
21 throughout Northern Manhattan. This is a problem, and
22 it doesn't get solved by (inaudible).

23 We can't wait ten years. A decade is another
24 ten year's worth of children who are coming down with
25 asthma and dying. And when we talk about dying, it's

1 not an abstract, something that nobody knows who's died
2 from it. We have a member of our board (inaudible)
3 died of asthma at 25. How many 25-year olds do you
4 know who have heart failure? It's not from a natural
5 cause, it was asthma and years of asthma medications
6 that damaged his heart.

7 This is the type of thing that is not being
8 reported on a regular basis. We now know that over
9 50 percent of people are being affected. Well, that
10 means that most of these truck movements are harming
11 more than 50 percent of the world population.

12 So basically it doesn't come down to when you
13 (inaudible) have happen, or whether you live in that
14 city or another city, and most people do, that's where
15 people are living these days (inaudible) a large extent
16 is based on the way the industry is set up.

17 And when industry says they can't afford to
18 do that, why can they not? Clearly whenever costs are
19 raised they pass it on to the consumer.

20 So what's the point in delaying and having so
21 many more people injured and harmed? 2007 is not soon
22 enough. Yesterday is not soon enough. That's the
23 issue that all the people have come out here about,
24 people are having press conferences about before
25 9 o'clock this morning. It's now almost 7:30. People

1 continue to talk and they continue to feel in their
2 hearts and have tears well up in their eyes over what's
3 going on, because the people who came here, the
4 community people, whether they are below income, or
5 whether they (inaudible) to live next door, or they get
6 caught up somewhere along the way, they know that's
7 what's going on. That's what this is all about.

8 So when we talk about putting these standards
9 in effect and whether DaimlerChrysler is against
10 this -- you know, she's getting a big paycheck and
11 she's going to continue to get a big paycheck.

12 But how many people are no longer living on
13 this earth because this did not go into effect as soon
14 as possible? There is no reason why we can't put this
15 into effect. Why don't we start phasing it in now? It
16 takes three years, it doesn't have to wait seven years,
17 ten years. That's what's going on. Thank you very
18 much.

19 MS. MARIA BOTTINO: Let me just add a little
20 aside that I can't see. I can't see humidity and
21 smog. I can't wear my contacts because my eyes burn,
22 so I have to wear my glasses and they are not quite as
23 efficient.

24 Members of the Environmental Protection
25 Agency, thank you for the opportunity to testify here

1 today. This hearing marks a historic step in the
2 regulatory process of the use of diesel fuel in our
3 country with this first public hearing in the nation.

4 We hope you craft legislation that will
5 safeguard our public health, protect our national
6 environment, and improve the quality of life for years
7 to come.

8 As it is currently produced, diesel fuel
9 contains high levels of sulphur. Diesel fuel emissions
10 have been linked to increased rates of asthma, cancer,
11 heart disease, and other serious diseases. The
12 nitrogen emissions released by diesel is a major
13 contributor to respiratory illness, particularly during
14 the hot summer months.

15 We New Yorkers are all too familiar with the
16 admonitions. This is particularly dangerous to
17 individuals with compromised immune systems, the
18 elderly, and children. Pollution is also a major
19 contributing factor to low birth rate babies.

20 Nitrogen oxide, which produces a third of the
21 smog along the Northeast United States, is released
22 into the atmosphere by the fleet of diesel trucks and
23 buses that move along our streets and thoroughfares.

24 The (inaudible) of our city continues to
25 allow its major thoroughfares, such as Canal Street,

1 Houston Street, the lower East Side, in Chinatown, and
2 Broadway, and even our residential streets to be choked
3 with diesel truck traffic. While New York is a leader
4 in finance, technology, and business, in the area of
5 public transportation, this city has lacked behind
6 other metropolitan areas in converting to clean burning
7 fuel. It's only recently that it will be forcing its
8 Metropolitan Transportation Authority to replace aging
9 buses with cleaner burning fuel buses.

10 As the Congressman representing the lower
11 East Side, Chinatown, Williamsburg, and other low
12 income communities, I represent these communities.
13 These communities have historically been the dumping
14 grounds for waste transfer stations, electrical power
15 plants, industry plants, bus depots, and even oil
16 spills. We say enough is enough.

17 Communities of color, particularly
18 African/American and Latinos, have among the highest
19 asthma rates in the city of New York. (Inaudible)
20 found that Latino communities in particular are more
21 susceptible to respiratory ailments than others. And
22 Dr. Gene Ford of Harlem Hospital is conducting research
23 to determine whether Puerto Ricans suffer more severe
24 effects of asthma than other Latino communities.

25 On another front, (inaudible) expanded, while

1 building a state-of-the-art clean natural gas burner.
2 If you read the fine print carefully, they retain the
3 right to convert to burning diesel if the price of
4 natural gas becomes too high, and it is they who
5 determine how to define "high."

6 My office is committed to supporting efforts
7 to have this criteria eliminated before any future plan
8 is allowed to go online. I shortly will unveil a major
9 policy (inaudible).

10 Let us sound the first bell hereby affirming
11 that diesel fuel should be 98 percent sulfur free,
12 diesel engines should be (inaudible) and that these
13 regulations should be implemented immediately rather
14 than be phased-in over three years. That all New York
15 City buses and trucks should utilize the cleanest
16 available fuel. That all New York City power plants
17 should utilize the cleanest available fuel.

18 If we agree on these basic principles, we can
19 move forward on this critical piece. With this, we
20 will have the basis of a more intelligent environment.
21 Thank you very, very much.

22 MR. ROCKY CHIN: My name is Rocky Chin. I'm
23 a civil rights attorney, but I'm testifying today as
24 (inaudible) and also a resident of the lower East
25 Side. I live in a six building (inaudible), which

1 overlooks the FDR Drive and I work in an agency, a
2 civil rights agency on the West Side, which overlooks
3 the West Side Highway.

4 During the time that I'm not working or
5 staying at home, I hang around in the area between
6 which is Chinatown and the lower East Side. So you
7 could say that I spend a lot of time around traffic,
8 around trucks, around a lot of idling.

9 And I wanted to -- I know a lot of people
10 have talked about different parts of the city, but I
11 wanted to underscore how this part of the city has
12 gotten increasingly congested. Part of this is because
13 lower Manhattan squeezes everything together, so the
14 streets are narrower and the streets are used for cross
15 transit. And Canal Street is increasingly utilized for
16 truck traffic.

17 This is a very diverse community. A lot of
18 businesses, a lot of -- Fulton Fish Market which, as
19 you know, if you go into that area in the nighttime,
20 has trucks idling all through the night. And on the
21 West Side you have, of course as people already
22 testified, an incredible amount of traffic. So you
23 have idling, idling, a lot of traffic, a lot of
24 trucks.

25 Now I'm testify here as someone who has

1 generally dealt with civil rights issues, race issues,
2 issues of discrimination, and I would like to just give
3 you an anecdote about something that I have experienced
4 myself that I thought was maybe appropriate for this
5 hearing.

6 A couple of years ago I had a chance to
7 testify and to speak in Japan, and the subject was
8 human rights in the corporate culture. And I remember
9 how I was supposed to speak about human rights in the
10 corporate culture in Japan and while I was arriving in
11 the airplane, I happened to run into a bunch of
12 environmental activists as they were attending the
13 Kyoto Conference on Global Warming.

14 And it made me think, after speaking with a
15 number of these activists, how the issues that we
16 address are connected. And that we really need to see
17 the inter-connectedness, not only about how a lot of
18 the communities that we grew up in have been impacted,
19 but also how we, as a society, benefit from cleaner
20 air, better race relations, all these things really
21 make for a better society.

22 So here we have a lot of problems, because
23 most of the people testifying, I would say probably
24 90 percent, are for very strong regulations. But the
25 challenge is really quite dramatic, because a small

1 percentage is opposed to this, and they wield quite a
2 lot of power through the channels that they use.

3 So I think I want to underscore applaud for
4 EPA taking very strong measures, but I want to end with
5 one of the problems that we have in our community is
6 trying to figure out what is the incidence of asthma
7 and so forth. A number of people have testified about
8 studies, I just want to talk about the Chinese, which
9 is a large community in the United States.

10 The Chinese community does not have a lot of
11 health clinics and so forth. (Inaudible) and there
12 aren't really a lot of studies done, but anecdotal
13 information is quite available.

14 For example, a number of people in the
15 community have said that particularly the children who
16 to go school, for example, at Intermediate School 131,
17 this is the largest intermediate school predominately
18 Chinese, immigrant kids have problems with respiratory
19 problems, but these haven't necessarily been linked to
20 trucks. But 131 sits at the entrance of Manhattan
21 Bridge, one of the major areas where trucks are coming
22 in and spewing pollution every day. And Canal Street,
23 as has been said before, has an incredible amount of
24 traffic, and yet we don't really know what the monitors
25 are producing. I don't know. I know there are state

1 and city and federal (inaudible) and I think there
2 needs to be a lot more study as to what's happening
3 along these corridors, and specifically linking it up
4 to studies of the incidence of asthma and other kinds
5 of respiratory illness.

6 The (inaudible) is finishing an audit of
7 their own cases, it will be completed at the end of
8 year. It's high time that we connected with what the
9 EPA is doing. Our communities do not have enough
10 health resources so that we can research these
11 problems.

12 I want to thank you. I happened to have had
13 asthma -- some say you never get rid of it. I happened
14 to live in Los Angeles, and I thanked God when I came
15 here, there's no smog. Little did I realize that I was
16 going into the one of the most polluted urban areas of
17 the country. Thank you very much.

18 MR. FRANCE: Thank you. Next is Ian Taylor.

19 MR. IAN TAYLOR: My name is Ian Taylor,
20 and I'm a policy analyst for the Clean Air Council
21 founded in 1967. The Clean Air Council is a
22 Pennsylvania-based nonprofit member organization
23 working through a combination of public education,
24 community advocacy, and oversight of government
25 enforcement of environmental laws to ensure that we can

1 all live in a healthy environment with clean air.

2 The Clean Air Council has offices in
3 Philadelphia and Harrisburg, Pennsylvania and
4 Wilmington, Delaware. The Council is perhaps best
5 known for its willingness to sue the Environmental
6 Protection Agency when they do not properly implement
7 the Clean Air Act.

8 Thank you for allowing me to testify today on
9 this important issue. On behalf of the Clean Air
10 Council, I urge you to adopt these proposed
11 rulemakings. The quality of America's air is a serious
12 environmental health issue. Emissions from diesel
13 engines continue to pollute the air and endanger the
14 health of many Americans.

15 Philadelphia has the fourth worst air quality
16 in the nation. According to a recent report by the
17 EPA, the air in Philadelphia County exceeded the
18 federal safety level for cancer by 297 times. Small
19 steps have been taken to reduce the level of
20 particulate matter throughout the greater Philadelphia
21 area. Unfortunately, even low concentrations of PM
22 adversely affect human health. A recent study
23 estimated that 2,599 premature deaths are caused by
24 soot particles in Philadelphia annually.

25 Although the nation as a whole is affected by

1 diesel engine emissions, large cities, in particular,
2 are continuing to experience dangerous levels of air
3 pollution. Throughout the country, too many Americans
4 are being forced to breathe high concentrations of
5 harmful particulates each and every day.

6 Less than 2 percent of all vehicles on the
7 road today use diesel fuel. Nevertheless, these
8 vehicles manage to emit more than 50 percent or more of
9 the dangerous soot particles in urban areas, and nearly
10 one-third of all smog-forming nitrogen oxide emissions.
11 Soot particles are extremely dangerous and contain more
12 than 40 hazardous pollutants, including many potential
13 or probable carcinogens. Nitrous oxide reacts with
14 volatile organic compounds in the presence of sunlight
15 to create ground level ozone or smog. Smog exacerbates
16 asthma and other respiratory diseases exacerbates
17 asthma.

18 PM and NOx cause serious public health
19 concerns and contribute to soot and smog pollution that
20 is associated with what I've heard today 40,000 deaths
21 every year, as well as millions of cases of respiratory
22 problems each year.

23 Diesel emissions are also responsible for
24 some 400,000 asthma attacks nationally every year.
25 While air pollution may have more of a long-term health

1 effect to otherwise healthy adults, to vulnerable
2 individuals such as children, the elderly, and those
3 with chronic respiratory and cardiovascular problems,
4 it can be deadly.

5 These groups remain disproportionately
6 susceptible to air pollution, and are the first to feel
7 the effects of diesel emissions. Without adequate
8 regulation, diesel engines will continue to adversely
9 affect the environment, increase the number of cases
10 and heart and lung disease, aggravate asthma, and cause
11 additional public health problems.

12 Epidemiologists in approximately 70 cities
13 around the world have consistently found that more
14 people die and are hospitalized during periods when
15 particulate pollution levels rise even a moderate
16 amount. Rarely has such a clear pattern emerged in
17 epidemiology, and most environmental health experts are
18 now convinced that it is not a coincidence.

19 Despite this overwhelming evidence, opponents
20 of the proposed rulemaking have still managed to find
21 fault with the results of epidemiological studies that
22 link particulate matter with adverse health effects.
23 One of the main industry criticisms has been that
24 confounding factors such as temperature, weather,
25 seasonal factors, or co-occurring pollutants could be

1 all contributing to the observed health effects
2 associated with particulate matter. Currently, a
3 number of carefully designed studies have been able to
4 single out many such factors giving credence to the
5 fact that PM itself is directly responsible for some of
6 the health effects.

7 Recent examinations have been done using
8 clinical and toxicological studies with personalized
9 exposure to PM to correlate these epidemiological
10 results. Several of these studies were done by
11 examining hospital patients and nursing home residents,
12 deriving data on the actual effects of human exposures
13 to particulate matter; something which had previously
14 been unavailable. The latest results from these
15 correlating personalized studies not only conclude that
16 PM is a major contributing factor, but also suggests
17 some reasons why PM causes adverse health effects.

18 For example in the past year, about a dozen
19 major scientific studies have turned up heart pattern
20 changes in animals and elderly people. One study
21 indicated that the tiny particles of PM seem to alter
22 the normal pulsing of the human heart, and that even
23 the air pollution levels commonly found daily in
24 Philadelphia and other cities across the country are
25 enough to disrupt the body's ability to regulate the

1 pumping of blood. Rising particulate counts on a given
2 day are enough to disrupt the beat-to-beat variations
3 that are designed to meet the demands of regular
4 activities ranging from sleep to exercise.

5 This threat is of particular concern to the
6 elderly, those suffering with arrhythmia, and those with
7 heart conditions, and lung disease or asthma. Experts
8 have estimated that particulate pollution may account
9 for 1 percent of heart disease fatalities in the United
10 States, amounting to about 10,000 deaths a year.

11 The Clean Air Council calls on the
12 Environmental Protection Agency to adopt the proposed
13 heavy-duty diesel engine and vehicle standards as
14 expeditiously as possible. Adopt highway diesel fuel
15 sulfur control requirements as expeditiously as
16 possible to prevent the poisoning of emission control
17 equipment in trucks and buses. And also to require the
18 retrofit of older vehicles with diesel engines to meet
19 modern emission standards.

20 Many environmentalists have come here today
21 to praise EPA's proposal, but the Council comes here
22 today to say: What took you so long?

23 A recent poll determined that roughly nine
24 out of ten Americans believe that big diesel trucks and
25 buses should be required to use the best available

1 pollution control technology.

2 Despite all of this information and
3 knowledge, diesel manufacturers and fuel providers and
4 the federal government have continued to ignore the
5 problem. Current diesel engine and fuel standards
6 remain insufficient and outdated. Although heavy
7 trucks and buses are among the nation's largest
8 pollution sources, the oil industry and engine
9 manufacturers have done remarkable little to reduce the
10 pollution from these sources. In addition, federal
11 standards are currently so weak that most diesel
12 engines are not even required to install readily
13 available pollution controls.

14 The Clean Air Act mandates that the EPA set
15 national ambient air quality standards that will
16 protect public health. There is no doubt that present
17 diesel engine emissions do not reflect this goal. In
18 order to protect and improve public health, the EPA
19 must take the initiative to establish comprehensive
20 reductions in pollution from vehicles with diesel
21 engines.

22 The EPA's proposed rulemakings are a step in
23 the right direction, and should be approved. The
24 proposed rulemakings, however, should be improved.
25 Reducing sulfur in diesel fuel by 97 percent will cut

1 smog-forming pollution by 95 percent in 2007 and soot
2 pollution by 90 percent by 2007. Unfortunately, the
3 proposed rulemakings delay implementation of these
4 needed air quality improvements far too long.

5 There is no reason why the EPA cannot shorten
6 the compliance schedule for vehicles containing diesel
7 engines. The standards proposed by the proposed
8 rulemakings may be stringent enough, but the EPA has
9 chosen unnecessarily to delay their implementation.

10 Moreover, because the proposed standards to
11 not take effect for a number of years, Clean Air
12 Council would like to request an additional requirement
13 to the proposed regulation. By the year 2008, two
14 years after almost all the sulfur has been removed from
15 diesel fuel, the Council suggests all heavy-duty trucks
16 and buses 15 years old and less, must comply with the
17 new standards or retrofit with a new converter that
18 would sufficiently reduce their harmful emissions to
19 appropriate standards.

20 Opponents of the EPA's proposal cite
21 increasing costs and a lack of feasible alternatives as
22 obstacles to the implementation of EPA's proposed
23 regulation. In reality, there are a number of options
24 available today that could significantly reduce
25 emission from diesel engines. Natural gas, for

1 instance, is an effective replacement for diesel fuel
2 and appears to be cost effective and environmentally
3 sound.

4 Although an extensive cost study has not yet
5 been completed, the Council, along with other
6 environmental groups, believes that regulation will
7 affect the price of diesel only minimally.
8 Furthermore, the benefits of clean air and improved
9 health would certainly exceed a small increase in
10 costs.

11 If EPA does not move expeditiously with these
12 proposed rulemakings, the quality of public health
13 continues to get worse. Sales of diesel engines are
14 rapidly increasing. Approximately 1 million new diesel
15 engines are put to work in the US every year. Unless
16 EPA is willing to aggressively implement the proposed
17 national low sulfur and diesel engine regulations,
18 diesel emissions will continue to have a significant
19 affect on public health.

20 Clean Air Council believes that diesel fuel
21 vehicles should have the same, or equivalent, strict
22 emission standards as gasoline vehicles. Every vehicle
23 designed should be forced to meet the same pollution
24 control standards, regardless of the chosen fuel,
25 vehicle weight, or engine type.

1 Air pollution is a dangerous and serious
2 threat to all Americans. Congress intended that the
3 Clean Air Act Amendments of 1990 would force
4 technological advances in pollution control. Current
5 diesel engine and sulfur in fuel regulations are far
6 too lenient on diesel vehicles and fuels and remain
7 unacceptable. It is time for the federal government to
8 understand this growing health threat and deal with it.
9 These proposed regulations are a step in the right
10 direction.

11 EPA's proposed action is good news for
12 everyone who wants to breathe healthier air, especially
13 children, seniors, and people with existing respiratory
14 problems. This proposal will ensure that they get it.

15 Thank you very much for the time and
16 consideration, and the opportunity to comment on this
17 crucial public matter.

18 MR. FRANCE: Thank you very much and we
19 really appreciate you sticking it with out us.

20 Right now the last panel -- unless there are
21 other folks -- James Cimino, Lisa Schreibman and Nancy
22 Gibbs.

23 Is there anyone else in the audience that I
24 have not called that wants to testify? Okay, so the
25 first testifier is James Cimino.

1 MR. JAMES CIMINO: I Will submit a more
2 extended form of testimony later on, this will just be
3 very brief. (inaudible). It's quite late in the day
4 and I know we've heard from a variety of interests who
5 have spoken in favor of your proposal. As I've sat
6 here, it's become obvious that the oil industry have no
7 (inaudible). Diesel fumes are bad for our hearts and
8 lungs. These are facts you have heard today several,
9 dozens of times in many different ways.

10 You have also heard (inaudible) assert that
11 the industry dominates the nation's economic
12 (inaudible). When you look at nearly \$12 billion
13 profit of industry just in the first quarter,
14 (inaudible) ill or die from diesel related lung disease
15 or other illnesses (inaudible).

16 I would like to applaud EPA for this
17 proposal, but I would like to see a shorter phase-in
18 (inaudible). These proposed rules are a dinosaur step
19 in the right direction.

20 There is no reason to delay. American
21 ingenuity has brought us progress faster and more
22 efficiently during the past 30 years than we realized
23 could be possible.

24 This need is underscored by every child who
25 misses school struggling to breathe, reeling from the

1 dirty air produced when buses and delivery truck roll
2 by. The technology industry-wide is not even that
3 (inaudible) it flies in the face of our technological
4 spirit. So vehemently they resisted for all their dire
5 predictions, they are enjoying record profits. Instead
6 of embracing modern technology, the oil industry is in
7 Stone Age. That is why this proposal is so important
8 for making use of the technology that will be good for
9 our health and the environment.

10 On a personal level, as an asthmatic, I
11 cannot wait until I can go running without having to
12 stop between 50 and 100 yards. Thank you.

13 MR. FRANCE: Thank you. The next testifier
14 is Tim Barner.

15 MR. TIM BARNER: I thank you for the
16 opportunity to speak today. My name is Tim Barner, I
17 live in Washington, D.C. and I work for 20/20 Vision.
18 But I'm speaking today in my personal capacity, because
19 my boss is going to speak in Atlanta.

20 When I came to New York, I think it was the
21 former chair earlier in the day who said you were glad
22 to get outside of Washington. I came here in part
23 (inaudible) and have citizen input, so I'm glad to be
24 here with you in New York today.

25 Most of my adult (inaudible). I'm looking

1 forward to giving up those techniques of learning to
2 run fast when you see a bus, while you try to keep the
3 black plume away from your head, or frantically rolling
4 up your window. When you live here, you just consider
5 that one of the facts of life. It's obnoxious, but you
6 have to learn to deal with it.

7 The education I've gone through in the last
8 month working for 20/20 is knowing that while it is
9 obnoxious, while it is a fact of life, it's not
10 necessary. I've been lucky I lived in (inaudible) and
11 I've been able to move. But in a way, you do feel
12 trapped. When I live my life in a certain (inaudible)
13 and I realize that there are some options that are
14 doing damage.

15 But the (inaudible) for me is for my kids and
16 grandchildren as well. I want to add my weight of a
17 single voice that with many other people, including
18 those thousands of (inaudible) is that it's the kids
19 who count. I have lived most of my life (inaudible)
20 and I don't want my children to either go without the
21 knowledge (inaudible). And when I say "the knowledge"
22 of something happening negative to them.

23 I want them to know they (inaudible) the
24 political impact earlier in life than perhaps I have,
25 because of the knowledge about what diesel fuel

1 emissions mean, and the new technology and what the
2 technology can now mean.

3 I have a two-year old grandson who has Down's
4 Syndrome. He's been in the hospital several times with
5 breathing difficulties. Enough has already been
6 (inaudible) the contribution of diesel engines to
7 polluted air. (Inaudible).

8 I'm disappointed to learn that EPA has
9 delayed waiting to 2010 fully clean-up pollution trucks
10 and buses.

11 I have a son who teaches chess here in New
12 York. I wonder how many days or years (inaudible) by
13 running daily on the sidewalks of New York, and whether
14 it's been so (inaudible).

15 I have another son who works for a landscape
16 company driving trucks working with off-road diesel
17 equipment. (inaudible) but because perhaps the
18 government and business don't want to get together
19 enough to control the diesel air pollution that exists
20 on his job right now.

21 I would also ask you to ensure all these
22 vehicles are meeting the emission standards on the
23 road, and not just during the testing stage. Drivers
24 of vans and trucks are logging more miles and driving
25 hours in the highways and streets (inaudible) know that

1 his vehicle is air-conditioned (inaudible) understand
2 recent studies show that's a pollution tunnel which
3 (inaudible) even concentrates (inaudible), many of them
4 being generated by trucks and buses.

5 Some oil and industry interests are telling
6 you that (inaudible) is a good compromise, and I have
7 read (inaudible) if the higher level is permitted, this
8 kind of political compromise (inaudible) only we're
9 being fair about (inaudible) this happens and the
10 emission controls don't work, guess who's going to be
11 coming right back an additional time.

12 I watched the dance over the last couple
13 weeks at the (inaudible). I watched (inaudible) and a
14 couple of other senators following up on the actions of
15 the House (inaudible) standards for trucks -- well,
16 cost factors, heavier vehicles will mean more safety
17 factors -- it's these kinds of arguments that seem
18 utterly ridiculous that seem to carry the day
19 politically, and I urge you to maintain strong, high,
20 and fast standards.

21 I personally live in Capital Hill. I'm
22 curious as an economic stakeholder, too, what's going
23 to happen to the central bus route once the knowledge
24 of diesel (inaudible) get around that is jeopardizing
25 people. And I would urge you to increase the use of

1 diesel alternatives in addition to cleaner diesel.

2 There are centers in Washington that are
3 really working with our metropolitan transportation
4 agencies and agencies cities in Europe and Asia for
5 cleaner air for some years now. Isn't it time that
6 (inaudible) globalization we have quality air that
7 (inaudible) newer, cleaner trucks should be required to
8 meet the emission standards. It's happening
9 elsewhere. It's a political role as much as
10 technologic.

11 Finally, it's a patriotic time of the
12 summer. Fourth of parade season, maybe not so much in
13 the streets of New York, but a lot of places across the
14 country. I think of the image of kids sitting for
15 hours watching great floats crawling by -- you got
16 diesel engines, diesel trucks floats -- wouldn't it be
17 nice to know that it's safe for kids to be in places
18 where trucks, floats, parades, your own school buses
19 are not jeopardizing their life? We must do the
20 politically courageous thing. I think we can.

21 I really congratulate you on putting out this
22 rulemaking, and hope the standards can be put on a much
23 faster timeline that is laid out right now.

24 MR. FRANCE: Thank you very much, and thank
25 you for sticking around today. The next speaker is

1 Jason Babbie.

2 MR. JASON BABBIE: Good evening. I'm Jason
3 K. Babbie, Environmental Advocates' Air & Energy
4 Program director. Environmental Advocates is a
5 statewide, broad-based organization that has worked to
6 defend New York's land, air, water, wildlife and the
7 public's health for over thirty years.

8 The final outcome of this rulemaking process
9 will affect millions of New Yorkers. So I implore you
10 to stay strong on the emissions standards for nitrogen
11 oxides, particulate matter and nonmethane hydrocarbons,
12 and sulfur standards for diesel fuel. This stringent,
13 dual system approach to clean up heavy-duty diesel
14 vehicles is the right approach. A cleaner fuel means
15 fewer emissions, will help us all breathe a lot easier.

16 Diesel emissions negatively impact the
17 environment and public health in many ways. Diesel
18 tailpipes, which largely consist of trucks and buses,
19 are single largest source of particulate matter at
20 sidewalk level in Manhattan. That means millions of
21 New Yorker are being subject to multiple known and
22 probable human carcinogens and respiratory irritants
23 every time diesel truck or bus drives by them. Diesel
24 tailpipes are also a major source of nitrogen oxides,
25 which cause ozone-smog all across the state.

1 Children are disproportionately affected by
2 bad air quality. Children take in twice as much air
3 per pound of body weight as adults. They also spend a
4 lot more time in outside activities, partake in more
5 rigorous activities, and are less likely to curtail
6 their activity when experiencing difficulty breathing.
7 Asthma is the number one chronic reason for school
8 absenteeism, which will affect children for years to
9 come. In essence, the emissions that cause ozone-smog
10 are robbing children of their education and comprising
11 their health.

12 In addition to children, the negative impacts
13 of poor air quality disproportionately affect those
14 with existing respiratory ailments; the elderly,
15 because they often have existing respiratory problems;
16 and those living or working near major diesel exhaust
17 sources like bus depots.

18 New York is breaking records this year
19 because of those ozone-smog. Unfortunately, they are
20 the wrong markers to be breaking. Already this year
21 New York has exceeded the US Environmental Protection
22 Agency's eight-hour health based standards multiple
23 times. Virtually every time the weather conditions
24 were right, nitrogen oxides and volatile organic
25 compounds combined with the heat and sunlight to form

1 ozone-smog. We have already had days when almost every
2 monitor in the state exceeded the 85 parts per billion
3 standard. This is alarming to say the least, and is
4 yet another example of why updated and more stringent
5 nitrogen oxides emission standards on diesel vehicles
6 and sulfur standards on diesel fuel are necessary.

7 In the report "Out of Breath: Health Effects
8 from Ozone in the Eastern United States" Abt Associates
9 used epidemiological studies in 1997 air quality data
10 to determine the health impacts of ozone on a
11 county-by-county basis. The report attributed over
12 510,000 asthma attacks, 12,300 emergency room visits,
13 and 4,100 hospital admissions to ozone-smog in New York
14 State during the ozone season in 1997. What that means
15 is that too many lives were negatively affected by
16 ozone-smog.

17 New York has some of the highest asthma rates
18 in the country. Particularly in northern Manhattan and
19 the south Bronx, where there are a disproportionate
20 number of diesel bus depots and truck routes, and the
21 residents have limited access to health care. Often,
22 residents in these communities are forced to use the
23 emergency room to treat asthma, which is the most
24 costly and least effective form of treatment.

25 The toxic chemicals that make up particulate

1 matter are of particular concern. According to the US
2 EPA, the California EPA, and the National Institute of
3 Occupational Safety and Health, diesel exhaust contains
4 over forty known and probable human carcinogens. In
5 fact, a number of studies show that diesel exhaust
6 causes cancer. The chemicals in diesel exhaust also
7 negatively affect the immune system, hormone function,
8 and the reproductive system. They also cause disorders
9 of the blood and blood forming tissue.

10 Up until recently, I lived six blocks from a
11 bus depot in West Harlem and remember the soot that
12 covered my windowsill, floor, and bed. I could only
13 imagine what I was breathing, considering the smaller
14 invisible particulates are even more dangerous than the
15 coarse particulates. Now, I was able to buy an air
16 filter for my room, but that was not an option for most
17 of the other residents in my neighborhood. I should
18 not have had to spend close to \$200 to filter my air to
19 protect my health, but at least I could. What about
20 all the families that cannot afford the same luxury?
21 My point is that the air should be clean enough to
22 breath without an air filter. Hopefully these new
23 standards will get us a great deal closer to healthy
24 air for New York City and the nation.

25 It is imperative that the EPA does not back

1 down from the 15 parts per million sulfur standard for
2 diesel fuel. A low sulfur level in diesel fuel is
3 necessary for pollution control technologies to work
4 effectively. Sulfur clogs the devices or renders them
5 useless, which exposes more people to dirty diesel
6 fumes.

7 Industry has continually forecasted their
8 demise or outrageous cost when faced with regulations
9 or legislation that required them to change procedure
10 or switch to a new technology. Their Chicken Little
11 syndrome is tiresome and insulting. Time and time
12 again industries have met the required standards, and
13 at a fraction of the projected costs. Besides, the
14 public's health and environment are worth an additional
15 3 cents a gallon for diesel fuel.

16 I applaud the EPA for addressing diesel
17 emission and diesel fuel standards. However, I have
18 two recommendations to improve the proposed
19 regulations, better protecting public health and the
20 environment. One, all components of your program
21 should be fully implemented by 2007. Two, more work
22 should be done to promote the use of alternative fuel
23 vehicles.

24 The New York Metropolitan Area has a severe
25 air quality problem. As I am sure you are aware, this

1 area is classified as a "severe non-attainment area" by
2 the EPA, and has never met the Clean Air Act's
3 health-based air quality standards. Pushing the
4 nitrogen oxides full implementation out until 2010 does
5 little to help New York City and the surrounding
6 suburbs with their ozone-smog problem. Eliminating or
7 shortening the phase-in period is necessary for
8 cleaning up the New York Metropolitan Area's air.

9 Encouraging the switch to alternative fuel
10 vehicles will further improve air quality. Long
11 Island's bus fleet is scheduled to be diesel free by
12 2005. The number of compressed natural gas powered
13 vehicles in New York City's bus fleet is growing, but
14 not as quickly as the MTA originally projected. The
15 MTA has moved away from purchasing CNG power buses of
16 favor of hybrid diesel electric buses, which is much
17 less desirable. The toxic emissions associated with
18 diesel makes it an undesirable fuel. EPA encouraging
19 the state and local agencies to purchase non-diesel
20 powered buses and trucks would improve the air quality
21 even more.

22 Thank you for this opportunity to testify,
23 and thank you for addressing diesel vehicle emissions
24 and diesel fuel.

25 MR. FRANCE: Thank you. Next is Lisa

1 Schreibman.

2 MS. LISA SCHREIBMAN: I was trying
3 desperately to think of anything original, and the only
4 thing original that I came up with I'm afraid somebody
5 might have already explained in the four hours or so I
6 wasn't here. And now you'll all say, oh, are they
7 going to make us do make us do it again?

8 Allow me to sort of explain: When I was
9 field organizing a couple of jobs ago, I used to have
10 to explain the difference between "ozone" and "ozone,"
11 because after all, this would cause confusion. Because
12 on the one hand, everyone's talking about saving the
13 ozone and on the other hand, they're talking about
14 getting rid of it. Actually it's kind of a nice
15 exercise, but maybe it would have been better about two
16 hours ago, because the way you explain it is good ozone
17 (indicating up) and bad ozone is (indicating down) then
18 making them stand up and do it. (Demonstrating.)

19 But I'm afraid somebody might have taught 800
20 people this routine already. So I make my --

21 My name is Lisa Schreibman, I'm the New York
22 City Coordinator for the Tri-State Transportation
23 Campaign, a consortium of thirteen of the region's
24 leading environmental, planning, and transit advocacy
25 groups that work to achieve sustainable transportation

1 by reforming and redirecting transportation investment
2 patterns, many of whom have testified already today.

3 We have worked on both truck and bus
4 pollution issues as they relate to New York, New
5 Jersey, and Connecticut. Specifically, we have worked
6 to ensure that the maximum amount of freight is moved
7 by train, that the trucks that move freight run on
8 clean fuels, and that they operate in such a way as
9 causes the least harm possible to people living near
10 truck routes. We have also worked to make sure that
11 more people use buses, and that the bus emissions are
12 as low as possible.

13 Today we are here to thank the EPA for its
14 proposal to remove sulfur from diesel in order to clean
15 up the nation's trucks and buses. This rule, although
16 not eliminating all of the dangers posed by trucks and
17 buses, is the air pollution equivalent of taking
18 13 million diesel trucks off from the roads. As such,
19 it is the single most influential fuel policy now up
20 for debate.

21 Talking sulfur out of diesel, as many said
22 before me, is the equivalent of taking lead out of
23 gasoline. Pollution control devices cannot work while
24 sulfur is there, and can work when it is not. The
25 EPA's proposed rule will eliminate 97 percent of the

1 sulfur in diesel fuel by 2006, 90 percent of soot
2 particles by 2007, and 95 percent of nitrogen oxides by
3 the end of the decade.

4 New York City is a great place for your first
5 hearing on this proposal. And, in fact, we think that
6 the fact you are still here tonight, makes it the
7 perfect place. Here, like in other major cities, we
8 can see the most egregious effects of diesel pollution.
9 Half the particulate emissions in midtown comes from
10 diesel tailpipes. We live in chronically high
11 summertime smog levels smog levels. And New York State
12 is home to more than a million asthmatics, half of whom
13 are children. We have some of nation's highest asthma
14 rates and the communities that have the highest of the
15 high rates are all along the truck routes, expressways,
16 and bus depots of our cities.

17 However, the only rational way to clean up
18 the air pollution in New York city and other places
19 polluted by sources that can travel from other states
20 is with a national rule. It simply won't do to just
21 clean up the pollution in polluted areas, it would be
22 insufficient to require low-sulfur fuel only in
23 polluted areas, because if a truck was traveling
24 outside the jurisdiction and was unable to acquire the
25 proper fuel, its pollution traps would become

1 incapacitated by using just a few tanks of regular
2 diesel fuel. Thus, even in areas with low levels of
3 pollution, low-sulfur diesel fuel must be made
4 available. That is why implementing a sulfur cap
5 nationally by mid 2006 makes sense.

6 The two points poise that the opposition has
7 tried to make today is that one, they need more time;
8 and two, the proposed rule is too costly.

9 As if they haven't made it clear enough, the
10 environmental and health communities have been
11 discussing and advocating the problems of pollution
12 from fuels since the mid-1970s. The oil industry has,
13 therefore, had 20 years to voluntarily reduce sulfur in
14 its fuel, but it hasn't. It is, thus, up to the
15 government to require the changes.

16 We have already heard about this rule being
17 too costly, using some hocus-pocus math that no one
18 really understands, and drive up the prices of goods
19 beyond the prices that we are seeing today. And yet,
20 the people who have testified today have pointed out
21 that the industry earns more profits in a single
22 quarter than removing sulfur from diesel fuel will cost
23 in the next ten years. And that the costs will be
24 passed on to us, the consumers.

25 However, it is the hardest hit consumers,

1 those who are low income people, who are the hardest
2 hit by dirty air consistently, those are the ones who
3 would probably be the most impacted by cost increases
4 to consumer goods. And yet, all of the individuals who
5 came here and told you about what they want, felt that
6 the 4 cents on the gallon that it's predicted to cost
7 to clean up the air is a good set of goals. This is
8 something that they are willing to pay for. Today we
9 have heard from many low-income people that it's worth
10 the health of their children and communities.

11 In fact, we are heartend to see every type of
12 concern represented here today. From local, state, and
13 city elected officials, government agency
14 representatives, industry groups, citizen groups, and
15 individuals from the entire region are here to show
16 their support in being able to breathe the air. We
17 want to echo their applause for the EPA and for its
18 proposal, and look forward to the successful
19 finalization of this proposal by the end of the year.
20 Thank you.

21 MR. FRANCE: Thank you very much. And the
22 last speaker is Nancy Gibbs.

23 MS. NANCY GIBBS: My name is Nancy Gibbs. I
24 didn't even know you were going to have a meeting here
25 until I got a call from one of your interns. I don't

1 know how she got my name, she said I was on a list.

2 I live in the South Bronx, I've lived there
3 for over 30 years. I'm a grandmother, I'm 74-years
4 old. I'm also working as a professional occupational
5 therapist within part of the medical establishment in
6 the field of rehabilitation.

7 I speak to you in favor of your proposal.
8 The petroleum industry (inaudible) shown concern for
9 the people in our community. The use of electric and
10 (inaudible) buses is certainly a wonderful idea. I
11 don't want you to wait until 2010, I hope you don't
12 have to compromise. I hope that you will go ahead with
13 your plans and get this done. And this gentleman, I
14 overheard, said 2007. And so I've been learning just
15 since I've been in here.

16 I've tried to do a lot with the young
17 (inaudible) in their meetings. They were having a lot
18 of meetings (inaudible). I live near 180th Street in
19 the Bronx, which is a minority community. I guess I'm
20 a minority within a minority. I see people file in our
21 buses time and time again.

22 I work another job as well as working in a
23 nursing home. I work up in Riverdale, which is a very
24 (inaudible) community, full of wonderful trees and the
25 buses are always there, waiting. And they don't

1 scatter the way do on 180th Street, where all of us
2 poor people wait and get a face full of black smog.
3 And following the bus, right on the track of the bus,
4 is a big massive truck. And that happens almost every
5 day.

6 And so, as I say, I live in a poor
7 neighborhood. I'm lucky enough to live in a co-op and
8 it's a nice co-op. But a lot of people, which when
9 they ask me where I live, I say well, and I tell them.
10 And they say just exactly where is this? And I say
11 well, literally this the southeast Bronx, but it's
12 really the South Bronx. Then it's oh, you don't live
13 in Riverdale? No, no, I don't.

14 So I spoke -- I understand from the phone
15 call that I got from this lovely attorney, that she
16 wanted to hear from people that live in the South
17 Bronx. I guess she got my name because I have
18 testified several times (inaudible), and I came across
19 people who were very much against diesel fuels during
20 these sessions.

21 My particular beef was that we would stand
22 for hours. I have literally stood for an hour and a
23 half waiting for the number 36 bus. I've also seen
24 big -- and I understand from your attorney that you're
25 interested in the people from the South Bronx -- I have

1 seen four schools go up right across the street from
2 electrical power plants, and I've wondered why because
3 there that is contamination. And that's right along
4 the 36 bus line right on 190th Street. So I can't
5 figure out the thinking of the city people in doing
6 that.

7 However, there has been slight improvement in
8 the 36 bus. But low and behold, suddenly my landscape
9 which did have trees, suddenly was obliterated by
10 tremendous construction going on. In other words, our
11 community is getting full of people. And when I spoke
12 to a bus driver who picked me up from my job at
13 Riverdale, I said this bus is empty, why don't you put
14 more of your buses down in the South Bronx? He said we
15 don't have enough bus drivers. He said don't you know
16 we're recruiting? There aren't enough of them for
17 where you live. I was flabbergasted, absolutely
18 flabbergasted.

19 So I'm speaking to you mostly from a personal
20 idiom. I come as an individual. Although, I did get
21 5,000 signatures for my little thing about trying to
22 get the 36 bus (inaudible) I went around (inaudible)
23 and all of the buses up and down, and I got 5,000
24 signatures within six months.

25 So any way, getting back to about the issue

1 of contaminants. I am also not only an occupational
2 therapist, I'm also an artist. And I (inaudible) -- I
3 won't mention its name because I respect it too
4 highly -- but the area you go in there (inaudible)
5 artists using all kinds of contaminants, whether it be
6 sulphur or cobalt. And I studied at this school for
7 several years, and suddenly I found out I was getting
8 thyroid problems and I was seeing my doctor. So one of
9 the (inaudible) said about is hormonal problems, I was
10 a direct recipient of this. So I started telling my
11 study mates, please would you cut down the turpentine,
12 please cut down on some of these.

13 I also (Inaudible) and one of them, or a
14 number of them told me if I work with them, if I could
15 give them exercise. A senior citizen exercise, which
16 comprises of stretching. And most of these people have
17 pain, arthritic pain. So a couple of them came up to
18 me and they told me I suffer this pain and then I go
19 away to the country, this beautiful camp, and no more
20 pain. So that told me a lot about the Bronx, because
21 they live in the Bronx. Thank you.

22 MR. FRANCE: Thank you. Thank you all for
23 coming and being so patient. I believe that concludes
24 all the testifiers.

25 (The hearing was concluded at 8:35 p.m.)

C E R T I F I C A T E

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2
3 I, PATRICIA A. SANDS, a Shorthand Reporter and
4 Notary Public of the State of New York and New Jersey,
5 do hereby certify that the foregoing is a true and
6 accurate transcript of the testimony as taken
7 stenographically by and before me at the time, place
8 and on the date hereinbefore set forth.

9 I do further certify that I am neither of counsel
10 nor attorney for any party in this action and that I am
11 not interested in the event nor outcome of this
12 hearing.

13
14 Notary Public of the State of New York
15 Certificate No. 4974309
16 New Jersey Certificate No. 2109345

17 Dated:
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