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FEDERAL TRADE COMMISSION

PUBLIC WORKSHOP

FACTORS THAT AFFECT PRICES OF
REFINED PETROLEUM PRODUCTS

THURSDAY, AUGUST 2, 2001

9:00 A.M. TO 4:30 P.M.

FEDERAL TRADE COMMISSION
600 PENNSYLVANIA AVENUE, N.W.
ROOM 432
WASHINGTON, D.C. 20580

Reported by:

Constance Wilson, Debra Maheux and Karen Guy

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3 CHAIRMAN MURIS: Good morning and welcome to
4 the Federal Trade Commission. Today we are holding a
5 public conference on factors that affect prices of
6 refined petroleum products. As you are all aware, this
7 is a topic of immense importance to the American public
8 and to our economy. Both the level and volatility of
9 prices of these products, such as gasoline and home
10 heating oil, have resulted in increased public concern.
11 Just how these prices are set has generated much
12 discussion and debate among many and diverse groups.

13 These are issues with which we have been
14 involved as well. Recently the Commission issued a
15 report on and closed an investigation of gasoline
16 pricing in two particular geographic areas, the midwest
17 and western states. The Commission has also conducted
18 investigations of a number of recent oil industry
19 mergers and issued orders requiring substantial
20 divestitures in several cases to preserve competition.

21 Because of the importance to the American
22 economy of issues raised in our investigations, we plan
23 to broaden our focus to study in more detail the
24 central factors that can affect the level and the
25 volatility of prices in refined petroleum products

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1 throughout the United States. Today we start this
2 process.

3 We are asking for public input on issues we
4 should address at later hearings. We hope to focus in
5 a comprehensive manner on the issues of greatest
6 relevance and importance. At the later hearings, we
7 will discuss and analyze the issues in more detail.
8 The ultimate goal is to produce a report that can
9 assist in developing appropriate public policy in this
10 vital area.

11 This has been a traditional role of the Federal
12 Trade Commission. Indeed, this is just the latest in a
13 series of hearings and workshops that the Commission
14 has held in recent years. The goal of these hearings
15 has been to understand trends in the economy.

16 We work with knowledgeable people, with the
17 business community, the consumer sector, public
18 interest organizations and academics. We hope to
19 understand important issues that will have an impact on
20 the economy and on how a regulatory agency should or
21 should not deal with them.

22 These hearings are designed to help us learn
23 the issues so we can fulfill our mission both as a law
24 enforcement agency and as a body of economic experts
25 that files periodic reports on the major issues facing

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1 our country.

2 This type of activity is what Congress had in
3 mind when it established the Commission in 1914; not
4 just an agency that would enforce the law, but an
5 agency that would take a look at the law and make sure
6 that the rules we are enforcing make sense. And as I
7 have in the past, I want to commend my predecessor, Bob
8 Pitofsky, who really rejuvenated this process at the
9 FTC.

10 Over the years, the Commission has used this
11 mandate to study and report on a wide variety of issues
12 confronting government. The shape of our securities,
13 communications and agricultural laws were first forged
14 in the context of FTC investigatory hearings.

15 So, let me initiate this program by thanking
16 all of you who are here. I'd like to give special
17 thanks to all of our speakers, who are willing to lend
18 your valuable time, intelligence and experience to this
19 project. I also want to thank the many FTC staff who
20 contributed in putting this program together,
21 especially our moderator, Susan DeSanti, who has become
22 an expert in coordinating these events.

23 And just to add a personal note, we had a
24 meeting in my office about five weeks ago when I
25 suggested that we have this event starting today, and I

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1 think it's fair to say I was the only one who had
2 confidence that they could pull it off, and I'm very
3 pleased that everyone's worked very hard to make this
4 event happen today.

5 I look forward to today's program and the
6 programs that follow, and again, I especially want to
7 thank the FTC staff and our moderator, Susan DeSanti,
8 who has become an expert in these events. We have much
9 to learn, we have a stellar group of speakers, and I
10 look forward to the program.

11 Thank you very much.

12 (Applause.)

13 MS. DeSANTI: Thank you very much, Mr.
14 Chairman.

15 I'm Susan DeSanti, Deputy General Counsel for
16 Policy Studies, and let me start also by thanking all
17 of the outstanding speakers who have agreed to come and
18 share their learning and experience with us and the
19 many outstanding FTC staff members who worked so hard
20 to make this initial public conference possible.

21 We're also grateful to have Commissioners in
22 the audience today, and I think that Commissioners will
23 be joining us from time to time today as their
24 schedules permit.

25 We have a very full agenda, so let me briefly

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1 describe how the morning and afternoon sessions will
2 work, and then we'll get started.

3 In both the morning and the afternoon, we're
4 going to begin with some short overview presentations
5 to lay the foundation for the discussion to follow.
6 Then we will have panel discussions that build on and
7 expand those presentations into additional areas.

8 Now, to begin the conference, we are honored to
9 have four very distinguished speakers who I will
10 introduce in turn.

1 anyone who's been following the events in California.
2 We are very grateful that he has made time in his
3 schedule to come and join us from California today.

4 Tom?

5 MR. GREENE: Thank you.

6 Mr. Chairman, Susan, colleagues, thank you very
7 much. It will come as no surprise to you that
8 petroleum products issues are of enormous importance to
9 every state in the union and, of course, to every
10 consumer in the United States. This has been reflected
11 I think in our allocation of our relatively scarce
12 resources at the state level through a variety of
13 ongoing investigations and major pieces of litigation.

14 As we speak, for example, the state of Hawaii
15 is investigating a price-fixing investigation --
16 price-fixing case in the United States District Court
17 in Hawaii. Both the states of Alaska and California
18 are engaged in major investigations. In the past, we
19 have been involved certainly in California and with our
20 sister states in the petroleum products, MDL
21 litigation, as well as the Long Beach litigation, which
22 dealt with other aspects of the industry.

23 We've also been I think good partners with the
24 Federal Trade Commission in its work in reviewing major
25 mergers of the last few years. Indeed, we think this

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1 has been one of the shining examples of federal-state
2 cooperation. We have worked closely with the Federal
3 Trade Commission on the Exxon-Mobil transaction, which
4 yielded divestitures of hundreds of retail stations in
5 the northeast and a major refinery in California; the
6 BP-ARCO matter was a case brought by the Federal Trade
7 Commission in the United States District Court in San
8 Francisco, a parallel filing by the states of
9 California, Oregon and Washington, and that case led to
10 divestitures of all the ARCO's assets in Alaska.

11 All of those results are very positive, and the
12 working relationship between the various states
13 involved in these matters and the FTC has been really
14 an example of how to do this well. That's not to say
15 that we have to rely on this. This is a relationship
16 that needs constant tending, particularly at the
17 day-to-day level of investigations, to make sure that
18 the flow of information continues and that we continue
19 to work in a cooperative and cost-effective manner to
20 serve the public and more generally.

21 With this background, however, we do have a
22 variety of perspectives, and let me try and share them
23 with you. The first and perhaps most striking is the
24 increased concentration in this industry. This
25 industry is concentrating as quickly as any in the

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1 world. It obviously is an industry of obvious
2 importance, but I think the first thing that we all
3 need to be aware of is the concentration has increased,
4 and this has potentially significant implications.

5 Indeed, when Chairman Pitofsky closed the
6 midwest investigation, you will recall that the report
7 itself speaks to a refiner who basically withheld
8 product from the market in order to increase prices.
9 It may not have been a Section 1 problem, but it
10 certainly raises some fundamental issues about
11 increasing market power in this arena.

12 Secondly, retail competition is something that
13 we all need to be very intensely interested in. What
14 has happened historically is that we've looked largely
15 at the two tiers and have been broad gauge measures of
16 competition among major refiners and major companies.
17 It is very important to realize that the cockpit of
18 competition, if you will, is quite local. The
19 industry, at least in my state, has moved very rapidly
20 to zone pricing in which micro-zones, if you will, are
21 created, which may be an intersection in a major city,
22 an off-ramp on a major freeway or, in most cases, zones
23 which are a few miles square.

24 The implication of that is that unless there's
25 competition in that zone, there won't be competition

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1 for the consumers who go into those zones if they rely
2 on that intersection as the place where they usually
3 get their gasoline.

4 One further thing to be aware of is that the
5 industry appears to be moving in a direction of retail
6 back pricing; that is, as costs decline, prices will
7 stay relatively high until competition breaks out zone
8 by zone. This has I think significant implications for
9 how we think about these transactions and where the
10 action ultimately is in this industry.

11 The next thing to be aware of is largely
12 consistent with broader patterns in American industry.
13 Inventories have declined dramatically. My state may
14 be as good an example as others. In the 1990s,
15 reserves and inventories have declined roughly 20-plus
16 percent.

17 One implication of this is that if there's a
18 refinery fire or an outage, there simply is not a
19 cushion to cover the outage, and so you see price
20 spikes, once they start, they escalate very, very
21 quickly and quite dramatically. So, the combination of
22 price spikes, which is increasingly a reality in this
23 market, really is joined conceptually with declining
24 inventories, which have good reasons to be created or
25 to be diminished, and the implications for America's

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1 petroleum consumers is quite dramatic.

2 Another thing to be aware of, and I must admit
3 this is really colored by my recent experience in the
4 electricity industry and taking a look there, is that I
5 don't think as antitrust lawyers we can really
6 appreciate the implications of inelastic demand curves.
7 One implication of that, and one I want to highlight to
8 you, is that if the demand curve is relatively
9 inelastic, a relatively small diminishment in supply
10 can have out-sized pricing effects.

11 We have certainly seen that in California's
12 electricity market, so that suggests that even small
13 players may have significant market power, and again,
14 this may call into question some of our traditional HHI
15 screens and things of that nature, but the power of
16 individual marketers to spike the price or increase the
17 price really is in large part a function of the shape
18 of those demand curves.

19 Something that, again, is colored to some
20 degree by my recent experience working with the
21 electricity industry is something that I think we just
22 need to be generally aware of, and that is a change in
23 the way the cutting-edge thinkers in the business
24 community are thinking about their own businesses. And
25 that is a change from what is the traditional notion

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1 that as you are developing strategy, investment
2 strategy, you want to cover your costs, you have
3 certain profits goals, and you try to meet them.

4 Increasingly, industries are looking at
5 physical assets as equivalent to financial options.
6 One implication of that is that you want the option to
7 make as much money as possible. In the electricity
8 industry, this suggests moving from plants which are
9 relatively more efficient to plants that would chase a
10 price spike much more effectively.

11 Once you begin thinking of physical assets as
12 options, how the industry may work, whether it now
13 makes sense for them to chase a price spike and
14 whether, indeed, this facilitates thinking that price
15 spikes are actually in the interests of certain
16 industry participants and what effect that might have,
17 all are things I think we do need to think about.

18 So, in summary, I think a handful of issues are
19 of utmost importance here. The first is to maximize,
20 to the extent possible, the ongoing partnership between
21 federal and state agencies in reviewing this important
22 industry. Secondly, I do think we need to be very
23 cognizant of the issue of increased concentration. I
24 think we need to be particularly sensitive to the local
25 nature of competition in this industry. I think we

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1 also need to be watchful about options approaches and
2 what implications that might have both for this
3 industry and for our overall thinking as antitrust
4 lawyers.

5 And on those notes, I turn it back to Susan.

6 (Applause.)

7 MS. DeSANTI: Thank you very much, Tom.

8 You've already given us a lot to think about.

9 Our next speaker truly fits in the category of
10 someone who needs no introduction. It is simply
11 impossible to be involved with competition and consumer
12 protection issues and not understand the impact that
13 the Honorable Howard Metzenbaum has had on consumer
14 issues, first as a Senator from the State of Ohio for
15 19 years, and now as Chairman of the Consumer
16 Federation of America.

17 While in the Senate, he chaired the antitrust,
18 labor, energy regulation and conservation
19 subcommittees. At the CFA, which is a nationwide
20 organization of approximately 285 pro-consumer groups,
21 he is a well-known and frequent public voice on many of
22 the most important m A6.taverin -3 r . t bion0 y ri

1 MR. METZENBAUM: Thank you very much, Chairman.

2 I appear here this morning to commend the FTC
3 and Chairman Muris for holding one of its first public
4 forums in the new administration on the extremely
5 important issue of gasoline pricing. I hope the FTC
6 will be a leader in the administration in aggressively
7 pursuing policies and investigations to increase
8 competition and keep gasoline affordable for the
9 consumers, for obviously the most vulnerable, the low
10 and middle income families.

11 Consumer access to affordable gasoline prices
12 has long been a major concern of mine, as it has been
13 for the Consumer Federation of America. As chairman of
14 the Senate Antitrust Subcommittee and since, I have
15 spent a good part of my career working to prevent
16 antitrust abuses and to improve competition in a number
17 of industries. The lack of meaningful competition in
18 the oil industry gives me and other consumer advocates
19 great cause for concern.

20 The Consumer Federation's most recent report by
21 Dr. Mark Cooper, whom you will hear from later, comes
22 to a surprising conclusion. His study shows that
23 recent gasoline price hikes are caused mainly by
24 growing industry concentration and market manipulation,
25 not by OPEC policies or other international factors.

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1 I say that this is surprising because I think
2 that many Americans have concluded that the main reason
3 they are paying more at the pump is directly related to
4 OPEC having increased crude oil prices, but the fact is
5 it is the refiners and the marketers that are most
6 responsible for price increases. The refiner-marketer
7 share of the pump price doubled in 2000 and doubled
8 again in the first five months of 2001, costing
9 consumers more than \$11 billion just since January.

10 Despite modest recent price decreases, gasoline
11 prices are still almost 20 cents per gallon higher than
12 two years ago. These price spirals have hit Americans
13 hard, very hard, and those who have been hurt most are
14 the lower and moderate income consumers.

15 It costs households an average of more than
16 \$150 a year. That may not sound like much to a lot of
17 people, but households with incomes below \$10,000 that
18 own motor vehicles spend more than 10 percent of their
19 income on gasoline, compared with the less than 2
20 percent of income spent by those earning more than
21 \$75,000 a year. And rural households also pay more
22 proportionately.

23 These price increases are felt deeply by
24 consumers because gasoline is not a luxury; it is an
25 essential commodity. It is an absolute necessity for

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1 daily life for millions of Americans, probably the vast
2 majority of Americans.

3 The result of these price increases has been
4 windfall industry profits. Last year, the biggest five
5 oil companies enjoyed after-tax profits of \$40 billion,
6 which is two and a half times their \$16 billion in
7 1999. Fortune Magazine reports that the return on
8 equity for the oil industry in 2000 was an astonishing
9 25 percent, which is double the average for the
10 industry and about 50 percent more than other large
11 corporations.

12 In the first quarter of 2001 alone, profits
13 increased by nearly 75 percent. In fact, profits are
14 so high that the oil industry literally, actually,
15

1 sitting on more than \$11 billion in the bank. That
2 ain't hay. That's a lot of money for a company to have
3 accumulated on the backs of the American consumer.

4 The facts show that oil companies are
5 manipulating the market and profiteering. Even Pat
6 Robertson, with whom I usually have nothing in common
7 politically, has charged that oil companies are
8 stifling competition. As you may have seen in the
9 papers, he accused big oil companies in California of
10 thwarting his attempts to open a refinery. Growing
11 industry concentration has allowed refiners and
12 marketers to reduce refining and storage capacity and
13 to withhold supplies in individual markets.

14 For example, the FTC investigation last fall
15 found that several companies, including Marathon Oil
16 and BP-AMOCO-ARCO, had taken actions to withhold or
17 divert oil in order to keep supply tight and prices
18 high.

19 Between 1994 and 1999, 10 percent of the
20 nation's refineries and branded gasoline stations were
21 closed. The nation's petroleum storage facilities were
22 reduced by nearly 15 percent. The industry
23 systematically lowered stocks on hand from about a
24 one-week supply in the eighties to a one or two-day
25 supply in the late nineties.

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1 A waive of mergers drove this consolidation and
2 concentration. Every time another merger occurs, the
3 potential for real competition decreases. By the
4 standards of the Reagan Administration's Justice
5 Department, four of the five regional refinery markets
6 have reached levels of concentration that are of
7 concern.

8 I used to have some involvement in the oil
9 industry. I used to be a distributors of Phillips
10 Company gasoline in the Cleveland area. That company,
11 which was big at the time, is now Phillips-Pasco.
12 Sohio, AMOCO, ARCO, Exxon, Mobil, Chevron and Texaco
13 are all also part of merged companies today.

14 The concentration really shows up in the
15 regional markets, where the largest four companies
16 account for at least one-half and as much as
17 three-quarters of the output of gasoline. A similar
18 trend has occurred at the retail level with gasoline
19 stations. What this means is that individual companies
20 acting unilaterally can manipulate refining and storage
21 capacity or exploit market disruptions and drive prices
22 up. That was a major conclusion of the earlier FTC
23 report. Although this type of anticompetitive behavior
24 does not involve collusion, the impact on the consumer
25 is the same; higher prices for the consumer.

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1 What are the solutions? Overall, the
2 administration and Congress should focus their energy
3 policy on increasing competition, expanding refinery
4 and storage capacity and boosting the fuel efficiency
5 of motor vehicles. The Department of Justice should
6 stop any further mergers. The Department of Justice
7 should also investigate and discourage restrictive
8 marketing practices, such as zonal pricing and
9 franchise restrictions and acquiring supply.

10 Federal and state officials should crack down
11 on any company that withholds oil or gasoline from the
12 market. A joint federal-state task force should be
13 created to track and prosecute anticompetitive behavior
14 in the oil industry, and the administration should
15 propose legislation to put an end to the kind of market
16 manipulation that I have described.

17 We also need a windfall profits tax on
18 companies that gouge the market. Finally, we need to
19 provide better energy assistance to low-income
20 households, such as direct energy assistance for
21 transportation costs. Energy assistance programs
22 should also be directly indexed to energy prices.

23 In conclusion, a one-sided plan that focuses
24 almost entirely on producing more energy, as the
25 President has proposed, just won't work. It's not

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1 realistic. You've got to look at supply and demand
2 and, in particular, pro-consumer competition. We've
3 also got to look at government policies and business
4 practices by the oil industry. For example, the
5 Government did not close a large number of refineries
6 over the last decade leading to tight oil supplies; the
7 oil industry did. We can make gasoline prices
8 affordable without holding back important environmental
9 laws, like the Clean Air Act.

10 We at the Consumer Federation and I personally
11 urge the FTC to be on the leading edge of this issue.
12 Expose market manipulation. Condemn antitrust
13 practices. Propose reforms. And help consumers get a
14 fair shake at the gas pump.

15 Thank you, Chairman .

16 (Applause.)

17 MS. DeSANTI: Thank you.

18 John Felmy from the American Petroleum
19 Institute, API, will be our next speaker. He is chief
20 economist and director of API's Policy Analysis and
21 Statistics Department. His department is responsible
22 for all statistical publications and economic analysis
23 of API.

24 He brings over 20 years of experience in
25 energy, economic and environmental analysis to the

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1 discussion today, and we are fortunate indeed that he
2 has agreed to share his expertise and analysis with us.

3 John?

4 MR. FELMY: Thank you.

5 Mr. Chairman and members of the Commission, I
6 am John Felmy, chief economist and director of policy
7 analysis and statistics of the American Petroleum
8 Institute, a national trade association representing
9 more than 400 companies in all sectors of the U.S. oil
10 and natural gas industry.

11 I would like to thank the Commission for the
12 opportunity to present our views on what happened to
13 the prices of refined petroleum products over the last
14 two years. I will review what led to these problems
15 and explain what the industry did to make sure gasoline
16 got to every family who needed it during the 2001
17 summer driving season. Then I will discuss the huge
18 challenges we face and suggest actions that need to be
19 taken to avoid the turmoil we have experienced over the
20 past two years.

21 Right out of the block, however, I would like
22 to say that gasoline prices shot up dramatically last
23 March because of supply and demand; no more, no less.
24 For a variety of reasons, there were lower than usual

1 that was true because we had a colder winter than most
2 recent winters. That meant refineries supplied large
3 amounts of heating fuel to keep American families warm.
4 And if refineries are producing large amounts of
5 heating oil, they are producing less gasoline. You can
6 only squeeze so much out of any one barrel of crude
7 oil.

8 Meanwhile, the decline in gasoline production
9 was accompanied by a drop in imports of gasoline and a
10 2 percent increase in demand. Taken together, those
11 are the immediate causes for the price spikes earlier
12 this year.

13 From the broader perspective, I will describe
14 the energy situation two decades ago when we
15 experienced our last major price spike. In that era,
16 we paid even more for petroleum products when measured
17 in today's dollars than we do now. The average price
18 of a gallon of gasoline in 1981 was \$2.64, and the
19 price of a barrel of crude oil was \$69.

20 In the same year, we produced 45 percent more
21 petroleum and consumed 20 percent less petroleum than
22 we do today. As a result, the U.S. imported only 36
23 percent of the petroleum compared to 60 percent we now
24 get from other producing countries.

25 Refinery capacity was over 2 million barrels a

1 day higher. There were 315 U.S. refineries, and
2 capacity utilization was only 69 percent compared to
3 the current 93 percent. Since that time, more than
4 half of the refineries have shut down, but surviving
5 refineries are much bigger.

6 Why have things changed in the industry so
7 much? The impact of what happened in the late
8 seventies and early 1980s cannot be overstated. Higher
9 prices of the time, a deep recession and a steep
10 decline in consumption of petroleum products brought
11 about major changes. Between 1978 and 1983, for
12 example, petroleum consumption declined by 19 percent
13 to 1.2 million barrels per day. This decline led to a
14 severe recession in the industry, thousands of workers
15 were laid off, and many expansion projects were
16 cancelled.

17 Another factor that had a big impact was the
18 windfall profits tax of 1980. That drained \$73 billion
19 that otherwise would have been spent on new
20 exploration, refining or marketing. Huge investments
21 required for environmental controls successfully
22 reduced emissions from all facilities but also sharply
23 cut profits in the industry. In the 1990s alone, the
24 industry spent \$90 billion on environmental
25 investments. The industry spent almost \$2 billion

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1 alone on the upgrading of underground storage tanks.
2 These investments were never recovered, and between
3 1981 and 1998, the rate of return in the refinery
4 sector was just 4 percent.

5 Because of these regulatory costs, dozens of
6 refineries and storage facilities were closed and
7 thousands of gasoline stations went out of business.
8 This low rate of return forced companies to do
9 everything they could to become more efficient. It

1 percent lower than it was in 1981. Despite this good
2 news, we still have a petroleum supply system that is
3 straining to meet consumer needs. Since 1985, demand
4 for petroleum products has exceeded the refinery
5 capacity, even though refineries are bigger and more
6 efficient than ever. Storage facilities for crude oil
7 and refined products continue to shrink due to
8 regulations.

9 We now import 2.5 million barrels a day of
10 refined petroleum products each day, and that
11 represents about 10 percent of demand, and according to
12 the Department of Energy's Energy Information
13 Administration, these imports are predicted to grow by
14 140 percent over the next 20 years. This would not be
15 a concern except that other countries acquire different
16 gasoline recipes than we do in the United States.

17 On top of that, different U.S. jurisdictions --
18 federal, state and local -- require different types of
19 fuel to meet their own environmental needs. The
20 existing refinery, pipeline and terminal system must
21 supply 16 different types of gasoline. These boutique
22 fuels have hamstrung the delivery system, increasing
23 the possibility that any small change in demand or
24 interruption in supply will set off another explosion
25 of price increases like those we have seen over the

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1 last two years.

2 And the situation could get much worse if still
3 other new regulations are not carefully implemented.
4 New rules that lower sulfur content in gasoline and
5 diesel fuel will limit the availability of imported
6 fuel, because most foreign refiners do not yet produce
7 the kind of low-sulfur fuel that will be required in
8 the U.S.

9 All this means is that we have reached an
10 important crossroads in our ability to supply American
11 consumers with the fuels they need. Two decades of
12 regulation, no matter how well intentioned, have put a
13 tremendous strain on the system. The price spikes for
14 heating oil and gasoline over the last two years are
15 but manifestations of the underlying problems that we
16 face in supplying consumers.

17 We are now lurching from season to season,
18 unable to build up sufficient inventories to provide a
19 comfortable supply buffer of either gasoline or heating
20 oil for the coming season. The price spikes that
21 occurred for heating oil and gasoline were driven by
22 the interplay between supply and demand for these
23 fuels. Our experience with these spikes reveals that
24 markets for petroleum work.

25 Sharp increases in gasoline prices are caused

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1 by shifts in supply and demand, partially triggered by
2 unwise regulatory policies and limited refinery
3 capacity. In the spring of 2000, a variety of supply
4 limitations and demand growth drove prices up, and
5 then, as markets worked and more supplies rushed in to
6 meet demand in the midwest, prices fell.

7 This year's sharp increase in gasoline prices
8 were again due to supply and demand factors. We
9 experienced a much colder winter. November and
10 December were the two coldest Novembers and Decembers
11 on record. As a consequence, our refiners supplied
12 large amounts of heating fuel, and because natural gas
13 prices were high, utilities needed larger amounts of
14 residual fuel to make electricity.

15 Even though the refinery utilization was 2.7
16 percent above the previous year and had high levels for
17 the season, gasoline production fell by 2 percent over
18 the previous year. With the end of the heating season
19 and the fall of natural gas prices, gasoline production
20 expanded greatly. The refinery system set records for
21 gasoline production for 13 straight weeks. Both May
22 and June were record months for gasoline production, as
23 was the entire quarter.

24 In addition, imports of gasoline increased
25 dramatically as prices rose. In recent weeks, the high

1 prices and slowing economy have driven down demand. As
2 a result, prices have plummeted. In the spring and
3 early summer, prices increased by 30 cents over a
4 45-day period and declined by more than they rose over
5 the next 60 days.

6 Let me close with a plea or a call for adoption
7 of a comprehensive energy policy. Prices of gasoline,
8 natural gas and electricity have declined over the past
9 two months, but we should not be lulled into
10 complacency. No sane homeowner would quit repairing a
11 leaky roof simply because it stopped raining.
12 Likewise, it would be foolish for our nation and its
13 leaders to forego seeking long-term solutions to our
14 increasing energy needs simply because gasoline prices
15 have gone down.

16 While the gasoline situation has improved, we
17 are already preparing for the next season. Refineries
18 are operating at a very high level and will require
19 maintenance for safety and environmental investments.
20 We have little breathing room to prepare for the
21 heating season. Inventories of heating oil are about
22 11 percent below average.

23 While prices have declined, we still face the
24 same challenges we faced last winter and spring.
25 Refinery capacity is less than our demand for petroleum

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1 products. The Department of Energy says we will need
2 30 percent more energy over the next 20 years. To meet
3 that demand, we will need 33 percent more petroleum or
4 about 6 million barrels per day. This is a staggering
5 amount equal to 90 billion gallons per year.

6 To supply this to consumers, we will need more
7 refinery capacity, more pipeline and terminal capacity,
8 more shipping capacity and more storage facilities. We
9 must enact a comprehensive energy policy that
10 adequately promotes cost-effective energy efficiency
11 and conservation, realistic amounts of renewable energy
12 and more supplies of oil, coal, natural gas and nuclear
13 energy.

14 In addition, regulations need to be streamlined
15 to get supplies to consumers more cheaply. Otherwise,
16 we will be doomed to more frequent and more severe
17 energy disruptions than we have endured in recent
18 years.

19 And with that, Mr. Chairman, I will conclude my
20 testimony.

21 (Applause.)

22 MS. DeSANTI: Thank you very much.

23 Our final speaker in this opening session is
24 Phil Verleger, a renowned economist and consultant who
25 also brings a wealth of experience and knowledge to

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1 this discussion. Phil has been contributing
2 forward-thinking ideas to the discussion of energy
3 issues for many years in the context of government
4 service, academia and consulting, most recently as
5 president of PKVerleger, LLC, and senior adviser to the
6 Brattle Group. We very much appreciate he has come to
7 join us today, and we look forward to hearing his
8 thoughts.

9 And we look forward to having the technical
10 assistance cooperate with us, as well.

11 MR. VERLEGER: Let me start. Thank you very
12 much. It's a pleasure to be back in Washington. As
13 some of you know, I spent 25 years living here. As you
14 can see now, I split my time between Newport Beach and
15 Aspen, Colorado, and so it's a pleasure to be back in
16 Washington in August for a day.

17 Listening to the first three presentations, I
18 realized that Tom Greene, who I became friends with
19 working on ^ Bill Macheir's task force, he and I were
20 sort of the book ends between two views of the oil
21 industry, and if I can make the technology work, I'm
22 going to talk about the dynamics of petroleum price
23 setting, and I will start by talking really about the
24 role of the FTC.

25 I've never appeared here before, I've advised

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1 some people, but one can really go and ask whether some
2 of the price increases right now occurred because of
3 decreased pump competition, which implies the FTC
4 failed in its purview; whether they're due to
5 environmental regulations, as we heard just a minute
6 ago; whether the Jones Act and other energy problems,
7 due to policy, have created troubles; and if I use the
8 Jones Act, I guess -- I'm trying to write a book right
9 now on the energy issue, and the title of it is really
10 Made in America, because our energy crisis right now is
11 entirely made here at home. And then inventory
12 dynamics, which really sets price -- this is what I
13 spent the last ten years studying -- and then an OPEC
14 conspiracy.

15 Let me start with the traditional antitrust
16 regulation of the petroleum industry. Typically, if
17 you look at the history of the way the FTC has reviewed
18 and the Justice Department, they have focused on
19 exploration and production, refining, terminals and
20 marketing. If you look at the last six mergers that
21 have been reviewed over the last seven or eight years,
22 starting with the Texaco-Shell joint venture and
23 working up now to the Valero-UDS proposal.

24 Some of these issues are important today; some
25 of these issues are much less important. The

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1 exploration and production has been almost unimportant
2 with the exception of the West Coast, and there,
3 because we have a limited number of suppliers, because
4 we have a limited number of buyers, and we can't export
5 Alaskan crude oil, we have a classic oligopoly, one of
6 the only oligopolies in the market.

7 Any merger, any transaction changes the price
8 dynamics, and one company has been very public recently
9 saying if a merger goes through, they will use that to
10 bring down crude prices.

11 Refining is a different issue, and here I want
12 to spend some time. Refining mergers have affected
13 markets but not in the way the FTC would have
14 predicted, in part because refining is a very
15 capital-intensive -- as Bob Slaughter will tell you --
16 low-return business.

17 Environmental regulations in terms of the
18 product quality alone, leaving asides emissions from
19 refineries, will require refiners to spend probably
20 more than \$25 billion over the next five to six years.
21 And mandated divestitures, together with voluntary
22 divestitures, have forced the transfer of assets from
23 well-capitalized firms -- and let me take the word
24 "forced" out; "caused," because in many cases it's been
25 self-divesting -- well-capitalized firms to

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1 under-capitalized firms.

2 Stringent environmental regulations make it
3 harder to import products from abroad, as John Felmy
4 suggested. As a matter of fact, we really are -- if we
5 did, through tariffs, what we have done through
6 environmental regulations, the WTO would slap huge fees
7 on the United States. The consequence is going to be a
8 reduced supply of product at higher prices.

9 Now, this trend could be modified or moderated
10 I think if antitrust authorities were to break with
11 classic molds and instead of requiring divestitures of
12 refineries require that merging firms agree to expand
13 refining capacities and hold onto them.

14 Whoops, I did something wrong. That's because
15 I am incompetent.

16 Let me start, and I'm going to -- I'm not going
17 to go through everything, but if one looks at the
18 refining capacity in the United States, between 1990
19 and 2001, the largest integrated companies with market
20 capitalizations of over \$100 billion sold more than a
21 million and a half barrels of refining capacity, they
22 were purchased by smaller companies; the large
23 companies with market capitalization of between \$10 and
24 \$100 billion; and more importantly, the companies with
25 market capitalization from \$1 to \$10 billion.

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1 Now, it's these middle-tier companies that are
2 going to have trouble manufacturing -- I think making
3 the investments to produce the clean fuels required,
4 particularly if the economy slows over the next two to
5 three years. What you can see if you look at this in
6 percentage terms is that the integrated majors went
7 from almost 50 percent of refining capacity to 36
8 percent of refining capacity, and the smaller companies
9 -- the large companies, I'm calling them, went from 21
10 to 30, and the medium companies went from 9 to 14.

11 Now, in these calculations I'm assuming the
12 UDS-Valero proceeds and assuming the Phillips-TOSCO
13 merger proceeds.

14 One of the ways of looking at this is to look
15 at refinery debt in 1990 as a percentage of market
16 capitalization, vertical axis, versus refining capacity
17 on the horizontal axis, and what you see is the
18 companies in 1990 that owned most of the refining
19 capacity had very little debt. Update that to today,
20 and one finds just a random scatter. And if you look
21 at the two dots up there on the right-hand corner, the
22 companies owning substantial refining capacity of over
23 a million barrels a day and high debt, those companies
24 may have trouble making enough investment to produce
25 all of the clean diesel and clean gasoline, low-sulfur

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1 gasoline required by the EPA.

2 For every 100,000 barrels a day of refining
3 capacity lost in terms of these clean fuels, we mark
4 the front retail prices up by 10 cents a gallon, maybe
5 5 depending on your price elasticity demand.

6 The third -- now, I've covered E&P, focuses on
7 gasoline. The third area that hasn't come up yet is
8 terminal operations. It has been -- sometimes there's
9 been attention; sometimes there hasn't. In the case of
10 the merger between National and Marathon, there was no
11 attention, and there was a problem. This is a really
12 key issue, and just in the last week I received a paper
13 from Gilbert and Justine Hastings -- I think Justine is
14 going to be here this afternoon -- that covers this
15 thing very well following the classic Salop approach
16 where you can raise rivals' costs, and what you find is
17 if you're not careful in terms of vertically integrated
18 companies mergers on terminals, you raise prices, 3, 4,
19 5, 6 cents a gallon. This one is very important.

20 The last issue Tom Greene talked about was
21 marketing, and I think here the FTC and even I'm afraid
22 Tom's model is a bit out of date. Marketing is being
23 transformed today by the introduction of hypermarkets.
24 Hypermarkets -- the term comes from France -- are large
25 retail establishments such as WalMart and Costco that

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1 offer gasoline. That trend began in France. We're now
2 seeing it over here.

3 In San Diego, there was one Costco out of 600
4 stations, a year ago, now there are 7. Each of these
5 stations sells three to five times as much gasoline as
6 a regular station does, and the prices offered at these
7 stations can be 10 to 20 percent lower. So, last week
8 when I was in LA, there was a Costco selling gasoline

1 you rank the large companies, Exxon, Chevron and
2 others, you find that WalMart is about the third
3 largest. I think they're bigger than -- in terms of
4 market capitalization than Shell-Texaco. So, they're a
5 new form of competition. They are bringing the lower
6 prices of gasoline.

7 In my belief, if I look across these, it's
8 environmental regulations that explain much of the
9 increased price volatility. Regulations that increase
10 the number of products, creating storage problems, and
11 lead directly to the price dynamics. Requirements to
12 use ethanol and RFG may reduce the available supply of
13 gasoline due to the need to lower the RVP of a blend
14 stock. Regulations on product quality represent a
15 barrier to trade.

16 Shipping requirements, the Jones Act also
17 creates an enormous problem. We don't have enough
18 Jones Act ships. Jones Act ships must be constructed
19 in the United States, operated with U.S. seamen and not
20 receive a construction subsidy. We still have a couple
21 of World War II Jones Act ships moving back and forth
22 across and around the world. This is one other
23 problem.

24 But the key thing is inventory dynamics.
25 Simple statements about inventory dynamics and

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1 economics: Volatility and prices are low when
2 inventories are high. It doesn't matter the commodity,
3 it can be grain, it can be gasoline, it can be copper.
4 Volatility and prices are high when the inventories are
5 low.

6 Changes in regulations, mergers and OPEC
7 policies are all affecting the inventory dynamics.
8 It's an obvious reason for why firms hold additional
9 stocks. We have heard about discussions earlier about
10 companies holding it. They hold it when it's
11 profitable; they don't hold it when it's not
12 profitable. And the way they tell whether it's

1 agricultural economic literature, it hasn't come over
2 to the industrial economic literature much, is that
3 there is a strong relationship between inventories and
4 price trends. This graph shows inventories of crude in
5 the delivery market for the futures market, which is
6 pad two, the middle of the country, inventories shown
7 on the horizontal line. On the vertical line, you
8 should see the spreads between cash and -- futures and
9 cash prices. When futures are greater, that would be
10 up at the top, at \$86, you have high inventories. When
11 you have high spot prices and low inventories, you have
12 got low inventories -- you have low inventories.

13 This has led to the development of what is
14 called a supply of storage curve. The term goes back
15 to John Maynard Keynes Home but Working, applies to the
16 agricultural economics. We see it working every day in
17 the petroleum markets, and I had a quote from just this
18 recent -- this week's or last week's Platt's saying
19 that spot prices of gasoline in West Coast markets were
20 6 cents a gallon lower for immediate delivery than they
21 were for August delivery, because there was no storage
22 space.

23 You can find these relationships in every
24 energy commodity. This is natural gas in December. We
25 see last year inventories were very low, and we had

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1 very high pump prices. We find the same rough idea of
2 a supply of storage curve for gasoline, for formulated
3 gasoline, in June. You see it for heating oil; that
4 is, when inventories get very low, as they did in
5 February of 2000, you have a huge premium for prompt
6 supplies of heating oil for forward markets.

7 Well, what you -- one of the things that has
8 happened is if you go and get these supply of storage
9 curves, you find that the proliferation of blends, John
10 Felmy's discussion, leads to a much more inelastic
11 supply of storage curve. The red curve here is the
12 fitted curve for the summers up to 1999. Post-1999, we
13 see a much steeper curve. That means small changes in
14 inventories lead to much larger increases in spot
15 prices.

16 Why? Because the storage problem is much more
17 complicated for the refining industry. So, EPA has
18 essentially twisted the supply of storage curve and
19 given us much of the increase in price. The FTC report
20 on the midwest alludes to this.

21 We also see that in the case of mergers and
22 structural change, that that twists the supply of
23 storage curve, so that when we are -- when mergers have
24 been approved and one uses the traditional measures of
25 Hirfendahls and concentration, much less the fact that

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1 these mergers are being undertaken for cost savings or
2 refineries are being sold to firms that can't come up
3 with the capital to hold the inventories, and that is
4 effectively twisting the supply of storage curve and
5 making it more inelastic.

6 So that what I'm saying is that in terms of
7 inventory dynamics, inventory setting commodity prices,
8 our merger policy has actually tended to make this
9 curve more inelastic. Our environmental policy has
10 tended to make this curve more inelastic. And when I
11 use the term "inelastic," what I'm saying is that
12 creates much more price volatility.

13 Another thing in this is, well, we'll let the
14 oil-exporting countries figure this one out.
15 Unfortunately, I wrote a paper for some people in the
16 oil exporting countries and explained the supply of
17 storage idea to them, and in March '99 they began to
18 follow the idea. If you look at inventories in terms
19 of normal days of supply across the world, the blue
20 area representing the normal area, in 1999, with the
21 collapse in Asia, we had very high inventories, then
22 they cut production, through their meetings in March
23 '99 -- a meeting I call an illegal conspiracy, but
24 that's personal -- they managed to push inventories
25 down and prices up. One saw that forward cut price

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1 curve go from very negative, \$12 prompt, to very high,
2 and inventories were run down.

3 So, conclusion: Petroleum products today are
4 more volatile and higher. Mergers in the industry are
5 not -- I repeat not -- the primary cause. The
6 proliferation of blends ordered by the EPA has reduced
7 the storage capacity and increased the volatility.
8 Ethanol requirements make matters worse, particularly
9 given the need to have extra tankage for ethanol and
10 the need to run drop the RVP for gasoline.

11 OPEC's conspiracy to keep inventories tight
12 adds to volatility. Industry efforts to improve
13 inventory problems obviously adds to volatility, and
14 industrial requirements for cleaner products may even
15 reduce product supplies further.

16 Finally, the FTC's vigilance on vertical
17 constraints created through terminal ownership is
18 probably the most important issue and should be
19 paramount, particularly, and I come back to the paper
20 that's in the book by Gilbert and Hastings.

21 Thank you.

22 (Applause.)

23 MS. DeSANTI: Well, I say nothing about the
24 efficiency of the industry, but this is the most
25 efficient presentation by speakers that I have ever

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1 participated in. You have ended 15 minutes early.
2 This is a wonderful present, a precedent. So, we are
3 going to take a short break. We will start again at
4 10:15, but we do have a packed panel. This will enable
5 us to go through more of these points when everyone
6 else is at the table and bring them out.

7 And after the break, Michael Wroblewski,
8 Assistant General Counsel for Policy Studies, will
9 begin that panel discussion. Once again, we will start
10 promptly at 10:15. Thank you.

11 (A brief recess was taken.)

12 MR. WROBLEWSKI: Why don't we go ahead and get
13 started.

14 What I'd like to do now is introduce all of the
15 panelists that we've assembled to have the panel
16 discussion on some of the issues that were raised this
17 morning, and in particular, while this morning's
18 session focused on crude oil and refining issues, this
19 afternoon's sessions will be concentrating on
20 transportation and marketing and distribution issues.

21 First I am going to introduce all the
22 panelists, starting from my far right, your left, is
23 Bob Slaughter. He's General Counsel and Director of
24 Public Policy at the National Petrochemical and
25 Refiners Association.

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1 To his left is Ed Rothschild. He's a principal
2 with Podesta/Mattoon and is a nationally recognized
3 expert in oil, natural gas and other energy-related
4 issues.

5 To his left is Tyson Slocum. Tyson is the
6 senior researcher with Public Citizen, specializing in
7 electric utility restructuring and oil and gas policy.

8 To his left is Ben Lieberman. Ben Lieberman is
9 a senior policy analyst with the Competitive Enterprise
10 Institute.

11 We have already heard from Mr. Verleger this
12 morning.

13 To his left is Mark Cooper. Mark Cooper is the
14 director of research at the Consumer Federation of
15 America and president of Citizens Research, an
16 independent consulting firm.

17 To his left is Michael Right. Michael Right is
18 Vice President of Public Affairs for the AAA Auto Club
19 of Missouri.

20 To his left is James Plummer. James is a
21 policy analyst for Consumer Alert, a nonprofit,
22 nonpartisan consumer group based in Washington, D.C.

23 To his left is Jim Mongoven. Jim has been --
24 he is in our Bureau of Competition, and he's been
25 instrumental in pulling this conference together.

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1 To my right is David O'Toole. David is with
2 the FTC's Midwest Region and has been instrumental in
3 putting together the Midwest Gas Report that was
4 released this spring.

5 To my left is Susan DeSanti and then Jay
6 Creswell. Jay is in the Bureau of Economics here at
7 the FTC and is one of the principal members of our
8 petroleum and oil mergers team.

9 To his left is John Felmy, who we heard from
10 this morning.

11 Going around the corner of the table is John
12 Cook. He's the director of the Petroleum Division of
13 the Office of Oil and Gas for the Energy Information
14 Administration. Dr. Cook is responsible for
15 collection, publication and electronic dissemination of
16 crude oil and petroleum product price and volume data
17 and for analysis of petroleum markets.

18 To his left is John Rasmussen. He is an
19 economist with the Office of Energy Markets and End Use
20 of the Energy Information Administration, EIA, of the
21 Department of Energy.

22 Tom Greene is to his left.

23 To Tom's left is Glenn Jackson. Glenn is -- we
24 are indebted to Glenn for pinch-hitting for Bob Dineen,
25 who is unable to make it today. Bob and Glenn are

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1 representing the Renewable Fuels Association, which is
2 the national trade association for the domestic ethanol
3 industry.

4 Next we have Larry Chretien. Larry is the
5 executive director of the Massachusetts Energy
6 Consumers Alliance. Mass Energy is a nonprofit
7 organization with a dual mission of making energy
8 affordable and environmentally sustainable.

9 And last, but not least, we have Ed Murphy. Ed
10 is general manager of the downstream energy segment for
11 the American Petroleum Institute.

12 Before we get started with the panel
13 discussion, John Cook and Jon Rasmussen of EIA have
14 agreed to provide us with additional factual
15 information about two aspects of the petroleum
16 industry. John Cook will provide us with a brief overview
17 of the relationship between crude oil prices and
18 gasoline prices based on modeling done by the Energy
19 Information Administration of the Department of Energy.

20 John?

21 MR. COOK: Thank you, Michael. It's a pleasure
22 to be here, at least it might have been, had you not
23 lined me up right after Dr. Verleger here, always a
24 tough person to follow, and in no small part because he
25 presents faster than I do, and that's another way of

1 saying that somebody has to spoil your efficiency,
2 Chairman, that will probably fall with me.

3 That said, whenever gasoline prices jump
4 sharply, at least two questions routinely arise. The
5 public invariably questions -- asks the question why do
6 retail gasoline prices seemingly always rise more
7 rapidly, why, in fact, to a greater degree than they
8 fall? To the extent that we see a sticking pattern,
9 the common or the norm would suggest at least to
10 consumers that there's some anticompetitive aspect of
11 market workings there.

12 Indeed, that generally leads to the speculation
13 that perhaps market forces really don't explain all the
14 variation we see in gasoline, or generally speaking oil
15 prices, so there must be some nonmarket forces or
16 anticompetitive behavior at work.

17 Our analysis suggests otherwise. Our
18 strategies are premised upon the notion that most if
19 not all of retail price variations will be explained by
20 the shifts in market fundamentals, that is, shifts in
21 balanced exchange, supply and demand, in either crude
22 markets or wholesale gasoline markets.

23 Indeed, the econometrics show -- and I'll try
24 to demonstrate quickly -- that in the balanced pattern,
25 it is expected behavior; that is to say, it's not a

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1 result of market manipulation but simply the result of
2 prior events.

3 To illustrate some of these findings, we began
4 in a conventional manner by decomposing retail prices
5 into the main underlying components and sources of
6 price change that occurred and charts that the sectors
7 of price levels. At a glance you can see that over the
8 last ten years there's a tremendous amount of
9 correlation between these three levels, as indeed is
10 often the case. If you look over a broad period, crude
11 oil price movements seem to be almost identically
12 mirrored at the retail level.

13 Indeed, historically, and, for example, periods
14 like since 1990, we see fluctuations in retail prices
15 almost entirely explained by movements in the
16 underlying crude market, yet we have for last summer
17 and especially this spring, that crude markets don't
18 explain all of the retail movement. There's a
19 significant theory that certainly seasonally and when
20 wholesale markets tightened considerably over the last
21 couple of years. An additional burden comes from the
22 wholesale market.

23 So, if we are going to understand these price
24 patterns, we need to look a little more closely and
25 quantitatively at the drivers underlying both the crude

1 market and wholesale market. There's a lot that can be
2 done with global oil demand, global oil supply and the
3 drivers that underlie these relationships. I'm going
4 to cut to the chase and show this, simply chart
5 movement since the early nineties, and crude oil prices
6 here again, stock levels for the developed countries.

7 One of the things that we have plotted here are
8 crude oil and product mediations per month, and we see
9 a high correlation here. In 1996, when stocks were
10 low, we saw crude prices rising over \$25, only to
11 reverse towards \$10, and as stocks rose to very high

1 buying capacity, it's shortage of global tankers, it's
2 market fluctuation, anything but.

3 So, to sort of attempt to sort out the wheat
4 from the chaff here, we've modeled this relationship
5 between crude prices and relative inventory levels, and
6 although it's not great, it's certainly somewhat
7 successful here.

8 The forecast or predicted line for crude prices
9 is in red, you see the actual there, and it picks up a
10 trend, it picks up most of the turning points and it
11 even allows you to predict within a dollar or two what
12 crude prices are on a day that you know what the stock
13 amount is.

14 Now, it's true that in early '99, the markets
15 were extremely soft, and oil prices ran a little bit
16 ahead of themselves in a downward direction here, and
17 again, late of 2000, markets tightened extraordinarily,
18 prompting some excessive bidding upward in prices,
19 although what the final analysis suggests to be the
20 equilibrium point.

21 Nevertheless, when our expectations, you know,
22 are not realized, eventually you start to go back to
23 the fundamental goals. The main point here is that
24 even in this worst case, we only underestimate by \$3 to
25 \$4. So, if you're thinking about \$35 oil prices, \$32

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1 of it was explained by these relative inventory levels
2 in September. It's only about \$3 or so for all these
3 other unexplained variables, including speculation.

4 Okay, so, crude oil prices in general drive
5 gasoline prices. Crude oil prices to a high degree can
6 be explained by market fundamentals, but there's still
7 a little bit of boost in there from the wholesale
8 market, that's why we say this is one of the drivers,
9 and can we quantify those.

10 Again, to briefly summarize, we basically can
11 turn and look at U.S. crude and gasoline stock patterns
12 over the last few years. The normal bands are shown
13 here in blue and green. And focusing on the crude path
14 first, note the similarity to that OECD pattern.
15 Global markets highly correlated, highly linked. When
16 OECD stocks were high in '98, so are the U.S. crude oil
17 stocks. As they fell on the OPEC market, so did crude
18 oil stocks.

19 We noticed a strong linkage to the gasoline
20 market. These are not separate markets. They are
21 strongly correlated. In general, when you have lots of
22 crude supply, you get lots of gasoline. When you have
23 very low crude supply, you don't get a whole lot of
24 gasoline. Very simply put, if crude's not available,

1 Putting it on an economic basis, high crude
2 prices add to the marketing costs of gasoline
3 production, and they cut margins, they create
4 degradation, which Dr. Verleger talked to that. All of
5 these things discourage refiners from producing extra
6 gasoline, and ultimately that gives you those costs.

7 Now, what we're saying here then is that OPEC
8 cuts and high crude prices affect gasoline prices
9 directly through the feedstock cost but also indirectly
10 by reducing gasoline inventories. Low inventories, low
11 coverage, low buffer sets the stage for spikes and adds
12 price pressure to the wholesale market, which
13 ultimately gets passed on.

14 A typical way of measuring this extra pressure
15 from the wholesale market is to show the difference
16 between spot gasoline and spot crude, that's the blue
17 region here. It's noted that these margins or spreads
18 vary a lot over time due to seasonal reasons and for
19 extraordinary reasons.

20 Notice that in '99, when stocks were high,
21 these spreads and margins are fairly ordinary, fairly
22 low, this is in the summer of '99. On the other hand,
23 when stocks dropped to fairly low levels last summer
24 and this spring, notice the huge jump in spread. The
25 record spread was last spring of over 21 cents a

1 gallon. So, again, we see a strong correlation here
2 between the drivers of the gasoline balance or relative
3 inventories and price spreads and wholesale price
4 pressures.

5 Now, I wish I could say that we had been
6 successful in quantifying this, that we could show you
7 the same degree of explanatory chart, but I'll simply
8 opt out and say we just started to model this area, and
9 it's an extremely complex one, and we can explain a
10 large chunk of it, but not to my satisfaction or
11 anybody else's. So, there is a little bit of
12 unexplained variation left in the complicated portions
13 of the market.

14 Fortunately, we don't have to pin down every
15 last penny of price pressure to look at the downward
16 sticking phenomenon a little more closely. Whatever
17 the drivers of wholesale prices or spot prices are, the
18 downward stickiness result from or are related to in
19 our view for the past year, in fact, results from what
20 turns out to be a fairly consistent relationship
21 between wholesale trends and retail trends.

22 So, if we follow this here, again we see them
23 turning together very closely. The best difference is
24 when spot prices are evolving, any retail dealer will
25 tell you this is because he absorbs a significant

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1 amount of the initial cost increase, partly to avoid
2 loss of business, but he is in business, and eventually
3 he can't absorb all the increase. So, he has to pass
4 it on at some point. That suggests that the retail
5 pattern will be in lag, and it is.

6 If you look at the peaks here, you can see that
7 the peaks of the retail line, to the right of the --
8 rather, the stock peaks. So, again, you have a lag
9 relationship of some sort going on here, and in
10 particular, retail prices seem to continue rising even
11 after the wholesale prices are dropping in a symmetric
12 manner. Likewise, retail continues to drop even after
13 the wholesales are increasing, so it really does look
14 like we have got some sort of passive relationship
15 here.

16 The retail changes are directly driven by other
17 forces. So, again we bring out our economics book,
18 Econometrics 101, go through, and this chart summarizes
19 the results.

20 The first column there for New England
21 represents, it says that indeed, about 50 percent of
22 any wholesale price change is passed through in the
23 first four weeks of the first month, most of the rest
24 of the wholesale change in the next month, and
25 technically all of it, which is an important point,

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1 within 10 to 12 weeks. We might want to just shortcut
2 that to say half now and half later, half the first
3 month and half the second.

4 Most of the midwest and the West Coast show a
5 much higher pass-through rate. We don't really
6 understand that, but fortunately this pass-through
7 effect is symmetric. That is, if we have a decreasing
8 pass-through at the same speed and at the same degree,
9 and therefore, there appears to be competitive activity
10 there.

11 Indeed, the pass-through results, a simple
12 illustration, shows you both competition and why we get
13 this asymmetric retail pattern. A real simple
14 example, if we're at \$1.40, which we were in mid-March,
15 and prices jump at the wholesale level maybe 10 cents
16 in the first month -- I wish they had only jumped 10
17 cents -- but suppose they had jumped 10, the
18 pass-through results say that about a nickel of that
19 goes through retail in the first month and the other
20 nickel goes through in the second month. But if
21 wholesale prices drop fairly quickly, that 10 cents
22 they rose, then half of that decrease is passed through
23 in that same second month and then again in the third
24 month.

25 So, what you have here is a washing out or a

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1 netting out of things, where the second nickel increase
2 is cancelling out the first nickel decrease, so you're
3 stuck, so to speak, sticking at \$1.45 for a couple of
4 months here before the price then drops down to the
5 original level, \$1.40. So, standing back from all of
6 this, there's nothing funny going on. It does seem
7 like it takes two months to erase a one-month nickel
8 increase, and that does seem inconsistent, but looking
9 below, what you see is a 10 cent increase in wholesale
10 taking two months to be passed through and a 10 cent
11 decrease in wholesale taking two months to be passed
12 through.

13 Finally, to nail down the competitive nature of
14 all of this and also be able to answer a couple of
15 questions, namely, what investment advice will be next
16 week or the next couple of weeks, we get a lot of the
17 retail changes as a function of the wholesale changes,
18 and this is pretty decent, an exaggerated scale. So,
19 we get the trend right, and we get the level within a
20 penny or two in most cases, especially since March or
21 since the market has been in a relative decline, we
22 have been sometimes within a tenth of a penny, more
23 typically a half penny to a penny, but it predicts
24 pretty well, and notice it explains the changes at the
25 retail level very well as a function of wholesale

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1 changes.

2 To the extent that there is consistency in the
3 relationship, to the extent that we can model it,
4 predict it to this degree, it seems hard-pressed to
5 argue that there is a significant amount of
6 anticompetitive activity going on.

7 Now, I know this is a national level model
8 here, but it's been adapted for regional models. We
9 have done this work also at the regional level,
10 essentially at the midwest, and it also holds on diesel
11 fuel, we have done that, but time and again we've seen
12 this explaining whatever the symmetries are perceived
13 by the public at the retail level.

14 The local area is a different story. I guess
15 some of the other speakers may talk to that.

16 Thank you.

17 (Applause.)

18 MR. WROBLEWSKI: Thank you.

19 Next, Jon Rasmussen will provide us with a
20 brief overview of the financial performance of the
21 refining industry in the U.S. so that we may have a
22 common understanding of where the industry has been
23 during the last decade.

24 ^ MR. RASMUSSEN: We hear a lot about
25 efficiency, and one of the main propositions in

1 economics is that companies undertake activities with
2 relatively high rates of return and then be withdrawn
3 from areas with relatively low rates of return, but we
4 do see trends in investment in U.S. refining. The data
5 I use is from EIA's financial reporting system. They
6 collect data annually from major, major companies
7 through a very unspecialized form.

8 U.S. refining is one of the lines that they
9 study, and in 1999, the companies that they were
10 looking at covered about -- the Asia-Pacific U.S.
11 refining activity. These are the companies that were
12 there in 1999. 2000 data is very much in the process.
13 Of these 32 companies, nine had refining capacity in
14 the United States.

15 Now, let's take a look at profitability. This
16 is a measure that generates joint investment, basically
17 net income divided by the net assets appearing on the
18 balance sheet. Those of you who have ^ (inaudible)
19 procedures. ^ (inaudible) the first half of the
20 nineties, U.S. refining marketing profitability was
21 declining more often than not and was quite a bit lower
22 than the rates of return being realized in the majors'
23 other lines of business. Makes one wonder why you
24 would invest in this industry.

25 By the end of 1995, we see a clear upswing in

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1 refining profitability. Then in '99, perhaps just as a
2 point to estimate, is that there is a kind of a rough
3 parity achieved in refining marketing and other
4 businesses generally of that nature there, that
5 composition. I might add that in the preliminary data
6 from 2000 that we're looking at from the FRS, it
7 indicates that that variance is maintained in 2000.
8 The position there is in the upper right-hand corner

1 energy costs, and your cost of running marketing
2 networks.

3 Anyway, we found in the first half of the
4 nineties that the gross margin was clearly declining
5 and net operating costs had sort of a mixed trajectory
6 there, that they actually were rising at the beginning
7 of the decade, adjusted for inflation, and then was
8 enacted but definitely not enough to go up as far as
9 profitability.

10 Then in the second half of the nineties, the
11 gross margin was generally higher and costs were
12 generally balanced. We had increase in the net margin,
13 which underlies the rising profitability that was
14 ^ (inaudible).

15 Another component of the general investment is
16 the denominator, if you will, which is largely the net
17 profit line, equipment. Now, the refining component,
18 what I've done here is taking the net profit divided by
19 associated refining capacity, so what you see there is
20 the amount of investment, adjusted for appreciation,
21 per unit -- per barrel of capacity on a daily basis. I
22 think what's interesting here is that beginning in
23 about -- oh, about 1989, there was a very strong
24 upswing in this ratio, which really kind of measures
25 the capital intensity of U.S. refinery marketing -- of

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1 the U.S. refinery market.

2 And then in the mid-nineties and since then,
3 this has leveled off. We had a similar rise back in
4 the late seventies and early eighties and then again
5 had it flatten like that. We have some idea of why
6 that might be a result of an investment.

7 The top row there is total capital expenditures
8 for refining, adjusted for inflation, the majors for
9 the U.S. refining. The bottom there are environmental
10 capital expenditures, capital expenditures for
11 ^ (inaudible). This was collected by a census done by
12 the Congress department but was discontinued in 1994.
13 The American Petroleum Institute -- actually, I think
14 it started a little bit before then and has been
15 conducting it since. We basically use the company's
16 refining capacity to allocate most of the expenditures,
17 we do that.

18 Anyway, if we look at the nineties again, we
19 will find that although profits are low and generally
20 declining, with a strong uptake in investments that
21 maxed out around '9 -- '94, somewhere in there. Then
22 the downswing, and then that uptake in '98 has really
23 gotten ^ (inaudible) a bunch of nonintegrated refiners
24 to the point, mainly because of all the divestitures
25 that the vertically integrated companies were making of

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1 downstream assets. So, if you adjust for that, the
2 capital expenditures continue to decline in '97-'98 and
3 on into '99.

4 Now it's a little contrary to that proposition
5 I was talking about earlier, but we look at the
6 environmental capital expenditures to say that the
7 overall CAPEX roughly parallels in the nineties the
8 environmental capital expenditures. There was, of
9 course, a lot of other spending going on as well in
10 refining. So, it looks as though in some sense that
11 the environmental capital expenditures were undertaken
12 perhaps as a matter of survival, certainly as a
13 necessary to stay in the business, and that that was
14 more or less guiding the course of investment as we see
15 it there.

16 The early upsurge in investment way back in the
17 late seventies, we can see that that had very little to
18 do with what was required in the way of capital
19 expenditures for pollution abatement, as well as
20 ^ (inaudible).

21 These are just some trends that you might find
22 interesting, and I thank you very much for your
23 attention.

24 MR. WROBLEWSKI: Thank you.

25 (Applause.)

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1 MR. WROBLEWSKI: One final word before starting
2 the next panel discussion. If any of the panelists
3 would like to be recognized to speak, please just turn
4 your name tag over, and one of the FTC -- myself or
5 Susan or one of the other colleagues here will
6 recognize you to speak.

7 Now, we've received a lot of really useful
8 information this morning, and I'd like to kind of parse
9 through it a little bit more slowly than we did this
10 morning. And so the first part of this discussion I'm
11 hoping will focus on crude oil price changes, and then
12 the effect of crude oil prices on gasoline prices as
13 well as home heating oil prices and other refined
14 products.

15 So, my first question really is directed
16 towards either Mr. Cook or Mr. Felmy or Mr. Verleger or
17 to any other panelist that would like to jump in, and
18 the question concerns the relationship between crude
19 oil inventories, both here and abroad, and the price of
20 crude oil in terms of the wholesale price. And we
21 would like to kind of flesh out that relationship just
22 a little bit more, and then we can start the discussion
23 from there.

24 So, I'm not sure who would like to start.

25 John?

1 MR. COOK: Thank you.

2 MR. WROBLEWSKI: Also you have to speak very
3 closely into these microphones in order to get this
4 conversation on the record.

5 MR. COOK: As I suggested in my remarks
6 earlier, tighter crude oil supplies and tighter crude
7 oil prices impact gasoline in a number of ways. First
8 of all, there's the cost of feedstock which gets passed
9 through, but what seems to be missing in a lot of the
10 discussion of all of this is its linkage with the
11 gasoline market in the sense of marginal costs, in the
12 sense that it undercuts margins, and tight-priced crude
13 typically occurs with market elevation.

14 All of these things discourage refiners from
15 producing as much as they had otherwise produced. So,
16 gasoline demand continues to chug along or even surge,
17 as we've seen in July, over the 4 percent pace, and
18 gasoline stocks fall. Traditionally, you know, a tight
19 balance in the gasoline market is reflected in low
20 gasoline stocks but adds pressure to the wholesale by
21 affecting the crude oil market, and yet you have got
22 crude oil heading the gasoline price, the wholesale
23 price, in two different directions, which leads to
24 rising cost, in reducing stocks, which adds to
25 additional pressure.

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1 For some reasons, I skipped the fact that there
2 are obviously other forces at work in the wholesale
3 markets, for example, last winter. The very cold
4 November and December increased oil demand and caused
5 the refiners to produce more heating oil at the expense
6 of gasoline, and this also put a boost to natural gas
7 prices, which caused some fuel switching, again
8 boosting district demand and district direction at the
9 expense of gasoline, and still the high natural gas
10 prices undercut into the heating oil production and
11 consequently into formulated gasolines.

12 I believe forces combined, you know, over the
13 winter and the early spring period that gave you low
14 gasoline stocks and set the stage for a price spike,
15 which occurred because, again, with the low cut rate,
16 you had a significant amount of refinery maintenance
17 going on in late February and March, that very tight
18 balance between supply and demand on top of the lower
19 stocks started to build up prices, and as prices
20 started to move up, market psychology set in with
21 market participants worried about whether or not this
22 tightness would worsen with even higher prices as you
23 moved to the peak driving season, and that precipitates
24 your typically panicked or precautionary buying
25 syndrome, with factors like environmental regulations

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1 and buying capacity also contributing or compounding to
2 that volatility.

3 On the other hand, it seems fairly clear that
4 refinery capacity is not the root cause or the root
5 problem here, otherwise they wouldn't have a gasoline
6 market flooded right now, but we can certainly say that
7 the lack of surge capacity extolls the duration that
8 prices remain elevated. So, if you don't have the
9 surge capacity, you have to go long distances away,
10 like Europe or whatever, to get more gasoline at the
11 right price, but it clearly along with the
12 environmental regulations of the various types of
13 gasolines that are necessarily available in, say, the
14 midwest also extends that duration there.

15 The main point that I was trying to make that
16 seems lost in all of this is that forces driving crude
17 prices drive the raw material costs and also tend to
18 depress stocks over and above any other contribution to
19 depressing wholesale stocks.

20 MR. WROBLEWSKI: Okay, thank you.

21 Ed?

22 MR. MURPHY: There appears to be a high amount
23 of agreement among the analysts about what's been
24 driving the market and the forces behind it, so maybe
25 in response to your question, Mike, and maybe to create

1 some controversy, I'd ask Phil and John, I'm a little
2 concerned -- there is no question that there is a very,
3 very high correlation between inventory levels, both of
4 crude and product, and price changes, and I -- but my
5 question really is, I think that does not necessarily
6 suggest that there is a causality from low crude
7 inventories or low product prices -- low crude
8 inventories to higher prices.

9 The existence of inventories reflects the
10 market's expectations about what is going to happen.
11 When Phil talked about the correlation with high
12 prices, I think high prices by definition mean higher
13 than what the market thinks is going to be sustained
14 over some reasonably foreseeable period of time. In
15 that environment, there is obviously a major incentive
16 to draw down inventories, to minimize inventories. If
17 the market is perceiving that prices are high,
18 inventories will be drawn down.

19 So, it is not unexpected that when you see high
20 prices, you would also see inventories -- low
21 inventories. You'd be foolish to hold out inventories
22 if you thought prices were going to fall.

23 So, maybe I should just ask John and Phil what
24 they might think about that and whether or not there's
25 a -- which way the causality's going.

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1 MR. WROBLEWSKI: Okay, Phil?

2 MR. VERLEGER: Well, we really need a picture
3 on the screen of a puppy chasing its tail, because
4 that's what these inventory discussions can get into.
5 Technically there are two markets. There is a market
6 for future delivery, and there's a market for cash
7 delivery. Chairman Greenspan focuses mostly on the
8 very far forward crude oil market, if you read his
9 testimony, and it's a forecast of where crude prices
10 are going. That's one theory that comes out of
11 financial analysis.

12 The second theory says that spreads reflect
13 really the demand for inventories. I talked about
14 those, and that the cash price reflects the current
15 condition of supply and demand in the market, and with
16 physical commodities, that model seems to work better.

1 return. This caps sort of the relationship, and it's
2 abstract and it's hard to talk about, but it caps
3 really the relationship between cash and forward
4 prices. You won't see a situation where cash
5 commodities are selling for 10 and forward are selling
6 for 100 unless it's extremely expensive to store the
7 commodity or there's perishability.

8 On the other hand, when you start to run out of
9 commodities, you can't arbitrage in reverse. Williams
10 and Wright have this wonderful saying that you cannot
11 borrow from the future in a physical market. Now, we
12 do this all the time in the Social Security system, but
13 in the financial market, this is the fundamental
14 difference between the physical and the cash market,
15 and so what happens is that because you can't borrow
16 from the future, you can have extreme price run-ups in
17 the prices of a physical commodity, whether it's a
18 spark, electricity, or whether it's natural gas or
19 whether it's oil.

20 So -- and in California, we've seen a case
21 where it's been argued that companies managed to
22 constrain the selling of inventory in natural gas
23 coming up to last inventory, so that you couldn't
24 borrow, and that led us to the equivalent of \$240 a
25 barrel of natural gas prices. So, when we're

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1 describing this situation, really the way the price
2 formation works in terms of crude oil is the
3 incremental supplier in the market, OPEC, chooses to
4 squeeze the supply of oil and bring the oil down, and
5 then you get a random, unexpected surge in demand --
6 John Cook's cold weather or something like that -- and
7 that pulls inventory down further, and that's what --
8 that's the mechanism by which we get these very high
9 prices.

10 All the tests that one does statistically
11 suggests that these markets are being reverted; that
12 is, the prices tend to go back, whether it's gasoline
13 margins or gasoline prices or crude oil prices, they
14 tend to reverse. A mean price for WPI is around \$19 a
15 barrel. So, coming to what Mr. Verleger said, any
16 company that's holding that can get \$30 for oil is
17 looking at this market, generally you won't see the
18 forward price trading anywhere near there, and so
19 inventories will be drawn down. It's kind of this
20 natural phenomenon. And, you know, that is -- that is
21 the mechanism, kind of the intellectual mechanism by
22 which prices get set.

23 Again, as I said, and I take this point very
24 strongly, when crude stock prices go up, the refining
25 markets tend to get squeezed and so refiners, A, can't

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1 afford to hold the crude oil inventories, and B, the
2 product price inventories go down, and the incentive to
3 hold them just isn't there. That's the mechanism.

4 MR. WROBLEWSKI: Okay, thank you.

5 Mark, you're shaking your head.

6 MR. COOPER: Well, let me -- I want to tell a
7 slightly different story, because it's quite clear --
8 and this question here, the EIA knows that they can
9 correlate inventories with prices, and they say, ah-ha,
10 therefore, there's competition, because they can
11 predict the price based upon some stable moving
12 variable, and the real question is why do inventories
13 behave that way?

14 And Phil has one explanation, which has to do
15 with the commodity markets, but I would suggest that
16 while you can't borrow from the future, you can, in
17 fact, plan for the future, and that's what inventories
18 and storage policies are about.

19 So, let me tell a different story from John
20 Cook. Essentially he says that, well, we had a cold
21 winter and we were running refineries and so we were
22 producing oil -- heating oil and number two, and
23 therefore we couldn't produce a lot of gasoline, and so
24 our inventories got tight, and then in the spring, when
25 the price went way up, 30, 40 cents a gallon, people

1 started importing, because you can do that for a nickel
2 or a dime, and that spread was just too big.

3 The question is, if you really were at risk of
4 losing gasoline business in the spring, that is, if
5 that market were vigorously competitive, in January, in
6 December and November, you would have said, hey, maybe
7 I need to import today. That is, the capacity to
8 import gasoline exists all year long. Why do we wait
9 until after we get a 30 or 40 cent run-up?

10 Well, we do so because the individuals looking
11 at those markets know that there is nobody else out
12 there who's liable to be importing that stuff. There
13 is not enough competition in the one market that
14 actually matters. Phil says there's two markets, but
15 this is a physical commodity. There is only one market
16 that matters, and that's the physical market in which
17 you consume the product, fundamentally different from
18 all other financial futures. You actually consume this
19 stuff.

20 So, we have a different story. Why were people
21 so stupid in November as to not lay in gasoline when
22 they knew they would need it in March and April and
23 May? And the answer is, they don't face enough
24 competition. Market forces are not sufficient to
25 discipline them. They can do two things at once. They

1 can import gasoline, especially if they had enough
2 storage capacity, which they have been shrinking, and
3 they can produce heating oil. If they were scared to
4 death that they would lose their gasoline business in
5 April because someone else was importing gasoline and
6 would not let the price go up by 30 or 40 cents, very
7 different view of what the ultimate cause of inventory
8 policy is. It's competition at the pump that would
9 drive that better stock management, that is, more
10 competitive stock management.

11 MR. WROBLEWSKI: Okay, thank you. We have two
12 reactions to that.

13 MR. MURPHY: Well, I think the answer is that
14 Mark is just a lot smarter than most guys in the
15 industry. So, sitting back here in November, we didn't
16 know that there was going to be a California energy
17 crisis. We didn't know that there was going to be an
18 extremely cold winter, and so we didn't know what was
19 going to happen to gasoline prices. The futures market
20 did not know either.

21 I assume that if Mark is correct, he was back
22 in November of 2000 out there buying gasoline for
23 futures delivery in the April-May period, in which case
24 he's a very wealthy man. The hindsight is very easy on
25 that. If you know that the situation is going to

1 change, I would agree with him, then you would import
2 and then you certainly would try and take advantage of
3 supply. When you expect future prices to be high, you
4 would try to get those supplies to the market. That is
5 exactly what refiners did this spring.

6 When margins got high, when prices got high, we
7 saw record production for over a two-month period,
8 record gasoline production. Hindsight is very good.
9 If you knew it was going to occur in November, yes,
10 then you would have imported a substantial amount of
11 gasoline in the spring period, but you knew over that
12 entire period that your inventories were at
13 historically, unprecedently low levels and getting
14 there on a continuous basis. People didn't wake up one
15 day and discover that inventories were way too low.
16 They could see that developing continually.

17 I think, Mark, what happened is the distillate
18 season -- if you look at the data, the distillate
19 production season, because of the extremely cold

1 That's what drew the inventories down. That's what
2 largely created the problem in the April period.

3 MR. WROBLEWSKI: But you know, one of the
4 unique features of this forum is that we don't
5 necessarily have to answer the questions here. We can
6 identify the factors and then move on.

7 Larry, you had one additional other point that
8 you wanted to make.

9 MR. CHRETIEN: Yes, I would like to make some
10 observations about heating oil. That's what my
11 organization is concerned about. Gasoline is a big
12 problem, but to talk about our experience in the
13 Massachusetts area, our handout had a typographical
14 area, I referred to January 2001, and I want to focus
15 back on January of 2000.

16 Wholesale prices in New England skyrocketed --
17 nationally they did, as well, but more so in New

1 by wholesale prices spiking.

2 Every -- more than every penny of increase in
3 the retail price came from the wholesale level. The
4 retailers actually lost their margin at that particular
5 point, and they were stable thereafter. And what I
6 think is -- the FTC ought to be doing is focusing on
7 the wholesale market. It alludes to it a little bit in
8 the report that was done regarding California and
9 wholesale terminal operators for gasoline. That's the
10 concern I have in New England.

11 I would bash the retailers to death in
12 Massachusetts, because we sort of compete with them as
13 a buying group, but that's not necessary. It's a very
14 competitive market. I'm not sure that the market's
15 competitive enough at the wholesale level.

16 To echo what Mr. Cooper said, winter in New
17 England -- or to massage his language a little bit --
18 winter in New England is not a unique event. We have
19 it every year. We have had it for a long time. I just
20 turned 40, but it happened even before I was born. So,
21 the issue here is why aren't the refineries and why
22 aren't the wholesalers buying their product in
23 sufficient quantities to deal with the fact that
24 there's an oncoming winter?

25 I understand about degradation, but they were

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1 really caught with their pants down in that particular
2 moment to an extreme point of view, and we'll get maybe
3 into it in the afternoon session, but today, prices
4 have come down, but interestingly enough, wholesale
5 margins and retail margins are fatter than they were
6 before the price spike. So, the downward stickiness
7 persists a lot longer, and the whole volatility issue
8 plays into that. Consumers don't know what the hell is
9 going on in terms of where they can get a fair deal,
10 and so margins are sticky.

11 MR. WROBLEWSKI: Okay, thank you.

12 John Felmy, you have a comment?

13 MR. FELMY: Yeah. First I'd like to address
14 the heating oil problem in New England. The
15 fundamental problem when you had the price spike in
16 heating oil in New England in 2000 was transportation.
17 For those of you who are familiar with the situation,
18 New England consumes all the heating oil in the
19 country; they produce none. They also don't have any
20 petroleum products pipelines that transport heating oil
21 into New England.

22 So, we had extreme cold, which basically
23 interrupts the barge traffic. You had turbulent
24 weather, so you couldn't unload vessels to be able to
25 get heating oil, and so just at the time that you're

1 having sharply increased demand, you've got reduced
2 supply. Fundamental supply and demand. There's no
3 question, New England needs to step back on an energy
4 policy basis and really decide, do we need a refinery?
5 Do we need a petroleum products pipeline so we're like
6 the rest of the country?

7 But there's one other thing on the gasoline
8 note I'd like to mention that's been missed. There's a
9 fundamental reason why gasoline inventories are low
10 going into March and April, and it's EPA regulations.
11 That's been missed in the discussion.

12 Because of the dramatic difference between
13 winter and summer gasoline, you can't just keep very
14 high levels of winter gasoline until May 1 when you
15 have to have summer gasoline. So, there's an inherent
16 limitation. So, making an argument that, well, you

1 made a point on this that -- and this might be
2 something like EPA, but EPA essentially prohibits
3 selling that winter grade gasoline after a certain
4 date, whereas if one had a bit more flexible
5 market-oriented transition, such as they have in
6 Europe, we wouldn't have these problems. This is a
7 made-in-D.C. problem.

8 MR. WROBLEWSKI: Okay.

9 MR. COOK: As a lightning rod for some of this
10 decision, I need some rebuttal time here.

11 Actually, I want to underscore Ed's last
12 comments here and deal with some of those issues over
13 there.

14 First of all, gasoline reports in January and
15 February were very strong, record levels. At the same
16 time, we had low stocks. Now, let's don't confuse low
17 stocks as the causal factor to the price spike. They
18 aren't. They simply set the stage.

19 Indeed, more inventory supplies did not flow in
20 from Europe in January and February because the
21 economics weren't there, more or less getting it ahead
22 of time. But indeed what they could see were low
23 margins, relatively speaking, and no arbitrage; no
24 potential to make money on shipping extra gasoline to
25 the East Coast. So, we're in business to make money,

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1 stocks are low, but hey, you know, prices are very
2 moderate, the margins aren't there, the arbitrage isn't
3 great, you're not going to have any of that.

4 So, when we get to the March period, yes, that
5 affects the timing there. You had the stage set, and
6 then you had demand pick up a bit. You have refinery
7 maintenance problems. You have some unplanned outages.
8 You have market psychology working it out, refinery
9 capacity. All of these things conspire, if you will,
10 or combine to run those spreads up, bring in more
11 cargos from Europe, prompt up even more refinery
12 production than would otherwise occur and resolve the
13 problem.

14 It's not, as was suggested across the room
15 here, that had we known -- yeah, in fact, we talked at
16 a company level to some of the players in the midwest,
17 you know, in March, and all of them were simply looking
18 at the signals that they saw, looking forward in the
19 market here, and very hesitant to place forward
20 ethanol-based RFG in the Chicago market. One player
21 was speculating among the firms that were actually out
22 there, even though it was uneconomic to do so, and
23 taking a major beating from their management for taking
24 the risk.

25 In other words, most players are not going to

1 fight the forward curve. How do they know whether or
2 not the profit is going to be there until it's there?

3 MR. WROBLEWSKI: Okay, thank you. Let's finish
4 with the -- with Ed and Tyson, and then we will move on
5 to the next topic.

6 MR. ROTHSCHILD: One of the advantages of
7 participating in an event like this is we have gone
8 over for the last 30 years, so these things have
9 occurred over and over again, so it shouldn't be a
10 surprise.

11 What is new, however, and I think Mark touched
12 on it, is we have had an enormous shift within the
13 industry which we cannot ignore, and Mark -- in fact,
14 there was a nice graph in his study, that back in the
15 early eighties, we were averaging an inventory of like
16 ten days of supply in gasoline. We are now
17 consistently below five. We are not -- we haven't lost
18 a lot of demand. In fact, demand for gasoline has
19 grown enormously.

20 So, why are we at inventory levels so low?
21 That's not just market shifts and forward curves and
22 stuff like that going on. That may have some effect on
23 it. It is an overall policy investment change by the
24 industry to carry less inventory. It makes sense.
25 They don't have to invest as much, spend as much, and

1 they can make more money. So, from an industry
2 standpoint or a company standpoint, why hold as much
3 inventory as we used to if it's costing us money to do
4 so?

5 That means, as to additional profit, over the
6 same period that we have had -- and it's already been
7 discussed, I don't have to repeat it -- enormous
8 consolidation in the industry. So, we have fewer
9 players making decisions with less inventory. So, if
10 there is some problem, a refinery outage, turmoil, cold
11 weather, we don't have the cushion any more to minimize
12 the price. Prices shoot up way too high.

13 I don't know what the cause is. The cause
14 could be, you know, the weather, the cause could be
15 refinery outage. It's irrelevant what the cause is.
16 We are not in a position -- if the United States runs
17 out of oil, it affects our entire economy. This is an
18 important policy question. It's both a competitive
19 question and an overall policy question of whether or
20 not we need an inventory policy in this country that
21 requires in some fashion or motivates in some fashion
22 or incentivises in some fashion a higher level of
23 inventory so that we, the businesses who rely on it,
24 the consumers who rely on it, are not constantly -- and
25 I say constantly, you can see those blips -- constantly

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1 going up and down like a ratchet with respect to this
2 kind of behavior.

3 And I want to mention one point, all of this
4 gets magnified much more in markets which are today far
5 less competitive, California being the best example. I
6 have got -- you know, I believe the folks at Alex
7 Brown, a recent study, the refinery margins, and these
8 are margins for all of the refining areas, but in
9 California, for 2000 and for 2001, they reached as high
10 as \$25 a barrel. Now, that's a nice, you know, round
11 number that everybody can understand. Of course, it's
12 interesting to compare that to the Gulf Coast, who's
13 got a lot more competition, and believe it or not,
14 there we're finding margins that reach the incredible
15 price of \$8 a barrel.

16 So, one thing we have to look at and that the
17 FTC does take a lot of time looking at is looking at
18 markets, not just regional markets, but metropolitan
19 areas, because there we get into zone pricing and all
20 of these kinds of things. That's where a lot of these
21 excessive prices that consumers face are found.

22 Thanks.

23 MR. WROBLEWSKI: You raised a good question
24 about national inventory policy, and I'm new to this
25 area, but don't we have a strategic petroleum reserve,

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1 and didn't we tap that last year, and what was the
2 effect of it, if anything?

3 MR. ROTHSCHILD: There are three types of
4 inventory. There's an operating inventory, and John's
5 chart shows that minimum -- that lower level operating
6 inventory. There's a certain amount of stock that
7 every business needs to make sure that they don't shut
8 down, to make sure they keep running smoothly.

9 Then there are strategic inventories, which you
10 would use for strategic purposes, and the fact that
11 we've only managed in all of these years to draw down
12 the strategic petroleum reserve once or maybe twice,
13 and we have always disavowed any intent to influence
14 the price when we did it, Heaven forbid we should do it
15 for that purpose, that's a strategic reserve.

16 In between we have something called economic
17 reserves. In electricity, they don't exist. In
18 gasoline, they're down to a day or two. Economic
19 reserves in our view are reserves that are available
20 for expressly the purpose of disciplining prices and
21 cushioning price spikes. Three different kinds of
22 reserves, completely different functions in policy, and
23 probably need different policies to stimulate them to
24 come into existence.

25 I don't need to tell businesses about operating

1 reserves. They don't want to shut down. Government
2 will do what it's going to do with the strategic
3 reserve, but we do not have in this country an economic
4 reserve policy, and that's what we hope to stimulate a
5 debate about as we go on the roller coaster.

6 MR. WROBLEWSKI: Okay, thanks.

7 Bob?

8 MR. SLAUGHTER: Well, just one very quick
9 observation on that. I think it's always very
10 interesting when people advocate that the anecdote for
11 what they believe to be excessive costs is to force
12 people to engage in noneconomic behavior. I'm not
13 really sure that that's something that ever tends to
14 reduce costs, but I think that's what I just heard a
15 discussion about here.

16 You know, there have been a lot of changes in
17 the industry, and there have been some steps taken
18 essentially I think to control costs, which come from a
19 number of areas, which I know you'll want to get into,
20 but sometimes it helps to stand back and say, you know,
21 well, if a bunch of people whose job is to essentially
22 optimize whatever situation they're given are not
23 holding large inventories under all conditions,
24 regardless of cost, it's probably because it makes
25 economic sense to do so, and to force them to do

1 something else is just going to raise costs to
2 consumers.

3 MR. WROBLEWSKI: Okay, thanks. Phil, before --
4 Tyson had his sign up, so I am going to let him go
5 first.

6 MR. SLOCUM: Yeah, I think it's really
7 important to take a look at how the industry is doing
8 with the shortages. I mean, everybody is talking about
9 these shortages, but everyone really has to understand
10 what this looks like on the industry's balance sheets.
11 You know, they are experiencing record profits, and so
12 I don't think it is unreasonable for us to talk about
13 some reforms that have been discussed here about
14 inventories that may have an uneconomic impact on the
15 industry, because right now the industry is probably
16 the best performing in the American economy.

17 So, I think regulators and law-makers need to
18 start asking critical questions about whether or not
19 these great profit margins are coming as a detriment to
20 consumers right now, and I think that's pretty clear.
21 And, you know, a lot of different reasons have been
22 thrown about for why inventories are low and I have
23 heard some blame on EPA regulations. Personally, I
24 have taken a look at a lot of the lobbying registration
25 forms of the industry, and they spent a considerable

1 amount of resources, financial resources, fighting EPA
2 regulations, and so I would find it extremely ironic
3 that environmental regulations that the industry has
4 spent a lot of time lobbying against are now actually
5 providing these supply shortages that are enabling them
6 to enjoy record profits. Just an observation.

7 MR. WROBLEWSKI: Thank you.

8 Phil?

9 MR. VERLEGER: I guess I should start, truth
10 can be turned into fiction, but I think in talking
11 about inventories, one needs to look at, again, the
12 roll of forward markets and cash markets and
13 particularly the opportunity consumers have to protect
14 themselves by buying forward.

15 To hear about New England, when we were living
16 there, you could -- consumers could sign contracts or
17 forward contracts for heating oil, and many do, and the
18 trouble is consumers try to guess from time to time,
19 they are going to have a warm winter, and they don't
20 buy forward.

21 Really what we have here is an exercise in
22 technically incomplete contracts; that is, in the
23 gasoline market, it is hard for consumers to reach
24 forward, if there were a good forward market where the
25 futures prices would be higher, as Murphy referred to,

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1 and the incentive to build inventories would be there,
2 as it is in grain markets.

3 I think most importantly we see it in airlines.
4 Many airlines buy forward and have protected themselves
5 against increases in fuel prices, dramatically
6 protected themselves. Southwest is profitable right
7 now, while others who didn't do so well are not. So,
8 to say that the marketing, in part -- that we have
9 perfected this forward market, had we perfected it or
10 were there mechanisms to perfect it, you would wind up
11 with higher levels of inventory.

12 California, where I have looked at it, it was
13 blocked impartially, given the point that Gilbert and
14 Hastings makes, that the lack of terminals. You really
15 need an effective competitive terminaling market to
16 make an effective forward market for it.

17 MR. WROBLEWSKI: Okay, thank you.
18 Michael?

19 MR. RIGHT: Just like winter will be back in
20 New England, we will be switching from winter fuel to
21 summer fuel sometime in the spring of next year. One
22 of the agencies that obviously has a significant impact
23 on the cost and the availability of gasoline in this
24 country doesn't seem to be represented at this panel
25 today and won't be this afternoon, and that's the U.S.

1 EPA. I would suggest that the U.S. EPA in its
2 regulations and their specific impact on the
3 availability and the cost of gasoline be a major topic
4 reviewed by this agency.

5 MR. WROBLEWSKI: Okay, thank you.

6 We're going to move on to the next topic.

7 Let's move on in terms of refining issues, and some of
8 the things that we've heard this morning were that the
9 industry is running at a very high utilization rate, I
10 thought I heard 93 percent or was it 95 percent, I
11 don't remember, and I just wanted to kind of probe what
12 the infrastructure implications are for refineries to
13 be operating at such high levels. And I throw that out
14 for discussion, Bob, if you want to start or --

15 MR. SLAUGHTER: I'll take the first shot at it.

16 Needless to say, it's very difficult to operate
17 at that high level for a long period of time. I mean,
18 we've seen the industry operating at 95, sometimes up
19 to 99 utilization rates for some period of time during
20 peak demand season. Obviously it's very difficult to
21 do that given this type of equipment here that from
22 time to time needs to be serviced.

23 Most of the major manufacturing sectors in the
24 U.S. economy consider 85 percent rates of utilization
25 to be top utilization rates. Here you have an industry

1 that is consistently operating at 95 percent and above.
2 Of course, one of the reasons for that is there is not
3 a significant amount of spare capacity in the industry
4 anymore for a bunch of reasons that I hope we'll get
5 into, but one of the things that eventually, you know,
6 units have to undergo service turnarounds, and one of
7 the questions has been, you know, at what point are
8 they going to occur and what impact are they going to
9 have on supply, because we -- you know, we've put
10 ourselves in a position where there's so much focus day
11 by day on anything that's happening at any refinery in
12 particular areas of concern, and, you know, there is
13 almost an immediate press reaction to some of these
14 reports.

15 It's -- we have been comported -- the industry
16 has been exhorted by Secretaries of Energy now for the
17 last two to three years to do whatever we can to delay
18 turnarounds, simply because they're so concerned about
19 the impact of even taking relatively small units down
20 for a period of time, and I think that points out how
21 narrow the supply-demand balance has gotten to be in
22 the refining industry.

23 MR. WROBLEWSKI: Okay, thank you.

24 Ben? ^ S*Z switch to 2A here -- about 15
25 seconds missing according to note -- ck backup tape

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1 S*Z.

2 MR. LIEBERMAN: Exactly would be pretty tough,
3 but to have to separately refine, ship and store a
4 large number of fuels can be kind of a tricky
5 transition from the winter blends to the summer blends
6 of fuel. I think you have to look at the
7 infrastructure problems along with some of these
8 regulatory questions.

9 MR. WROBLEWSKI: Okay, thank you.

10 Since we've started on this in terms of the
11 different fuel types, just to throw out -- to make sure
12 everyone understands what they're talking about, can
13 someone describe the difference between what the Clean
14 Air Act requires in terms of reformulated gasoline and
15 then what a number of states have done in terms of
16 requiring differing standards, because I think there is
17 a difference?

18 MR. MURPHY: Yeah, I'll do that. Essentially
19 the geographic areas that -- the areas that are out of
20 attainment are required to have a reformulated
21 gasoline. Reformulated gasoline is defined to have
22 certain characteristics. It's also defined by the
23 Clean Air Act to include oxygenates. By definition,
24 you
25 cannot sell RFG without oxygenate. You have two

1 choices. You have ethanol and you have got MTBE. It
2 is very, very difficult with normal logistical problems
3 to bring ethanol to the East Coast. So, therefore,
4 the dominant oxygenate used on the East Coast has been
5 MTBE .

6 We obviously have some problems with that. It
7 has contaminated wells. Those places that do not have
8 MTBE do not want MTBE in their gasoline. So, those
9 areas that would like RFG, that could use RFG because
10 of its effect on emissions are reluctant -- not
11 reluctant, they are held to RFG and they are making
12 requests that they would have a different type of
13 gasoline. New Hampshire is a prime example of that at
14 the moment.

15 So, we have a situation where we have a clean
16 gasoline that is available but has what EPA has
17 determined is an unnecessary component, unnecessary
18 addition of oxygenates, which is driving states and
19 localities who need cleaner fuels to specify criteria
20 that is unique to their particular problem. So, we
21 have what many times has been referred to as boutique
22 fuels. That is in the place of a lack of any excess
23 refinery capacity, and it's further constrained the
24 complexity of the system and our ability to move
25 supplies from one area to another.

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1 If we were running capacities -- refineries at
2 85 percent utilization rate, this probably wouldn't
3 have been a problem. When you're running refineries at
4 95 and 99 percent, you not only then have concern about
5 the overall supply, but you have to get the supply
6 right in each and every area of the country, because
7 you can't distribute -- redistribute supplies from one
8 area to another. That's the whole boutique fuel
9 problem, which underlying that and driving that,
10 causing that to increase is the mandate in the Clean
11 Air Act that you have to add oxygenates to gasoline,
12 something that we are opposed to, something that an EPA
13 panel has found is unnecessary and called for the
14 elimination of, and so far nothing has occurred.

15 MR. WROBLEWSKI: Okay, thank you.

16 James?

17 MR. PLUMMER: I guess I would just like to echo
18 the problems with reformulated gasoline and mixing.
19 The way this affects the market makes it very
20 vulnerable to the distribution of fuel. Another thing
21 the FTC in its capacity may want to take a look at is
22 the patents on the process to mix these gasolines.
23 Unocal is, of course, the main people I'm thinking of
24 here, the idea that you can patent something that's
25 required by government regulation I think is kind of

1 out there and might call for a rethinking of antitrust
2 enforcement issues on that, you may want to take a look
3 at that.

4 MR. WROBLEWSKI: Okay, thank you.

5 Glenn?

6 MR. JACKSON: Thanks.

7 Just as you mentioned earlier, I'm here
8 representing the Renewable Fuels Association, and I'm
9 not a technical expert, and there are many people here
10 who are more knowledgeable than I am about gasoline
11 blends and that sort of thing, but I did want to say
12 that we agree that the balkinization of fuels or the
13 proliferation of boutique fuels is a problem. We don't
14 think fuels with ethanol are the problem. It's these
15 -- in many areas have tried to avoid being tricked into
16 nonpayment by, as Ed said, by developing their own
17 particular fuel for their particular region, and that
18 has put a strain not only on the ability of refiners to
19 meet that demand but on the ability of transporters to
20 transport the fuel and terminal owners to deal with the
21 fuel.

22 But generally in the case of ethanol, if you're
23 in a non-RFG area, you're adding ethanol at the
24 terminal to a conventional gasoline, and I don't think
25 that creates a problem. When we moved to phase two

1 RFGs I guess a year and a half ago, I think there were
2 a lot of challenges that refiners faced and that we
3 were very concerned about as well. I think what the
4 size of the market was going to be, how easy it was
5 going to be to make the base fuel and that sort of
6 thing. I do think refiners have gotten more
7 comfortable with that with experience, and we see more
8 refiners now being willing to make the base fuel for
9 the RFG, and particularly as markets move away from
10 MTBE to ethanol, we think it will be easier for
11 refiners to do that, and our own refinery in Memphis is
12 planning to make base fuel for RFG with ethanol for the
13 first time this year.

1 across the United States, but what we always say to
2 them is this is what economics and politics have done
3 to the simple two-fuel scheme that Congress came up
4 with in 1990, and much of it is a reaction, people who
5 felt that the prescribed fuel, particularly
6 reformulated gasoline, which does have an oxygenation
7 requirement, was for them uneconomic and, in fact,
8 and/or too much for their particular air quality needs.

9 More politics intervened, and so people
10 basically developed different fuels, but the important
11 point that I want to leave with you is that the
12 industry has largely learned how to optimize that
13 system, as bad as it is. I mean, that's essentially
14 the business of the refining and marketing industries
15 is to optimize even bad systems. So, for instance,
16 when we started talking about boutique fuels last year,
17 we were trying to explain why cities in relatively
18 close proximity in the upper midwest, you can't simply
19 move fuel from one city to another, because there are
20 different requirements.

21 Detroit, St. Louis, Chicago, all use different
22 fuels. That particular situation may be a particularly
23 difficult one and maybe needs to be addressed, but, you
24 know, boutique fuels, you know, it's not something that
25 I think people should just denounce, because unless you

1 do something with the underlying causes -- another of
2 the underlying causes is that the EPA has been willing
3 not to preempt any request for nonconforming fuels, and
4 there's no indication they're going to change that
5 policy, so I'm not sure how much we can do about it,
6 but a lot of these problems that we're talking about
7 today really have their root I think in the regulatory
8 process or the legislative process.

9 And I want to just echo what Michael said
10 earlier. I think that the FTC really needs to take a
11 look at what's happening in the regulatory process and
12 the impact of the regulatory process on the industry
13 and, you know, that is a again -- I mean, I've read
14 former Chairman Pitofsky's testimony before the Senate
15 Commerce Committee this spring, which is an extensive
16 discussion of how much in terms of money and staff time
17 the FTC has put into investigating every area of the
18 gasoline industry over the last three to four years.

19 It's expensive, and everyone should read that
20 document, but I think one of the problems there is that
21 much of this stuff is induced by regulations. The '90
22 Clean Air Act had the gasoline sulfur reduction, diesel
23 sulfur reduction. Those are things that have a
24 tremendous impact on our industry and yet the FTC is
25 not a part of the consideration, and no real analysis

1 of competitive impacts of very important regulations
2 are undertaken.

3 MR. WROBLEWSKI: Okay, thank you.

4 MR. SLAUGHTER: So, it comes right in with the
5 boutique fuel.

6 MR. WROBLEWSKI: Okay, thanks.

7 Ed?

8 MR. ROTHSCHILD: Just one clarifying point I
9 want to make, and that is when we talk about refining
10 capacity utilization, and this is just so people can
11 understand, even if it's in the high nineties, and I've
12 read some of the analyses, there are refineries that
13 run over 100 percent. So, I think we need an
14 explanation of how refineries operate, because how do
15 you operate above 100 percent and how long do you do it
16 and how does that affect a refinery operation? I think
17 we just need an explanation of that.

18 I just want to make one other clarifying point.
19 I'm here today, by the way, just my personal views,
20 they do not reflect the organization or the company I
21 work for. So, thanks.

22 MR. WROBLEWSKI: Mine don't reflect the
23 organization I work for either.

24 Tyson, go ahead.

25 MR. SLOCUM: It was mentioned earlier that

1 processing these boutique fuels may not be as much of a
2 problem if refineries were operating around 85 percent
3 as opposed to their current 95 or 99 or over 100
4 percent, and so I think it's important for us to turn
5 back the clock a little bit and figure out, well, how
6 come our refineries are operating at such high capacity
7 rates? Well, it's because a lot of refineries were
8 intentionally shut down by the industry.

9 There was a great investigation by Senator Ron
10 Wyden, I don't know if any of his staff is here, but he
11 got some great internal documents from the industry
12 itself saying, look, we're not making enough money in
13 the refining business, we are going to have to shut
14 some of these things down to increase our margins, and
15 I think regulators and Congress really need to take a
16 hard look at how these actions affect consumers and
17 affect the overall economy. It isn't environmentalists
18 chaining themselves to these refineries that are
19 causing the problems, it's industry themselves, and
20 they are looking to maximize profits, and we have to
21 look at how those actions affect the rest of the
22 economy and how it affects consumers.

23 MR. WROBLEWSKI: Thank you.

24 Ben?

25 MR. LIEBERMAN: Yeah, I do agree that

1 regulators should be looking at these refineries
2 shutting down. They should be looking at whether
3 they're encouraging this process as a group, a number
4 of onerous regulations that have particularly made it
5 difficult for some of the older, smaller refineries to
6 stay in operation.

7 One thing was particularly interesting is last
8 year, the Premcore facility in Chicago, which was
9 ground zero of high gas prices over the last year, they
10 shut down. One of the factors that they cited was the
11 enormous investment it would take to meet the new
12 desulfurization requirements. We have a number of
13 tough requirements both affecting fuels and affecting
14 refinery operations that will take effect in the years
15 ahead, and most people are predicting additional
16 refinery shut-downs, and I think we need to look to the
17 extent that that's being induced by a number of
18 regulations promulgated under the Clean Air Act and
19 other acts.

20 MR. WROBLEWSKI: Okay, thank you.

21 Phil, did you have something? You had turned
22 your --

23 MR. VERLEGER: No.

24 MR. WROBLEWSKI: Okay, Mark?

25 MR. COOPER: Actually, I -- this is an area

1 where I think we have a certain amount of agreement.
2 Consumers like big, competitive markets, and the
3 boutique fuels market is a small market, and the
4 smaller the market, the less flexibility you have. So,
5 we -- in our report, we definitely are interested in
6 finding a way to expand the size of the market. That
7 is a good policy, but we need to make sure that we do
8 it to the highest environmental standard, not the
9 lowest environmental standard.

10 The second question is, clearly the industry
11 has made a series of decisions, and the FTC report
12 pointed out that in the midwest, in deciding how to
13 meet the standard, a set of decisions was made about

1 are 50 good places to -- for one thing, to maybe build
2 a new one or to rehabilitate those so that people don't
3 think we have to build refineries in their backyards.

4 Those were industrial size refineries closed
5 over the past decade, and they might encourage less
6 resistance than going forward. But we'd also like to
7 know the economics as to why those sites were closed,
8 and as was suggested, we need to expand at those sites.
9 We would particularly like to get people who own those
10 refineries who are not already integrated into the
11 industry, such as Mr. Robertson, but -- and these are
12 areas where I think there's useful agreement. We need
13 capacity, we need big homogeneous markets, we need to
14 reconcile that with environmental policy.

15 MR. WROBLEWSKI: Thank you.

16 James?

17 MR. PLUMMER: Actually, Ben made most of my
18 points already about regulation, so really lowering the
19 rate of return that a company can get on refineries,
20 they can only get 4 percent, they can make more money
21 by throwing their money into a mutual fund, and that's
22 going to cut down on the amount of production in a
23 refinery.

24 I do think that one thing I think would help is
25 that I believe earlier this year President Bush

1 suggested that a more integrated infrastructure against
2 different countries, not just here, might help
3 consumers, and that might be the other way to get
4 around trying to get some of these regulations if you
5 urge profits and economies and therefore put a real
6 bottleneck on gasoline supplies across the country.

7 MR. WROBLEWSKI: Okay, thank you.

8 Tom?

9 MR. GREENE: Essentially, there's something in
10 the nature of a report, when we did hearings on behalf
11 of the Attorney General concerning gasoline in
12 California, the switch to ethanol as the oxygenate for
13 MTBE, but there were some physical questions here about
14 volume, which may affect us as we go on to learn about
15 how tight supplies are. Basically MTBE represents by
16 volume about 11 percent of a gallon of gasoline.
17 Ethanol will replace some amount of that, but there
18 still appears to be some significant shortfall, so that
19 may have a direct effect on the critical balance that
20 we have been chatting about here momentarily.

21 So, this is one of those areas where
22 environmental policies, particularly the question of
23 what oxygenate might be used and, indeed, what you need
24 in oxygenate will come into play in a very clear
25 situation.

1 MR. WROBLEWSKI: Thank you.

2 Glenn?

3 MR. JACKSON: Well, if you use more
4 conventional gasoline, it's going to free up that extra
5 supply, so -- but actually the comment I would like to
6 make, in my company six or seven years ago, we proposed
7 building a grass roots, greenfield refinery outside of
8 Phoenix, and our stock price immediately went down 25
9 or 30 percent because our investors thought we were
10 absolutely nuts.

11 MR. WROBLEWSKI: Thank you.

12 Ed?

13 MR. MURPHY: Yeah, to move on in the sense that
14 we need to expand refinery capacity, both in the
15 existing refineries as well as new grass roots
16 refineries, that is a major issue which we have right
17 now with EPA. We can't get the permits right now to
18 put the gasoline desulfurization units in that are
19 going to be required to produce gasoline in a couple of
20 years. The issue there is how do you get by the
21 permitting and regulation process if you are going to
22 install major industrial facilities? Stop talking --
23 you need to control the industry, but this is a major
24 problem. This also was a factor on the East Coast.
25 So, that is, in fact, a real difficult issue.

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1 I want to get back to Tyson on one point he
2 made. I think we can forecast right now that unless
3 the existing diesel sulfur rule is changed -- and I
4 don't mean if the end objective is changed, but unless
5 it's changed to make -- to have a more logical
6 implementation strategy, we will be back here in 2006,
7 precisely in August of 2006, asking why there are
8 shortages of diesel fuel, why prices have gone up to
9 \$2.50, \$3.50 and \$4 a gallon, why trucks are stopped in
10 the Rocky Mountain area because they can't get access
11 to diesel fuel.

12 The regulation does not make economic sense.
13 We argued that. We were obviously unsuccessful. We
14 are paying the -- we will pay the consequences, and we
15 have paid the consequences for some of the regulations
16 in the past. That's -- so, the long-term -- capital --
17 as John was saying, capital flows into and out of the
18 industry until a competitive rate of return is
19 achieved. Consumers pay the cost of regulations. High
20 resource demand by consumers is an additional factor.
21 Consumers are going to pay the cost long term for the
22 low-sulfur diesel and the increased cost of the
23 distillate.

24 So, I think -- and I think that was Bob's
25 point, to enforce economic behavior on the idea that

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1 somehow this is going to be taken out of the hides of
2 stockholders is not correct.

3 MR. WROBLEWSKI: Just to clarify the record,
4 would you please explain what the diesel sulfur rule
5 is?

6 MR. MURPHY: The diesel sulfur rule reduces the
7 sulfur content of on-road diesel, which now averages at
8 350 parts per million. It will reduce that to 15 parts
9 per million in July -- July 1, 2006. At that time, the
10 first truck that requires this fuel will roll off the
11 assembly line. At the end of the year, maybe 5 percent
12 will require this fuel. We as an industry will be
13 required to have 80 percent of that -- of the total
14 distillate, the total diesel supplies of the low sulfur
15 fuel in July of 2006. So, it's just a tremendous
16 economic waste and one that is not only going to cause
17 large increases in costs but frankly is going to cost
18 -- and that was part of the reason that Premcore closed
19 down -- tremendous capital investment, and thus a loss
20 of capacity and reduction in supplies, and consumers I
21 think are going to feel the impact of it.

22 MR. WROBLEWSKI: Okay, thanks.

23 Jay, you had a question for our panel.

24 MR. CRESWELL: A couple of you have alluded to
25 the small refineries, and that has happened, and if we

1 go through Tyson's list, for example, virtually all the
2 refineries were closed by the smaller independents.
3 So, I'm not sure how you can reconcile that with the
4 view of an oligopoly, a tight oligopoly, but it does
5 appear to be concentration.

6 The other question I would have for those
7 familiar with the industry is whether the refineries,
8 how many of them could be reopened in the foreseeable
9 future, especially if they were considered uneconomic
10 by independent actors in the recent past?

11 MR. MURPHY: Well, the point you make, Jay, is
12 correct, that that made almost all the refineries shut
13 down, simply low -- refineries with low capacity. One
14 of the consequences of the regulations that were put in
15 place is there are tremendous economies of scale in the
16 regulations, so that over the course of some of these
17 -- the low-sulfur diesel, the low-sulfur gasoline, the
18 reducing toxins, for example, decreases with the size
19 of refinery.

20 So, that has driven refineries -- the average
21 refinery size about ten years ago was around 60,000
22 barrels. It's now a little over 100,000 barrels a day.
23 So, the average refinery size has increased
24 substantially in response to the economics.

25 MR. WROBLEWSKI: Phil, why don't you go ahead,

1 then Bob.

2 MR. VERLEGER: I think -- John Cook had a graph
3 of the investment in refineries, and with regard to the
4 notes from 1972 to 1980, we had this huge financial
5 incentive to build refineries, sell refineries under
6 the old entitlement program, as long as you were an
7 independent firm, and the regulation had the desired
8 effect. You can double a lot of these small refineries
9 that shouldn't have been built, wouldn't have been
10 built, in a competitive system that didn't have its
11 regulatory hand out, and it has taken years to close
12 many of them down.

13 We also through the regulations kept some of
14 them operating, such as Texaco's oil refinery. So,
15 mostly Ed's right in terms of the economies of scale,
16 but if you look around the world, nobody builds a
17 refinery today around the world of less than 150,000 to
18 200,000 barrels a day because of the economies of
19 scale.

20 The other element in this is quite frankly
21 there's a very huge shortage in labor. If you look at
22 the National Petroleum Council, companies trying to
23 meet the gasoline and diesel fuel regulations, what you
24 find is we don't have enough pipefitters, we don't have
25 -- there are only two or three companies left in the

1 world that make the vessels that you can use in
2 refineries, and so a lot of these smaller companies are
3 closing their refineries down because of the lack of an
4 ability to get the capital equipment and bring it in.
5 If anything, it's an oligopoly in terms of the supply
6 side, just to get the capacity to acquire these vessels
7 in Italy.

8 MR. WROBLEWSKI: Okay, thanks.

9 Bob?

10 MR. SLAUGHTER: One thing I'll mention, NPRA's
11 membership runs from the largest integrated majors to
12 the smallest refiners, and I think that America, you
13 know, has a strong policy interest in maintaining an
14 efficient, competitive and diverse refining industry,
15 and our mixed markets in which smaller players, despite
16 relative economies of scale, can compete and survive,
17 provided that some attention is being paid to them.
18 Getting back to the diesel sulfur role and kind of
19 signaling back to one of Tom's comments about the
20 impact of site changes and supply on a very inelastic
21 price curve and what happens to price, you know, there
22 is a major study that API was involved in on the diesel
23 sulfur rule that predicts essentially a 12 percent
24 nationwide shortfall in diesel fuel supplies during the
25 first year that that rule is implemented.

1 You know, I submit that that is going to have a
2 major impact on consumers, prices and getting there,
3 because it's an \$8 billion rule for this industry on
4 top of another \$8 billion rule to essentially reduce
5 sulfur in gasoline. It's going to have a tremendous
6 impact on the industry and on concentration in the
7 industry.

8 The other thing I want to mention, we've talked
9 about imports a couple times, and there was a
10 discussion about how difficult it will be to continue
11 to rely on imports, absolutely, because we are
12 basically choosing more or less American boutique fuel
13 formulations for gasoline but particularly for diesel
14 where they're the most stringent in the world, and so
15 imports are not going to be readily available for us,
16 and plus, in the case of diesel, we are going to
17 dramatically reduce domestic reduction.

18 One thing that you also need to look at in
19 terms of supply is that a lot of -- there's going to be
20 a lot more competition for imports, because there are a

1 Mexico is going to grow tremendously over the next few
2 years.

3 So, I think, you know, this delusion that if we
4 don't build refineries here -- more important,
5 definitely, is adding capacity to existing sites, that
6 somehow we are going to have sufficient demand to do
7 imports. We are not going to be able to match the
8 demand for these imports that's coming from other
9 societies that are growing more quickly than ours. So,
10 we may, in fact -- the product just may not be
11 available if we don't pay more attention to actually
12 growing domestic refining capacity.

13 MR. WROBLEWSKI: Okay, thank you.

14 Tyson?

15 MR. SLOCUM: Yeah, I just wanted to respond
16 very quickly to Jay's point about that a lot of the
17 refineries that were being shut down were actually
18 independents. Well, a lot of the reason that the
19 independent refineries were being shut down was because
20 the bigger boys in the market were muscling them out.
21 A lot of the documents that Senator Wyden acquired
22 through discovery in a lawsuit showed that the industry
23 were -- were engaging in supply sharing agreements, you
24 know, between Exxon and another large company to
25 specifically target smaller independent refineries, and

1 that's why a lot of them went under.

2 It was a deliberate attempt, using market
3 power, to shut down the independents, and I think that
4 that really speaks to a lot of the things that we at
5 Public Citizen and what Mark does, talk about some of
6 these effects of market power and market concentration,
7 because of all the continual approval of mergers and
8 what effect that has on the market and the rest of the
9 American economy.

10 MR. WROBLEWSKI: How does that square with -- I
11 think one of the slides that Phil Verleger showed was
12 the market share of independent refiners had actually
13 increased.

14 MR. VERLEGER: I didn't say independent
15 refiners. What I did is I -- market capitalization,
16 the refineries owned by market capitalization -- firms
17 with market capitalization of over \$100 billion had
18 shrunk from 50 to 36 percent. Now, the firms with
19 market capital of over \$100 billion would include,
20 after the merger, assuming approval, Texaco, Exxon
21 Mobil and BP-Shell. The next level would be companies
22 like Sun, ENRON-Hess and so on, and they have
23 increased, as have the firms with market capitalization
24 of 1 to 10, where you find firms like Valero and UDS.

25 Now, the reason this has happened is that three

1 companies, BP, Equilon-Motiva and to a lesser extent
2 Chevron has been selling refineries, and particularly
3 BP and Equilon-Motiva have jointly sold something like
4 one and a half to two million barrels a day of refining
5 capacity, and the buyers have been companies such as
6 TOSCO, Sohio, Valero, shipping assets to them.

7 Now, frankly I think that makes them a more
8 viable refining industry, because I think there is a
9 scale limitation. Just going back, as Murphy's pointed
10 out, you need to be at 150 or 200,000 barrels a day to
11 be able to afford to make these new investments, and
12 that means that it's very difficult for an
13 undercapitalized smaller firms, like Tesoro, to succeed
14 unless they essentially become captive and somehow or
15 another become a well-capitalized firm.

16 Now, Murphy and Tesoro and now Sun are all
17 effectively linking up with WalMart, there is going to
18 be a link-up I think with Costco, which means that they
19 are being independents, but they are being independents
20 who are essentially working on the balance sheet side
21 of companies with market capitalization that approaches
22 Exxon-Mobil. Now, I'm not sure what the competitive
23 implications are. I don't think we'll know for ten
24 years.

25 MR. WROBLEWSKI: Okay, thank you.

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1 John Felmy, you had a point you wanted to make.

2 MR. FELMY: Yes. We can argue forever about
3 why refineries closed. Some believe it's a conspiracy,
4 I believe it's markets. But the important thing going
5 forward from a public perspective is more importantly
6 what's going to happen over the next 20 years. We can
7 argue about the past, but over the next 20 years,
8 according to the Department of Energy, we are going to
9 need about 6 million barrels per day of petroleum
10 products, more than we consume right now. We consume
11 around 20. So, a 30 percent increase roughly.

12 Of that, according to the Department, of that,
13 about two-thirds is going to be imported. So, about 4
14 million, just roughly. So, that's if we have the right
15 fuel specifications so that we can actually get that
16 from abroad, as Bob had said, but the remaining roughly
17 2 million or 1.7 is going to be needed from additional
18 capacity of refineries. So, it's a very, very real
19 problem.

20 And in addition, they also say that we're going
21 to move from 93 percent of capacity to 95 percent,
22 which is another roughly 300,000. So, going forward is
23 really what we need to focus on. How are we going to
24 get this capacity? Is it going to be expanding
25 existing capacities with all the hurdles that Ed was

1 just talking about, or is it going to be new
2 refineries? I mean, that's the very real public
3 problem, because if we don't get that capacity, going
4 forward, just as Ed forecasts potential difficulties
5 six years from now, 20 years from now we will face the
6 same difficulties.

7 MR. WROBLEWSKI: What can be done to increase
8 refining capacity?

9 MR. MURPHY: There's a big National Petroleum
10 Council report of a couple hundred pages which has a
11 very, very detailed set of recommendations. The
12 permitting issue is one, as I mentioned, of what needs
13 to be done. It talks about what's happened, we've lost
14 excess refinery capacity, and we need to expand
15 refinery capacity, and we need to change government
16 regulations so that we're at least not hostile to
17 expanding refinery capacity, as they are right now.

18 MR. SLAUGHTER: Could I throw in something on
19 that, Michael?

20 MR. WROBLEWSKI: Sure.

21 MR. SLAUGHTER: Just quickly?

22 One of the things that you need, you certainly
23 need a reform and resource review program, which
24 basically governs major modifications that are made to
25 existing facilities like refineries, and right now, EPA

1 has reinterpreted all its rules to make it even more
2 difficult than before to add capacity at existing
3 sites. They also are questioning significant capacity
4 additions that were made pursuant to permits as old as
5 those granted in 1981 and 1985, which are making
6 substantial -- the owners of those permits are making
7 substantial contributions to today's refinery
8 production, and those are being questioned by EPA
9 retroactively. They were given with the assent of the
10 states, and companies are being fined for working with
11 the states in getting permits that were approved at the
12 time.

13 One thing I wanted to point out to you, I did
14 work with a few numbers last night. If you consider,
15 you know, whether a refinery is owned by an independent
16 or an integrated, depending on whether or not the
17 company has production, and that's a traditional rough
18 way you would determine who's an independent,
19 independents don't have production, they have to buy
20 crude to refine. The current numbers are basically --
21 and this is rough, but the later curve was done on the
22 back of a napkin, so -- but I came up with about 10.5
23 million barrels a day of integrated -- I'm sorry,
24 currently it's 9.2 million barrels per day of
25 integrated capacity and 7.1 million barrels a day of

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1 independent capacity.

2 So, you know, this goes back and forth. There
3 have been various shifts in the last few years. With
4 one pending merger, there may be another shift to the
5 integrator refiners' hands, but the independent portion
6 of the refining community, which is part of our
7 membership, is very strong today and I think would
8 react negatively to the comment that was made that they
9 were somehow victims of anticompetitive behavior,
10 because they actually have -- have been holding their
11 own quite well, and I think some of this is shown by
12 the pending Valero-UDS merger, which is a merger
13 between two major independent refiners, and if you look
14 at folks like Value Line, who's been looking at the
15 reasons for mergers over the last several years,
16 they're suggesting that this year we actually have seen
17 some people who may have merged on the basis that they
18 thought that, you know, in speculation refining assets
19 might be attractive.

20 That's not a major index of the reason for
21 these mergers at this point, but it seems to be
22 somewhat apparent, whereas in other years in the recent
23 past, people seem to have merged for the purpose of
24 reducing costs.

25 MR. WROBLEWSKI: Okay, thank you.

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1 Larry, you had a point you wanted to make.

2 MR. CHRETIEN: Yeah, two quick points. Whether
3 you're talking refinery capacity or whether you're
4 talking -- whether you're talking refinery capacity or
5 terminal operators, heating oil particularly, you don't
6 have to be Exxon/Mobil to be considered a strong
7 influence in a tight, small market at a critical point
8 with a seasonal commodity, and that's why I'm asking
9 FTC to focus on specific issues geographically. I know
10 it's often tough to watch over every refinery, every
11 terminal operator in the country regardless of product,
12 but I think we're hearing some information about some
13 hot spots we need to pay attention to.

14 I want to make the point that you don't have to
15 be Exxon-Mobil to screw consumers in New England with
16 respect to heating oil at a particular point in time.

17 The second point is I think what we're hearing
18 collectively is that in order to solve the economic
19 equation, whether it's through increasing capacity or
20 trying to relax air quality standards that we're all
21 trying to reach for, it's going to cost a lot of money,
22 and my group, considering the fact that we're
23 pro-consumer, not pro-consumption, we want to put on
24 the table energy efficiency far more than we've talked
25 about it today as a way to balance the equation so that

1 we can have our energy needs, even despite the fact
2 that refinery capacity is constrained.

3 MR. WROBLEWSKI: Thank you.

4 Ed, you had a point you wanted to mention.

5 MR. ROTHSCHILD: Well, I think there are
6 multiple reasons why refineries close, first of all.
7 Some of them are due to the fact that there was a
8 regulation that created refineries that should not have
9 been there in the first place, and we all agree with
10 that. Certainly independent refiners that were not in
11 it, that didn't have the cash flow that integrated
12 companies had, were much more constrained in their
13 ability to make environmental investments and other
14 investments to stay competitive and upgrade their
15 refineries. That probably explains a lot of the
16 closures.

17 But I don't think that we can disagree that
18 there are pressures from other companies in a market,
19 and California may be one place, and we may talk about
20 that, with some independent refineries, with good
21 refineries, with upgraded equipment, that went out of
22 business, and that may have been not just because of
23 market reasons but may have been more due to what
24 Senator Wyden found. So, there's a mixture.

25 I think the other thing in terms of refinery

1 expansion, you know, back seven years ago, in January
2 '94, EIA had utilization capacity of something on the
3 order of 16 million barrels a day. As we saw this
4 year, we're at 17.5. So, despite losing about 20
5 refineries that were shut down in that period and we
6 lost that capacity, the market for -- the refining and
7 distillation capacity grew by somewhere on the order of
8 a million and a half barrels a day.

9 Now, refineries can grow without losing
10 refineries. There is an explanation that existing
11 refineries are expanding at their sites. We also need
12 to understand the changing nature of the refining
13 business, which we really haven't talked about much,
14 which is that companies have much more sophisticated
15 equipment, turning lousy crude oil, heavy, sulfurous ,
16 smelly stinking substance into gasoline.

17 Now, refineries can take that kind of crude oil
18 and make 100 percent gasoline out of it if they choose
19 to do it. So, the ability to make higher-value
20 products in today's refineries has been greatly
21 expanded and enhanced if you look at the trends. So,
22 you have to take that into consideration, in addition
23 to the fact that we can operate at very high levels for
24 some period of time.

25 And one last point. I think we have to

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1 remember that over the years that no company has more
2 than 10 percent of the national gasoline market, what
3 do we do? It's irrelevant. Nobody buys gasoline -- I
4 don't shop in San Diego for my gasoline. I don't even
5 shop in Massachusetts for my gasoline. I shop close to
6 where I work and close to where I live. So, when you
7 look at gasoline markets, we really have to be looking
8 at metropolitan markets, and I really urge that when
9 any kind of analysis is done, each metropolitan market
10 must be examined on its own.

11 Within that market -- and I'll come back to
12 this, because we're running out of time -- you have to
13 look at how that market is structured. You can go
14 around this city where you can find gasoline for \$1.70
15 at one place and you can go two miles away and find it
16 at \$1.25. Now, that spread is not caused by higher
17 real estate values, it's not caused by higher
18 transportation costs, it's not caused by higher
19 automotive costs. There's something else going on, and
20 I leave that to the FTC staff to figure out.

21 MR. WROBLEWSKI: Thank you.

22 Glenn, do you want to comment on --

23 MR. JACKSON: I just want to say for the record
24 that I'll -- that the ethanol industry is significantly
25 expanding capacity to add volume in anticipation -- the

1 MTBE, for example, I think at last count it was like
2 something like 35 existing plants were being expanded
3 and something like 12 new plants were being
4 constructed. The state of California just recently
5 released a survey that found annual capacities
6 projected to come on line in the next couple years to
7 meet growing markets. So, there is tremendous growth
8 in the -- in the capacity there.

9 MR. WROBLEWSKI: Thank you.
10 Jon?

11 MR. RASMUSSEN: Yes, I would just like to
12 follow up on something John Slaughter said about
13 vertically integrated companies. He noticed the same
14 thing that we did. In fact, when EIA first developed a
15 criteria for drawing a matrix over the financial
16 reporting system, we had 26 companies, 24 vertically
17 integrated, and that was about 1979. Today, companies
18 that are reporting to us in the year 2000, nine are
19 vertically integrated. The rest are refiners who
20 probably have -- specialized refiners and specialized
21 upstream producers, and they -- they do have a company
22 which sells both gas and power energy services,
23 companies like ENRON, El Paso.

24 MR. WROBLEWSKI: Okay, thank you.

25 John, did you have one final comment? Okay, so

1 that was that. Mark, I'm sorry.

2 MR. COOPER: One observation, one of the first
3 jobs of an antitrust agency is to define market, and
4 then to suggest that it may be lightning politics if
5 markets are local.

6 The second point, also of concern is that the
7 minimum efficient scale for a refinery is 150,000 to
8 200,000 barrels today. That's obviously a lot smaller
9 than most refineries out there, so in theory, at that
10 level, it proves that competition is possible, but it
11 really asserts that the minimum efficient scale of
12 companies as much bigger than that, on the order of
13 Exxon-Mobil.

14 It seems to me that the FTC has to, in fact,
15 identify the markets and the minimum efficient scale
16 for each of these different segments, refining and
17 certainly gasoline stations and ask the question how
18 many competitors can there be in a market, because if
19 we conclude that you have to be Exxon-Mobil in order to
20 exist, then there's clearly not going to be a lot of
21 companies out there.

22 On the other hand, if the minimum efficient
23 scale is a lot smaller than that, we could have a lot
24 more competition, and that's sort of a fundamental
25 economic question that needs to be answered.

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1 MR. WROBLEWSKI: Okay, thank you.

2 Phil?

3 MR. VERLEGER: I think I should correct a
4 characterization when I said that Exxon-Mobil, \$100
5 million dollars, to scale, I do think we should pay
6 attention to the fact that capitalization that these
7 firms gets are large, but the expenses, as Bob
8 Slaughter mentioned ^ (sirens going by, cannot hear
9 anything).

10 MR. WROBLEWSKI: Okay, thank you. I think that
11 concludes our discussion for this morning. We will
12 reconvene at 2:00 this afternoon to discuss
13 transportation and retailing and marketing.

14 Thank you very much.

15 (Whereupon, at 12:15 p.m., a lunch recess was
16 taken.)

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AFTERNOON SESSION

(Resumed at 2:00 p.m.)

OVERVIEW ISSUES: TRANSPORTATION, MARKETING AND
DISSEMINATION

PRESENTERS:

MARY COLEMAN, PRINCIPAL. LECG LLC

JUSTINE HASTINGS, Assistant Professor, Dartmouth
College

DARRELL L. WILLIAMS, Principal, Economic Analysis Group

WILLIAM NISKANEN, Chairman, CATO Institute

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P R O C E E D I N G S

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3 MR. WROBLEWSKI: We would like to get started
4 for this afternoon's session which will focus on
5 transportation, marketing and distribution issues.

6 Before we start with the panel discussion we'll
7 have four presentations to discuss these issues. The
8 first will be my Dr. Mary Coleman. Dr. Coleman is a
9 principal with LECG LLC where she has been since 1993.
10 She's not a stranger to the FTC as she was on the staff
11 of the FTC's Bureau of Economics for several years
12 prior to joining LECG.

13 Dr. Coleman specializes in antitrust and
14 intellectual property litigation and regulatory
15 proceedings in petroleum and natural gas industries.
16 She's going to talk to us today about the many
17 challenges that the industry faces in the
18 transportation and in the oil industry.

19 Dr. Coleman, thank you.

20 DR. COLEMAN: Good afternoon. I'm going to
21 talk you about the substantial impact that oil
22 pipelines have on refined product prices.

23 Pipeline capacity constraints and pipeline

1 MS. DESANTI: Speak up in the microphone a
2 little bit. I think there are some people in the back
3 having trouble hearing. Thank you.

4 DR. COLEMAN: Sure. The linkage between
5 pipeline and products price is more predictable and
6 direct than that between crude oil pipelines and
7 refined product prices. Therefore, I'm going to focus
8 my presentation primarily on crude oil pipelines but
9 we'll talk briefly about crude pipelines.

10 Pipeline tariffs and restrictions on pipeline
11 shipments can have large effects on refined products
12 prices. Capacity constraints can arise due to the size
13 of the pipeline relative to demand for products on that
14 pipeline, seasonal demand fluctuations or unexpected
15 outages. Pipeline tariffs can also have an impact on
16 refined product prices. However, these tend to be
17 smaller as tariffs are a relatively small fraction of
18 the refined product prices.

19 When looking at the impact of product pipelines
20 on refined product price, it's important to consider
21 specific geographic areas and the importance of the
22 pipelines to those areas.

23 The importance of pipelines can vary
24 substantially across different geographic areas. In
25 some areas pipeline supply is very important to the

1 area as the geographic region either relies exclusively
2 on pipelines for refined products or the pipelines are
3 a substantial fraction of their supply.

4 In other areas pipelines have little importance
5 to the supply of refined products to the area, and
6 therefore have little impact on refined product
7 pricing.

8 When considering the effects of pipeline
9 capacity on refined product pipelines in a particular
10 geographic area, it's important to consider the extent
11 of excess refined products, supply capability in the
12 area and who are the marginal sources of supply to that
13 area.

14 Supply alternatives to consider are not only
15 the pipelines, all the pipelines that feed product into
16 the area, but potentially waterborne sources such as
17 barges and tankers and of course any local refineries
18 that might supply the area.

19 Limitations on pipeline supply can have
20 significant long-term effect on prices in areas where

1 not the marginal source of supply, limitations on the
2 pipeline's capacities or shipments are not likely to
3 have significant effects on refined products prices.

4 There are several ways in which pipeline supply
5 can be limited. One way may be that the capacity of
6 the pipeline itself is small relative to the potential
7 demand for products on that pipeline. For instance,
8 the pipeline may be one of the low cost sources of
9 supply to an area, but the potential capacity on that
10 pipeline is smaller than the demand in the area, and
11 some year rounded capacity tends to run pretty -- the
12 pipeline tends to run pretty much at capacity.

13 In some areas there are seasonal fluctuations
14 and demand for a refined product. Generally in the
15 summertime demand for gasoline is at a higher demand.
16 Therefore there may be higher demand for products
17 coming over the pipeline. In those cases it may be in
18 the summertime the pipeline runs full while in the
19 other months it does not.

20 That can cause differences in the relative
21 prices in the summertime versus other times of the year
22 when the pipeline is the marginal source of supply in
23 the non-peak months and other sources, potentially more
24 costly sources, are the marginal source supplied in the
25 summer months because the pipeline is running full.

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1 In addition, if there are major unexpected
2 outages in the pipeline, that can have short run but
3 very spectacular effect on prices as if the pipeline
4 goes out and it's a significant source of supply to the
5 area, that can cause a major disruption in short-term

1 their products.

2 Pipelines can also impact refined product
3 pricing. For that to happen the pipeline must be one
4 of the marginal sources of supply to the area or the
5 prices of its products are not going to be the ones
6 impacting the market pricing.

7 However, a pipeline tariff rate increase, even
8 if it were passed along into higher wholesale refined
9 product prices, is not likely to have a substantial
10 effect on those prices. Pipeline tariffs on average
11 are about one and a half cents per gallon while the
12 average rack price for wholesale price for unleaded
13 regular gasoline is about 100 cents per gallon or about
14 a dollar per gallon.

15 So a 10 percent increase in the price of a
16 tariff would only result in a .14 percent increase in a
17 wholesale refined product prices.

18 In addition, most refined product tariffs are
19 regulated by FERC and are subject to a price cap
20 mechanism that limits the amount by which pipelines can
21 increase their tariffs.

22 There are some pipelines that have obtained
23 cost based or market based rates, and in addition,
24 there are some proprietary pipelines who can charge
25 what they wish for the tariffs. However, by

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1 definition, by being a proprietary pipeline, the
2 pipeline is shipping product from its own refineries
3 and therefore has little incentive to increase its own
4 cost.

5 It's also important to consider the impact of
6 industry trends on the pipeline industry and on the
7 available capacity in that industry. The U.S.
8 petroleum refining industry has become more centralized
9 over time with more product being produced in the
10 coastal refineries and fewer product being produced by
11 inland refineries with many refineries shutting down.

12 As a result many of the coastal refineries are
13 seeking to ship product, more product, greater
14 distances and into new geographic areas. This is
15 putting pressure on existing pipeline systems causing
16 constraints on some pipelines and providing the
17 incentive for expansions of pipeline systems as well as
18 the construction of new pipelines.

19 There are several major pipeline projects
20 underway or completed that are bringing product from
21 the Gulf Coast to the mid continent to the midwest and
22 into the western and mountain states.

23 These expansions or new pipeline construction
24 can lower refined product prices as they either relieve
25 existing capacity constraints or bring low cost product

1 into areas formally served by higher cost refineries.

2 Delays in these constructions can, of course,
3 delay the benefits of bringing lower cost product to
4 these areas. Delays are generally caused by
5 environmental concerns. Constructing a new pipeline
6 does not require FERC approval, and right of ways have
7 generally been readily available, but in constructing
8 the pipeline environmental permits are needed and the
9 times has caused substantial delays in the opening of
10 pipelines.

11 Crude pipeline capacity and tariffs can have an
12 impact on refined product prices, although this tends
13 to be more limited and whether it will have an impact
14 is much more uncertain.

15 Many of the major refineries in the coastal
16 areas are not reliant on crude oil pipelines for
17 product, and it's really only the inland refineries
18 that rely heavily on crude pipelines for their product.

19 Even there, to the extent that crude pipelines
20 are important sources of supply for a region, whether a
21 capacity constraint on a particular pipeline would
22 impact refined product prices is uncertain because it
23 may not substantially impact crude prices in that area
24 and it also -- there are sometimes other sources of
25 refined product supply to the area other than the local

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1 sources who have alternative crude sources themselves.

2 In addition, there are several reasons to think
3 that crude capacity constraints are not likely to be
4 significant. There are substantial excess capacity on
5 many crude pipeline systems in the inland as refineries
6 have shut down and therefore put less constraints on
7 those systems.

8 In addition, many times the inland refineries
9 own the pipeline systems that serve their refineries,
10 and therefore have little incentive to increase their
11 own cost.

12 Finally there have been some increases in crude
13 pipeline capacity to serve the inland areas,
14 particularly from western Canada.

15 Thank you.

16 (Applause.)

17 MR. WROBLEWSKI: Thank you.

18 Next we'll hear from Justine Hastings. Dr.
19 Hastings is an assistant professor of economics at
20 Dartmouth University. She has written extensively on
21 vertical relationships in the gasoline industry and
22 their impact on competition.

23 We are pleased she could join us today to
24 discuss her two most recent papers in this area. Thank
25 you.

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1 DR. HASTINGS: We fixed it earlier. There it
2 is. Okay. All right.

3 So today I'm going to briefly summarize two
4 research papers that I've worked on over the past
5 couple years. Both papers focus on vertical
6 relationships between refiners and their retailers and
7 their effects on wholesale and retail gasoline prices.

8 The first paper I'm going to summarize is
9 entitled Vertical Relationships and Competition In
10 Retail Gasoline Markets: Empirical Evidence From
11 Contract Changes in Southern California.

12 This paper focuses on the vertical contracts
13 between the refiners and retailers and their impact on
14 retail prices.

15 As a motivation for the paper basically over
16 the past five years or so, West Coast metropolitan
17 markets have experienced substantially higher retail
18 gasoline prices than have markets in other regions of
19 the country.

20 Not only that, but there have been sustained
21 differences in the city average retail prices between
22 West Coast metropolitan areas above transportation
23 costs, so one often cited example is that San Diegoans,
24 if that's a word, people who live in San Diego, tend to
25 pay 5 to 15 cents more per gallon for gasoline on

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1 average than do people in Los Angeles.

2 So this upward or these trends in gasoline
3 prices that don't seem to be consistent with perfectly
4 competitive markets have sparked an intense political
5 debate over their potential causes.

6 Most of this debate has focused on regularly
7 the vertical contracts between refiners and retailers.
8 Why has the debate focused on that?

9 Well, politicians, consumer groups and industry
10 groups have noted corresponding increases in the market

1 station increases the market power of the refiners and
2 basically leads to less competitors in the marketplace,
3 and therefore higher prices. This is the claim. Okay?

4 Divorcement legislation basically prohibits
5 this type of vertical relationship between a refiner
6 and retailer so they can't directly set the retail
7 prices of their stations. What the refiners would be
8 forced to do instead is divest these stations to
9 dealers who have leased the property or own the
10 property and the dealer sets the retail price.

11 And then the idea is that this type of
12 divestiture divorcement would lead to lower average
13 retail prices and more competition at the retail level.

14 Another argument that was not focused on or has
15 not been focused on as much is the effect of
16 independent retailers, so this paper basically
17 documents that all of the increase in fully vertically
18 integrated stations over the mid to late 90s came from
19 integrated refiner's purchases of independent
20 retailers, okay?

21 So at the same time we're seeing this increase
22 in company-operated stations, we're seeing a decrease
23 in independent retailers. What is an independent
24 retailer and why do we think they might effect retail
25 prices?

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1 Basically an independent retailer is a guy who
2 owns his own station and can buy refined product or
3 wholesale gasoline from any refiner. Whoever has the
4 lowest price they can purchase from. They can't,
5 however, post a brand name on their station.

6 So an example on that would be Rotten Robbie or
7 Gas City. Anyone know of the one in D.C. area, an
8 independent station? FreeState, FreeState. So we know
9 what I'm talking about.

10 So because this independent guy can buy the
11 lowest price gasoline at wholesale and because they
12 can't post a product brand, they compete heavily on
13 price with little to no nonprice product
14 differentiation.

15 When they are replaced in the marketplace by
16 branded integrated stations of any vertical contract
17 type, price competition might be soft ended, and we
18 might expect to see a rise in local retail prices.

19 Okay. So the purpose of this study was to
20 essentially assess the effects of both company-operated
21 and independent stations on local retail prices. And
22 the analysis, the empirical analysis uses an event that
23 caused sharp changes in the market share of
24 independence and vertically integrated firms in order
25 to credibly identify their effects on local retail

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1 prices.

2 This event was the long-term lease of an
3 independent retail marketing chain called Thrifty Oil
4 Company by ARCO, Atlantic Richfield, now it's BP Amoco,
5 but at the time it was ARCO.

6 This basically provided a unique opportunity to
7 test how local competitors respond to changes in
8 contract types. Why does this provide such a great
9 opportunity? Thrifty stations were scattered all over
10 southern California, so using station level data for
11 Los Angeles and San Diego -- the other thing is Thrifty
12 stations were converted to integrated stations of
13 various contract types, fully integrated where the
14 refiner sets the retail price and those where the
15 retailer sets the retail price instead.

16 In fact, this one event accounts for almost all
17 of the increase in independent marketers over the late
18 1990s in southern California, so using station level
19 data, basically what happens is that I'm -- we're able,
20 this event provides us with a pre post comparison
21 across affected and unaffected markets to identify how
22 local prices are impacted by a change in the market
23 share of company-operated stations and a change in the
24 market share of independent retailers.

25 Okay. This research design, because we have an

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1 effect pre post periods and unaffected and affected
2 markets, we're able to have a credible identification
3 of both of these effects controlling for any other
4 factors that affect prices and the variables of
5 interest at the station level or the city level over
6 time.

7 The results indicate that independents have a
8 significant negative impact on retail prices, and that
9 company-operated stations have no significant impact on
10 prices.

11 What do I mean by that? Okay. Basically the
12 analysis compares markets that weren't impacted by the
13 loss of a Thrifty independent competitor against those
14 that were, and when we look at the price patterns we a
15 significant drop in the independent competitor, and the
16 average price went up by 5 cents a gallon compared to
17 those that were unaffected by this buy out.

18 That 5 cent a gallon increase was not dependent
19 on whether the subsequent station was a company-op or a
20 dealer run station. So the analysis provides no
21 evidence that company-ops prices over dealer run
22 stations.

23 What was important was that there was no longer
24 an independent unbranded guy selling gasoline in the
25 local market. The analysis also points out the

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1 purchase of these Thrifty stations by ARCO most likely
2 resulted in a consumer welfare loss.

3 What are the policy implications? First we
4 don't find support for divorcement legislation, okay?
5 Company-ops and lessee dealers, another way to look at
6 this is a dealer relationship with the refiner. The
7 refiner has enough instruments in the contract to
8 sufficiently set the retail price.

9 In other words, it could be the fact that
10 refiners are just really good at designing contracts
11 which we hope they would be, okay? Independent
12 retailer are important for competition is that -- I
13 think this is an important part of the paper or most
14 important part of the paper.

15 What does this paper say for merger policy?
16 Basically the FTC did not consider looking at this
17 acquisition. Why? Why wouldn't they consider it? The
18 reason is that Thrifty only had about 250 stations out
19 of over 4,000, so if we do a traditional approach to
20 why we should allow a merger to go through, an
21 acquisition to go through, we look at a simple market
22 concentration change at the retail level, we would see
23 there is no market concentration change from 200
24 stations changing hands out of 4,000 total.

25 However, Thrifty stations comprise about

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1 one-third of the independent marketers in southern
2 California, okay? So given that this analysis suggests
3 we should be using an alternative to the Herfendal
4 Hirschman (phonetic) index, which only looks at
5 competition, we should be including vertical components
6 in merger policy as well.

7 The second paper is going to point out the same
8 thing. The second paper I would like to summarize,
9 it's entitled Vertical Integration in Gasoline Supply:
10 An Empirical Test of Raising Rival's Costs. This is
11 joint work by professor Gilbert at U.C. Berkeley.

12 Motivation for this paper basically came from
13 the same thing. You see similar trends in wholesale
14 gasoline prices so there are sustained and substantial
15 differences in wholesale prices at distribution racks
16 across the country, and when we're looking at wholesale
17 gasoline prices in this study we're going to be looking
18 at unregulated wholesale gasoline, okay?

19 These wholesale price differences are larger
20 than transportation cost. If unbranded gasoline is a
21 homogeneous product, and it is, we would assume that
22 the competitive market should equate the price to the
23 cost of production and that the prices between markets
24 should not exceed transportation costs. Otherwise
25 there's an arbitrage situation that's not being taken

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1 advantage of.

2 There are some potential sources to explain
3 this wholesale price variation. One is environmental
4 regulations and fuel requirements which was brought up
5 quite a bit this morning. So there are different types
6 of gasoline requirements in different regions of the
7 country, and let me explain some of the differences in
8 wholesale prices but certainly not all of them.

9 One counter example to that argument is that if
10 you look within California where every distribution
11 rack has CARB gasoline, you will see differences in the
12 rack price for unbranded gasoline that are much higher
13 than the transportation costs between the two racks,
14 and those differences don't get competed away.

15 A third explanation which this paper focuses on
16 is vertical market structure, wholesale suppliers
17 degree of integration into retail markets and their
18 incentive to raise rival's case.

19 What is raising rival's cost? Basically the
20 idea is if you are an Acme Refinery and you have Acme
21 retail stations and you sell unbranded gasoline to
22 independents, if those independents compete with your
23 retail station, you have an incentive to try to raise
24 the wholesale price to them, if you can.

25 Why? Because if you raise their wholesale

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1 cost, they have to raise their retail price in order to
2 cover their cost. If they raise their retail price,
3 what can you do at your retail station? Raise your
4 retail price, but your costs haven't gone up so
5 therefore your retail profit margin has just increased
6 by this action.

7 So what we would like to do is take a look at
8 do we see evidence of raising rival's costs in
9 wholesale gasoline markets, again we're going to look
10 at unbranded prices and we look at an event that again
11 provides discrete and differential changes in the
12 downstream competition with independent retailers.
13 This event was Tosco Corporation's purchase of Unocal's
14 West Coast refining and marketing assets.

15 Basically what happened is that Tosco had a
16 very low market, retail market share in many markets
17 where Unocal had a very large retail market share.
18 When Tosco purchased the refineries and retail stations
19 from Unocal, Tosco experienced various increases in
20 their downstream competition with independent retailers
21 after the merger, okay?

22 So now they have this incentive to perhaps
23 change the price of unbranded gasoline that they're
24 going to charge these independent retailers, so again
25 we have Tosco company specific unbranded wholesale

1 prices at each distribution rack for a year before and
2 a year and a half after the merger, and when what we
3 find is the wholesale price of gasoline to independent
4 competitors increased in proportion to the degree of
5 downstream competition with independent retailers after
6 the merger, so this event study provides strong
7 evidence supporting refiners' incentive to raise
8 rival's costs.

9 We then turn in the same paper to look at a
10 broad panel analysis, so basically we have this great
11 event study that allows us to very carefully and
12 seriously identify the raising rival's cost incentive
13 and impact on prices, and now we're going to look at
14 something that econometrically isn't as desirable.

15 The answer looks at, examines very interesting
16 questions, so for the period '93 to '97 there is a
17 large wave of mergers in the United States. We have
18 detailed data for 26 metropolitan areas on the West
19 Coast, the Rocky Mountain and Gulf Coast states. These
20 waves of mergers generated significant changes in the
21 number of competitors at each rack and also at their
22 downstream -- at their downstream market share.

23 So when we take a look and we do an econometric
24 estimate, a regression analysis, we find evidence
25 consistent with the event study, namely that wholesale

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1 prices vary positively with the extent of wholesalers'
2 integration into downstream market. We also find the
3 known effect that wholesale prices are -- or that the
4 more classical effect that wholesale prices are
5 negatively correlated with the number of wholesale
6 suppliers.

7 So more guys competing at the rack means prices
8 are lower, okay? And this is what current merger
9 policy is aimed at looking at, horizontal
10 concentration. However, the really interesting thing
11 is that the effect from raising rival's costs is as
12 strong as the horizontal concentration effect.

13 So we make some comparisons in the paper you
14 can look at that show, How can we compare the
15 magnitudes of an increase in vertical degree of
16 vertical integration and a decrease in the number of
17 suppliers, and they're very comparable.

18 So in conclusion, basically we find in both
19 papers that there is a significant vertical component
20 to horizontal mergers that should be considered an
21 antitrust policy. I can give a concrete example.

22 Suppose it was a few years ago and Exxon and
23 Mobil were deciding to merge, and the FTC had concerns
24 about the effect in retail price -- on retail prices
25 and retail concentration, wholesale prices and

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1 wholesale concentration on the West Coast. Perhaps the
2 FTC might decide to require them to divest a refinery
3 and retail stations.

4 These papers would suggest that the policy to
5 follow that would have the most impact on increasing
6 concentration would be to divest the refineries
7 separately and the retail stations to independent
8 retailers, okay?

9 Thank you very much.

10 (Applause.)

11 MR. WROBLEWSKI: Thank you. Next we'll here
12 from Professor Williams. He's an economics professor
13 at UCLA, department of economics economic and vice
14 president of Economic Analysis LLC.

15 Professor Williams has conducted research on
16 industrial organizations, contractual relationships
17 between firms and the regulation of markets. His
18 litigation consulting experience is in a number of
19 industries including the petroleum areas.

20 We are happy that he can join us here this
21 afternoon to discuss a variety of state laws and
22 regulations that can affect the price of refined
23 petroleum profits.

24 Professor Williams?

25 PROFESSOR WILLIAMS: Thank you. Good

1 afternoon. Can you hear me in the back? Good.

2 I was asked to discuss regulatory factors that
3 are likely to have an effect on gasoline prices, and
4 I'll be focusing on regulations that are likely to
5 affect retail gasoline prices, some of which -- some of
6 the regulations that I'm about to discuss will affect
7 them in an indirect way, but affect them nonetheless.

8 Let me start out by saying that there are two
9 economic characteristics of retail markets that are
10 important for assessing the effect of these regulations
11 on prices.

12 The first is what I'll call the incentive
13 problem which Justine Hastings just talked about a bit,
14 and basically the incentive problem is the following:
15 That in a vertical relationship between the
16 manufacturer and their dealer downstream, their
17 downstream retail dealer of gasoline, there is an
18 incentive for the dealer to impose a margin on gasoline
19 that is higher than what is in the interest of the
20 manufacturer, and economists just call this the double
21 markup or the double marginalization problem.

22 That basic vertical problem is the reason that
23 we observe vertical constraints in many other
24 circumstances, and it is also the reason why we
25 typically observe the empirical irregularity that

1 company-operated stations charge lower prices than do
2 lessee dealer stations or contract stations, which I
3 think is a result consistent with what Justine Hastings
4 just reported.

5 So this vertical problem or this vertical
6 externality, if you will, implies that the contractual
7 relations between the manufacturer and the downstream
8 dealer is very important and likely to have effect on
9 the level of retail pricing downstream.

10 Another economic characteristic of the retail
11 market that is important and interacts with regulations
12 to determine retail price is the fact that retail
13 markets, the geographic markets, tend to be relatively
14 small, and the reason that this occurs is because
15 consumers face high switching costs relative to what
16 the savings are from going to another station.

17 That's a high volutin way of saying when you
18 drive down the street in your neighborhood, you
19 typically see a lot of variation in prices across
20 stations. You can drive a block, and there could be a
21 two, three, four cents difference in retail prices for
22 exactly the same brand, and if consumers were
23 willing -- saw those two stations as perfect
24 substitutes, that difference could not exist.

25 So we know the mere existence of price

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1 differences downstream among the same brand is
2 consistent, and there's been economic evidence to
3 support this, that consumer switching costs are
4 important in determining retail prices of gasoline.

5 So given those two economic characteristics,
6 let's take a look at a few regulations that I believe
7 are likely to have an important effect on retail prices
8 and are worthy of consideration by the FTC in their
9 study.

10 The first set of statutes is the Petroleum
11 Marketing Practices Act and Divorcement Statutes. The
12 reason these -- the reason these statutes are important
13 is they indirectly affect prices in the following way:
14 I just mentioned that one of the problems that the
15 manufacturer faces is in how they control the price
16 setting behavior of the dealer downstream when they
17 have an incentive to place a higher margin on the
18 retail gasoline is in the manufacturer's interest, and
19 obviously that is in the consumer's interest as well.

20 The Petroleum Marketing Practices Act, the
21 legislative intent of which is to prevent major oil
22 companies from exerting control over price through
23 termination of dealers, in a indirect way can have just
24 the opposite effect. To the extent that the PMPA leads
25 to an inefficient distribution of contracts, that is

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1 that there are too many lessee dealers or contract
2 dealers downstream relative to company-operated
3 dealers, then it will tend to make retail prices at --
4 the retail prices of gasoline higher on average than
5 they otherwise would be.

6 Divorcement policies obviously have the same
7 effect to the effect they lead to an inefficient
8 distribution of contracts. Why would they lead to an
9 inefficient distribution?

10 Quite simply because to the extent that there
11 are constraints on the refiner at all in setting
12 their -- in choosing the contractual forms for
13 particular stations, then that could have an effect on
14 price.

15 Now, of course there could be other instruments
16 that the manufacturer could use, but if those
17 instruments are perfect substitutes for contractual
18 form, then again there will be a significant effect on
19 price.

20 And in effect economic studies of divorcement
21 induced changes in the contractual form have shown
22 their retail prices have increased as a result of
23 government induced changes in the contractual form, and
24 I believe Mike Vita has a study with similar results.

25 The other -- in addition to the Petroleum

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1 Marketing Practices Act and Divorcement Statutes, the
2 other area of regulatory concern is sales below cost
3 statutes or below cost sales statutes which exists in
4 about 11 states, and those states typically put some
5 minimum on what the retail margin can be. It sets a
6 minimum retail margin downstream.

7 These statutes obviously tend to put a
8 constraint on how low the price can be downstream.
9 They're typically justified because it is believed that
10 to be company operated stations may even sell gasoline
11 below costs, which most economists will tell you is a
12 pretty incredible claim.

13 But the fact of the matter is company-operated
14 stations tend to have lower costs even though they're
15 still -- lower prices even though they're still above
16 cost.

17 The below cost sales statutes are problematic
18 not only because they require a minimum margin, because
19 they also affect one of the instruments that
20 manufacturers have to control or to put downward
21 pressure on the retail price and therefore resolve this
22 incentive problem that I described earlier.

23 One way manufacturers do that is through dual
24 distribution, that is by locating a company-operated
25 station in the vicinity of a lessee dealer, the

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1 competition from that station can prevent the lessee
2 dealer from adding this additional markup.

3 These sales below cost statutes tend to prevent
4 the use of that tool to some extent and therefore can
5 lead to higher retail prices.

6 Then the final regulatory issue that I want to
7 raise are so-called zoning laws. These are laws that
8 restrict the number of gasoline stations. These are
9 quite prominent in California, for example, and in San
10 Francisco and in San Diego, and usually they are
11 attributed in part to the reason why average prices of
12 retail gasoline are a lot higher in San Diego and San
13 Francisco than they are in Los Angeles.

14 In Los Angeles the number and density of retail
15 stations is considerably higher than it is in those

1 savings, and these zoning restriction reduce the
2 density of stations, and therefore it can lead to
3 higher retail prices on average.

4 And in fact there have been economic studies
5 which were not looking at this issue in particular but
6 have consistently found that density of stations leads
7 to lower retail prices.

8 Then finally I want to mention another
9 regulation, which we're all aware of which are
10 environmental restrictions, for example, in Los
11 Angeles, in California that call for reformulated
12 gasoline, and it is generally accepted and commonly
13 known that these regulations tend to add something
14 around 5 cents per gallon to the retail prices of
15 gasoline.

16 So just to sum up, these regulatory
17 restrictions tend to lead to higher average prices
18 either because they impair the manufacturer's ability
19 to have an efficient mix of contracts downstream,
20 either through the PMPA or Divorcement Statutes or
21 because below cost statutes impose minimum margins
22 downstream or finally, because zoning restrictions
23 reduce the density of stations and therefore the degree
24 of competition within these small geographic markets
25 that we typically observe in retail gasoline markets.

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1 Thank you.

2 (Applause.)

3 MR. WROBLEWSKI: Our final speaker in this over
4 saying is William Niskanen. Mr. Niskanen is the
5 chairman of CATO Institute, a position he's held since
6 1995. The CATO Institute is a non-partisan public
7 policy research foundation headquartered here in
8 Washington, D.C.

9 Prior to joining the CATO Institute, Mr.
10 Niskanen was acting chairman of President Reagan
11 Council of Economic Advisers. He is a noted expert in
12 many policy areas including defense, trade and
13 regulation.

14 We are pleased to have him here this afternoon
15 to discuss regulatory issues facing the petroleum
16 industry.

17 MR. NISKANEN: My voice may sound like death
18 warmed over, but I assure you it's not a problem of the
19 microphone.

20 May I first say that my views are not
21 necessarily consistent with that of any of CATO's many
22 sponsors or members. Two oil companies are among our
23 many sponsors, but their valued contributions are a
24 small percent of our total funding.

25 My views, however, are strongly influenced by

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1 the valued contributions of the staff and others that
2 write for CATO.

3 My remarks focus on the primary conditions that
4 affect the retail margin for gasoline first on a
5 routine basis and then those that have especially
6 affected this market in recent years. Gasoline prices
7 have always been unusually variable over time primarily
8 because of the low elasticity of demand. This makes
9 retail prices unusually volatile with respect to supply
10 changes.

11 A 10 percent reduction in supply, for example,
12 often leads to a 50 percent increase in the retail
13 price after tax in the short run and a 25 percent
14 increase in the long run. In turn this makes retail
15 prices especially volatile with respect to the relative
16 level of inventories which have been unusually low in
17 recent years.

18 Gasoline prices have always been unusually
19 variable over space for several reasons. Retail prices
20 have always varied substantially over space as a
21 function of land rights, higher in urban areas than
22 rural areas, higher in domestic -- in high density
23 cities than in low density cities, and the
24 transportation costs of moving gasoline among these
25 stations is irrelevant.

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1 The relative transportation cost is the cost of
2 moving your car from one station to another station to
3 get your gasoline, not the price of moving the gasoline
4 from one station to the other.

5 Second, state excise taxes are very
6 substantially, from 7 and a half cents a gallon in
7 Georgia to 36 cents a gallon in Connecticut, both in
8 1998. I don't have more recent data.

9 The third major change is a new development
10 which is the segmentation of the gasoline market by
11 region, a consequence of the proliferation of the
12 gasoline types required by environmental regulation.

13 This has both raised the relative price in some
14 states, and it's increased the vulnerability of prices
15 in all states to supply disruptions. Since we no
16 longer have a gasoline market, we have a dozen or so
17 relative, different brands -- not different types of
18 gasoline, but with different physical characteristics
19 that are not substitutes for each other and cannot
20 be -- you cannot meet a demand in the midwest by
21 gasoline from somewhere else in the country as a rule.

22 Now, what to do? For federal officials I
23 suggest their first obligation is always to make sure
24 that they are not part of the problem.

25 In that regard let me read the conclusion by my

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1 CATO colleague Jerry Taylor in July 2000. Of the
2 approximately \$1 per gallon increase in gasoline prices
3 that Milwaukee Chicago area drivers experienced over
4 the past year, about 50 cents can be attributed to OPAC
5 production decisions. 25 cents can be attributed to
6 unfortunate pipeline breaks during particularly
7 inopportune times, and 25 cents can be attributed to
8 the market complications imposed by the reformulated
9 gasoline mandate originally imposed in the 1990 Clean
10 Air Act and put into place this June. That means last
11 June.

12 Congress would be best advised to eliminate
13 this reformulated gasoline mandate in its entirety.
14 Not only has it been responsible for an albeit largely
15 temporary 25 cent per gallon increase in gasoline
16 prices, it accomplishes absolutely nothing in the way
17 of air quality. The fuel injection systems that
18 replaced conventional carburetors in 1983, since 1983,
19 include computerized oxygen sensors to determine when
20 the fuel air mix is optimized from an emissions
21 perspective.

22 By automatically mixing gasoline in such a way
23 as to minimize carbon dioxide emissions, fuel injectors
24 accomplish through technology what the mandated
25 reformulated gasoline attempts to accomplish through

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1 fuel design.

2 Now, Eric Stork, the head of the EPA's Mobil
3 Source Air Pollution Control Program from 1970 through
4 1978, told the New York Times recently that
5 reformulated gasoline was a good idea 30 years ago, but
6 in cars built in 1983 or later, he says, the fuel is
7 "obsolete and pointless."

8 Second, Congress should also demand that
9 environmental regulations shift through command and
10 control basis to a performance based regime. Federal
11 agencies must still require that no more than X amount
12 of this or that pollutant comes from the facility or
13 gasoline blend, but they should allow plant managers to
14 undertake whatever actions they wish to meet this
15 performance standard.

16 As long as companies are required to verify
17 that their emissions and allow public verification of
18 their findings, such a regulatory reform would
19 dramatically reduce regulatory burdens on refiners
20 while maintaining current strict air quality standards.

21 And third, Congress should force regulatory
22 changes, one to expedite the issuance of federal air
23 permission permits and to reconsider the onslaught of
24 new fuel recipe mandates that are in the hopper.

1 Council, that's an official advisory board to the
2 secretary of energy, warned "these mandates threaten to
3 replay the dislocations that hit the Milwaukee Chicago
4 market and other markets on and off for years to come."

5 I think the major implication of that for the
6 Federal Trade Commission is that you should initiate a
7 participation in the review of proposed regulations
8 that is conducted in Office of Management and Budget
9 and make sure that your analysis of these regulations
10 coming from whatever source is a part of the
11 deliberations that lead to the decisions by OMB.

12 Finally, let me conclude with a note of
13 optimism. Government hearings and reports on price
14 changes in a specific industry are almost always a
15 lagging indicator of the conditions that lead to these
16 changes.

17 In this case, the future price of oil is now
18 substantially lower than the spot price. The retail
19 spot price of gasoline has already peaked. Several
20 weeks ago before this hearing I filled my SUV in Prince
21 Anne, Maryland, at 1.18.9. Now is the time to focus on
22 future problems, not yesterday's price spikes.

23 Thank you.

24 (Applause.)

25

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1 PANEL DISCUSSION: PIPELINE TRANSPORTATION, MARKETING
2 AND DISTRIBUTION

3

4 FTC MEMBERS:

5 SUSAN S. DESANTI

6 MICHAEL WROBLEWSKI

7 NICK FRANCZYK

8 MELVIN ORLANS

9 CHRIS TAYLOR

10 MIKE VITA

11

12 PANEL MEMBERS:

13 ROBERT S. BASSMAN

14 THOMAS G. BROWN

15 MARY COLEMAN

16 R. TIMOTHY COLUMBUS

17 BENJAMIN S. COOPER

18 MARK N. COOPER

19 JUSTINE HASTINGS

20 JAY MCKEEMAN

21 WILLIAM NISKANEN

22 TODD SPENCER

23 PHILIP VERLEGER

24 DARRELL WILLIAMS

25

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1 MS. DESANTI: Thank you very much. We
2 certainly have presentations that are going to give us
3 a lot to think about and discuss in this next hour and
4 a half.

5 To begin let me note that we will run this
6 discussion panel in the same way that we did the
7 morning's discussion panel. That is, if you have a
8 point you would like to make and you would like to
9 speak, please take your name tent and turn it up on its
10 side, and that way we can keep the discussion somewhat
11 orderly.

12 I'm going to begin by going around and
13 introducing all of our panelists as we did in the
14 morning, and then we'll handle the issues in order
15 starting with pipeline and then moving into marketing
16 and distribution and some of the regulatory issues that
17 Darrell Williams and Bill Niskanen have raised for us.

18 So, to begin on my far right, your left, is Bob
19 Bassman. Bob is managing principle at Bassman,
20 Mitchell and Alfano, chartered, and counsel to the
21 Petroleum Marketer's Association of America, which is a
22 federation of 42 state and regional associations
23 representing over 7,000 independent marketers of
24 petroleum products throughout the nation.

25 Next to him is Jay McKeeman. Jay is executive

1 vice president of the California Independent Oil
2 Marketers Association. That association is a nonprofit
3 state wide association of independent wholesale and
4 retail marketers of gasoline, diesel fuel, jet fuel,
5 lubricating oil and other petroleum and energy
6 products.

7 Next to him is Tom Brown. Tom is marketing
8 issues manager for the downstream industry segment of
9 the American Petroleum Institute and has been involved
10 with these issues for many, many years.

11 Next comes Benjamin Cooper who is executive
12 director of the Association of Oil Pipelines and is
13 appearing on behalf of that association and also the
14 Oil Pipeline Company Members of the American Petroleum
15 Institution. The Association of Oil Pipelines is an
16 unincorporated trade association representing 58 common
17 carrier oil pipeline companies.

18 Next to him is Phil Verleger who we heard from
19 this morning, once again an economist and consultant,
20 president PKVerleger LLC and senior advisor for The
21 Brattle Group.

22 Next to him is Dr. Mark Cooper, who we also
23 heard from this morning, director of research of the
24 Consumer Federation of America and president of
25 Citizens Research, an independent consulting firm.

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1 Around going around the corner we have Tim
2 Columbus, who is a member of Collier, Shannon, Scott,
3 PLLC, and a counsel for the Society of Independent
4 Gasoline Marketers of America, SIGMA, which is a
5 national trade association representing independent
6 chain retailers and marketers of motor fuel both
7 branded and unbranded.

8 Next, we have FTC staff Nick Franczyk from the
9 midwest region, and Mel Orlans from the general
10 counsel's office, both of whom were key members of the
11 team that put together the Midwest Pricing
12 Investigation Report. Michael Wroblewski you know.

13 Next to me and on my left, and to the right for
14 you, is Chris Taylor and Mike Vita of the Bureau of
15 Economics. Both of them have been significantly
16 involved with these issues, and Mike in particular, as
17 Darrell mentioned, has a paper on divorcement that is
18 well known, quite well known and very well regarded.

19 Then we come to the people who have already
20 been introduced this afternoon, and finally when you go
21 down the row past Bill Niskanen, Darrell Williams and
22 Mary Coleman, we come to Todd Spencer, who is the
23 executive vice president of the Owner Operator
24 Independent Drivers Association. He began his career
25 in trucking in 1974, and in 1992 he was elected to his

1 current position as executive vice president, and then
2 finally on the end as you know we have Justine
3 Hastings.

4 I would like to start with the pipeline issues.
5 We'll try work through the issues in the same order
6 that the speakers worked through them, and I have some
7 follow up questions for you, Ben, or for you, Mary, or
8 for anyone else who wants to jump in.

9 You mentioned, Mary, that there have been
10 instances of pipeline breaks, and that's certainly
11 something that we've seen in the reports.

12 Is there an issue about the pipeline
13 infrastructure and its age and how soon it may need
14 replacement in any significant degree?

15 DR. COLEMAN: In general, no. As pipeline
16 expansions and introduction of new pipelines or
17 conversion of sometimes crude pipelines or gas
18 pipelines to refined products service, that often these
19 older pipelines are still in very good shape and don't
20 require substantial renovation in the segments that
21 they still want to use.

22 At times they replace the pipe more because
23 they want to expand the size of the pipeline than
24 because of the problems with the pipeline itself.

25 Of course there are instances where there are

1 old pipelines that need to be replaced, but because of
2 the nature of the product flowing through the pipeline,
3 it's not an abrasive product, that actually the
4 pipelines last for many, many years without substantial
5 problems as a general matter.

6 MS. DESANTI: And I have a question about --
7 maybe Mr. Cooper, you could speak to this issue. Just
8 for the clarity of the record, your organization
9 represents common carrier pipelines, and I'm wondering
10 if you could give us a short description of the extent
11 of that pipeline system, the common carrier pipeline
12 system, and to what extent are pipelines common carrier
13 versus proprietary pipelines do you have a sense of
14 that?

15 MR. BENJAMIN COOPER: All the companies in my
16 association are common carriers. I don't have
17 proprietary pipelines in my system, so I can't really
18 comment on that, and they're regulated by the Federal
19 Energy Regulatory Commission under the Interstate
20 Commerce Act and it says tariffs must be just and
21 reasonable and not show undue discrimination.

22 And programs are typically provide as you heard
23 earlier for about a two cent a gallon to 1, 2, 3, 4
24 cent a gallon tariff for shipping so most of the
25 pipelines don't own the product. It goes to shipping

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1 for third parties.

2 And the FERC relies very heavily on protests
3 from the shippers, competing shippers to -- FERC of
4 course regulates natural gas transmission, electric
5 transmission, hydroelectrical power and oil pipelines
6 just to give you a sense of the magnitude of the
7 effort. I think the FERC budget is about \$160 million.
8 About 3 million goes into the oil pipeline regulation.

9 MS. DESANTI: We heard a lot of discussion this
10 morning about the reformulated gasoline, the boutique
11 fuels issued at the refinery level, and I'm wondering
12 if we -- if there any effects at the pipeline level?
13 Are there issues that come up because you have
14 different types of fuels? I think Mr. Niskanen said
15 something about 16 or 18 different types of fuels that
16 may need to be transported.

17 Do those raise issues for pipeline
18 transportation? I'll throw this out to anybody.

19 DR. COLEMAN: I'll answer and then leave time
20 for others to as well. Yes, they can. When you're
21 shipping product on the pipeline you have to ship it in
22 a way to keep of course the different products
23 separated, and to the extent you have more different
24 products to ship then you can reduce the effective
25 capacity of the pipeline and therefore also increase

1 the cost of keeping track and making sure that the
2 pipeline is functioning properly.

3 So, yes, the different -- the different
4 formulations can have a significant issue. It also can
5 have an issue to the extent that a pipeline serving in
6 the area in, some months where they may have plentiful
7 sources of the alternatives, of gasoline that's okay
8 for that area, but it may be that at other times of the
9 year when the specs kick in, that pipeline may not be
10 able to supply as much if the refineries at the other
11 end are not producing the particular type of gasoline
12 that that area requires.

13 MR. BENJAMIN COOPER: Let me underline, this is
14 a substantial issue, and it's both an issue as to what
15 the situation is today and even more an issue because
16 it's changing very rapidly. 16 is a small number of
17 fuels that you might have in your pipeline. You may
18 have 40, 50, a hundred different fuels that you keep in
19 your pipeline, not all because of the government,
20 sometimes your customer want it.

21 A lot of people don't focus on the fact that
22 they're not separate pipes you run. It's like a train,
23 different cars in the train, two football fields of
24 regular grade gasoline followed by three football field
25 length of diesel followed by one football field length

1 of jet fuel and military followed by jet fuel for the
2 jets that you fly in followed by -- so on and so forth.

3 And as this gets more complicates, it gets more
4 complicated. You have to have more tankage, and you
5 have to keep track of these things and pulling them off
6 when -- and every pipeline doesn't just go from A to B.
7 It goes from A to B 1, B 2, B 3, B 4, so you pull this
8 stuff off in different places, and it has to be a place
9 for it to go, and it has to go to a place where it
10 doesn't get mixed up with other stuff.

11 And as this -- as the proliferation of fuels
12 increases, the management of it becomes a bigger
13 problem, and I think Mary summarized it in a very nice
14 way, reduces the capacity of the pipeline. You just
15 don't get as much out the other end as fast as it goes
16 in the front end.

17 And it's something that I guess our industry
18 doesn't particularly have a position on this. I
19 suppose you could take the attitude that if you want to
20 make life more complicated, you'll just have to pay for
21 it, but on the other hand you can get to a point where
22 this gets hard to do, and you might question whether
23 there's a benefit or the cost of this is getting to be
24 where it's exceeding that.

25 MS. DESANTI: Is this an issue that's going to

1 lead to a need for an expansion of pipeline capacity?

2 MR. BENJAMIN COOPER: Yes, I think we would
3 argue that the pipeline system faces a number of
4 challenges that should -- that indicate there ought to
5 be more pipeline today, and you see that out in the
6 market. You see people trying to build. There's a
7 number of pipeline projects being proposed now to do a
8 number of things. You need to have different pipeline
9 configuration because the pipelines don't move like
10 trucks. They can't go wherever you want. They go
11 where they're laid down.

12 So if the demand changes regionally, which it
13 is doing, there's a lot of growth in Florida. There's
14 a lot of growth in places like Las Vegas, Salt Lake
15 City, in Denver. There's, surprise to me, a lot of
16 growth going out petroleum demand through the old rust
17 belt, and you see people trying to build pipelines and
18 go into those areas. That happens even independently
19 of this proliferation of fuels.

20 Also as the demands or quality of fuel
21 increases, that means refineries have to make upgrades
22 to supply this higher quality fuel, and not every
23 refinery can do that, so what happens is you'll see
24 refineries go out of business, and then somebody else
25 has got to bring the product to that area, and that's

1 happening.

2 So there are a number of reasons why you need
3 to on the product side have pipelines that go different
4 places or have more capacity and go to places they used
5 to be going and less to others, and that's happened.

6 MS. DESANTI: Are there any other pipeline
7 issues that anybody else wants to bring up because if

1 is on the wall on that, however. And the terminals and
2 the pipeline people are waiting until they've got firm
3 commitments and obligations by the major oil companies
4 to use the ethanol storage.

5 But I think the main point is is that ethanol
6 is going to add another factor into pipeline movements
7 and into storage and terminals that really needs to be
8 considered.

9 I guess one other thing that while I'm on the
10 ethanol band wagon, one thing that I would like the
11 Commission to take a look at is the cost concentration
12 of market -- in the marketing of ethanol.

13 I think if you take a look at the competitive
14 forces in the ethanol -- in the marketing of ethanol,
15 you would find a very significant concentration, a
16 market force there, and it might be something worth
17 looking at.

18 MS. DESANTI: Thank you. Tim?

19 MR. COLUMBUS: It depends for part of you and
20 certainly for the rest of you. We're looking
21 supposedly in 2010, no later, starting 2006, 15 parts
22 per million diesel fuel. 15 parts per million to the
23 best of my knowledge is significantly lower than
24 anything else that goes through members pipes.

25 And it might be worthwhile if Ben would be

1 comfortable to postulate a little bit about what that
2 means in terms of just logistics when you can't run 15
3 parts per million fuel right behind jet fuel. What
4 happens to that product and what kind of interface do
5 you think you should get?

6 MR. BENJAMIN COOPER: I think what we should
7 do, what the Commission should do, if you want to delve
8 into -- the purpose of this meeting we're having here
9 today is to sort of stock rather than have me
10 pontificate on this, rather than just to get you a
11 general reaction, we'll try to get somebody who is
12 actually going to have to do that in the pipeline he or
13 she manages.

14 But this is an added significant complication

1 Tolerance of 10 parts per million between stuff that's
2 a hundred parts per million and 50 parts per million,
3 you can sort of work that out, but if you're down to 15
4 parts per million, that's it, then it's a bigger
5 problem.

6 MS. DESANTI: Thank you.

7 MR. BENJAMIN COOPER: This land end issue, I
8 have to get that point in. You can't just go out and
9 get land and put more tanks on any more than you can
10 just go out and get land to put pipeline around, not
11 until after the fight because it's a really tremendous
12 constraint on the industry to react.

13 MS. DESANTI: Thank you, and we will be
14 following up when we get into these issues in more
15 detail.

16 I would like to move into the marketing and
17 distribution issues, but I'm wondering if just for the
18 clarity of the record, if one of you would volunteer to
19 just describe for us briefly what happens to gasoline
20 as it comes out of the end of the pipeline and how does
21 it then end up at the gas station?

22 So if someone could just give us a brief
23 description of terminals and racks or tanks so that we
24 have this on the record that would be very useful.

25 Bob?

1 MR. BASSMAN: Gasoline comes out of refiners,
2 and it either goes into a pipeline or goes to the
3 terminal at the refiner, some generally does both, and
4 it is -- that is called above the rack. Once it hits

1 terminal rack and bring it to their stations or the
2 customer's station.

3 The customer, if it's a retail customer at the
4 end, it's called a retail dealer, either buys from his
5 jobber or another distributor or member of the
6 Petroleum Marketers Association of America, he buys
7 from the major oil company itself.

1 will be billed to whoever the customer is, and that is
2 how the gasoline gets to the station.

3 Now, if it is an Exxon station in Washington
4 D.C., it will be an Exxon truck generally, sometimes
5 they use a common carrier bringing it to an Exxon
6 dealer. This is a divorce state, if you will, but
7 that will be a retail dealer that is directly supplied
8 by Exxon.

9 If it's a Texaco station in the District of
10 Columbia, it's a Texaco jobber who picks up his product
11 at the Fairfax Terminal and brings it to a Texaco
12 station.

13 Does that explain what happens?

14 DR. HASTINGS: Another useful thing that people
15 might want to know about is the difference between
16 branded and unbranded gasoline, so at what point does
17 this gasoline become branded versus unbranded?

18 So let's say that you are Unocal on the West
19 Coast or you're Tosco Corporation, who now owns it on
20 the West Coast, and you sell both unbranded and branded
21 gasoline. That gasoline could be refined by Tosco or
22 any other refinery on the West Coast.

23 When it gets to the terminal, Tosco's going to
24 post an unbranded rack price and a branded rack price.
25 If you have a Union 76 Station, if you're a dealer for

1 example, you have to buy at the branded rack price, not
2 at the unbranded rack price.

3 What makes the difference is an additive so two
4 trucks can pull up to the rack. One is a Rotten Robbie
5 or Joe Blow's Gas or something like that. The other
6 one is a Unocal jobber and has a Unocal truck.

7 Gasoline can come out of the same spigot and an
8 additive is mixed in to the tanker truck right before
9 it leaves the terminal. The gasoline is the same to
10 that point. One pays a premium and can officially sell
11 it as Unocal gasoline, and the other one cannot post a
12 brand name because they didn't pay the branded rack
13 price, and they don't have a contract to sell that
14 brand.

15 Many refiners, I might get in trouble for
16 saying this, would claim that the additive is immensely
17 important and that Chevron with Texron or Union 76 with
18 Pro Power really does something very special to the
19 gasoline which you should be paying a premium for.

20 An interesting story, at least I think it's
21 interesting, is that at one point in Phoenix, this is
22 the story I've heard, feel free to correct me if I'm
23 wrong, Tosco owned both the Circle K chain. They also
24 supplied to independents, and they also owned Union 76
25 branded gasoline.

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1 They did not have an additive, and right across
2 the street from each other, the Union 76 station could
3 charge and get away with a premium for the exact same
4 gasoline that was being supplied to an independent
5 station.

6 Someone sued them on some type of consumer
7 fraud something or other,, a lawsuit was brought, that
8 this was not legal to defraud consumers. They think
9 that paying for something and they're not, and so Tosco
10 came up with something to put in the gasoline so that
11 they could credibly call it 76 gasoline, if that gives
12 you some type of idea about the differences.

13 I like to talk about that just to educate
14 people because every time I get a topic on gasoline,
15 people come up and say, you mean Shell really isn't
16 different, why have I been paying for more it, and
17 that's a fun debate, but it's an interesting topic.

18 MS. DESANTI: In the absence of a Tosco
19 representative to respond, we will reserve the record
20 open for any responses that are necessary.

21 DR. HASTINGS: I don't mean to pick on them in
22 particular.

23 MS. DESANTI: I think that was very helpful.
24 Thank you both. And I think that will be helpful for
25 keeping our record clear.

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1 Now, we have a number of representatives of
2 independent marketers here, and I think it would be
3 helpful for us to focus on their role, and I would like
4 to through the floor open for you all to let us know
5 what you think it is the FTC should be focusing on in
6 this area.

7 MR. MCKEEMAN: If I start. I know I'll never
8 finish, but you'll cut me off in time. SIGMA
9 historically has represented what was known as the
10 private brand retail industry, at least are normally
11 large chains. Thrifty was one of them, who over the
12 last 50 years competed exclusively almost on the basis
13 of price.

14 I think the Sixth Court's opinion in Mobil
15 Marathon back in 1981 said this was the market segment,
16 and it was identified as the most price competitive
17 segment in the industry. They don't advertise, and
18 whether or not there's an additive in gasoline I'm
19 telling you the price differential proves that it does
20 pay to advertise.

21 It's consumer acceptance, all those things.
22 The market still works. That's nice. But the reality

1 years ago.

2 They have historically been high volume,
3 relatively low margin operators. Their idea is to
4 minimize the amount of fixed cost in a per unit sale
5 price that has to be recovered. Make no mistake about
6 it, they live on the marginal barrel.

7 It simply makes no sense, under any set of
8 circumstances, for an integrated competitor to sell to
9 its customer competitor at a price that will let that
10 customer competitor beat its brains in in the street
11 unless there is a decision made by the integrated
12 marketer, that refiner market I'll pick out a refiner
13 today, that if it doesn't make that sale, then that
14 independent marketer is going to find that product
15 someplace else at a cost that lets it do that and the
16 refiner shrinks his volume.

17 The big problem private marketers have is we
18 don't have stuff anymore. This country used to be
19 long on refining capacity, and in those markets where
20 it wasn't long on refining capacity, there was ready
21 and easy access to foreign manufactured product.

22 Over the last 15, 20 years, we've seen a lot of
23 stuff happen. The sources are restricted. There has
24 been a substantial increase in concentration in the
25 manufacturing end of our business. Moreover, due to

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1 primarily things in the Clean Air Act, there are very
2 significant non-tariff barriers in and the importation
3 product which make matters worse not better.

4 So to make a long story short, the private
5 brand segment has over the last 15 years substantially
6 branded up. In the 1970s, and, yes, I was alive then,
7 it's okay, I was -- I had hair then, but what we saw
8 was that California was a hot bed of private brand
9 retailing, and that reflected a number of things.

10 Number 1, California was a hot bend of
11 independent refiners. They're used to be 10 or 15
12 independent refiners who supplied motor fuels to
13 private brand marketers up and down the West Coast.

14 The California Air Resources Board to a
15 substantial extent took care of that, and that doesn't
16 make anybody bad. That just means there's no doubt
17 that smaller facilities are more expensive to upgrade
18 on a per barrel basis than bigger facilities, and as
19 those independent refiners left the market, there were
20 fewer marginal barrels around.

21 And you saw what happened to Thrifty happened
22 to a lot of people. There were a number of very
23 significant chains that used to be very prominent in
24 California, the old Regal chain, Quick Land Family,
25 Thrifty sold out. The reason is they couldn't make a

1 living finding product that was available to them at a
2 cost that would let the marketing efficiency deal with
3 retail markets, so they're gone.

4 The one thing I would ask the Commission to
5 start to do rather, above all other things, is start to
6 take a little stronger role on behalf of the consumer
7 in the federal policy regulation process.

8 I understand the Environmental Protection
9 Agency is not your responsibility, and I am not arguing
10 that what's happening under the Clean Air Act is
11 anything other than good for America.

12 What I'm telling you is it has consequences.
13 As those marginal barrels disappear, the most
14 competitive segment of the retail marketer has been
15 disappearing, and with the consequence people probably
16 are paying more for gasoline than they would if there
17 was a greater source of supply.

18 I don't think people have adequately taken in
19 that into account over the last ten years, and you
20 could do a lot of folks a lot of good by taking that
21 into account with respect to how you analyze things
22 that land in Bureau of Competition.

23 Historically you all have concluded the
24 terminal cluster analysis. We put a compass point
25 inside a terminal, draw circles, and where they overlap

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1 we figure we have alternative sources of supply. That
2 is not necessarily true given the various fuels
3 throughout the United States now.

4 Secondly, there has always been an assumption
5 that fuels would be readily available from non-U.S.
6 sources if we really needed it. Ask Jay and his
7 friends in California what it takes to get a cargo of
8 CARB II gasoline out of the Gulf Coast to California.
9 It takes a big premium.

10 The second thing you could start to think about
11 doing is taking a look at your remedies in some of
12 these acquisitions. Historically everyone will stand
13 up and say divest that refinery.

14 From the perspective of people who live on
15 having a little extra stuff around, you may be in some
16 instances better off to say, Keep that refinery but you
17 keep it on the condition that you run it, upgrade it
18 and make sure that a certain percentage of its
19 production goes off into a non-affiliated market.

20 And I realize that the bureau of enforcement
21 people, they want to beat their head against the side
22 of a wall. I don't want to see that problem, putting
23 it in its most technical basis. We don't have enough
24 stuff in a lot of places when we need it, and as the
25 sources of that stuff comes into fewer and fewer hands,

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1 you are over going to have some roll outs that last
2 summer seem typically rather than atypical.

3 (Pause.)

4 MR. BASSMAN: But anyway, if I can build on
5 that a little bit there's a couple things. Dr.
6 Hastings studies came up with some modest examples By
7 the way, I thank you for that, it's a pleasure to read.

8 And the three conclusions seem evident. A lot
9 of times economists take a lot of paper and a lot of
10 statistics and say that's proof, and proof is important
11 because otherwise it's just anecdotal, but let's talk
12 about the three conclusions that were reached in the
13 two studies.

14 First of all conclusion that has been so
15 articulated summarized, very quickly, if I have a
16 refinery and I have retail stores, I'm not going to
17 sell at my wholesale rack price to some other retail
18 source so they can be ahead. That was the conclusion
19 of the -- with the Tosco purchase of the 76 stores.

20 The second one was, again saying what Tim said,
21 that if there is a chain of independents that compete
22 solely on price and it is tuned over so a branded,
23 integrated vertically integrated manufacturer, in this
24 case ARCO, the price of everybody goes up, and that was
25 well documented in the study.

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1 The third also and which was the last thing
2 that Dr. Hastings said was we can show horizontally
3 that where there are more competitors for Tim and my
4 client members' business, more rack sellers, the prices
5 at the racks are lower than where there are fewer.

6 California is the exemplar. When this was
7 being put together, I really wanted Jay to be here
8 because we talked about California in terms of shipping
9 and what was the rest of the country -- one of the
10 trends that we see in California for a long time, well
11 before what we've talked about PADD V, the country is
12 -- petroleum allocation PADD V is the West Coast.

13 PADD V has always had shortages and higher
14 prices than the rest of the country and higher refiner
15 margins. Why? Because Ben's people can't put a
16 pipeline over the Rockies. You simply can't get fuel
17 to PADD V from the rest of the country as easy as you
18 can get anywhere else.

19 So in PADD V we've always had refining --
20 refining has always been a better business. Refining
21 margins have always been well above the refining
22 margins of the rest of the country, and the biggest
23 cause of the price increases that we have seen in the
24 past two -- April May June has been the environmental
25 change over that we talked about, and you can see how

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1 pipelines work on that.

2 When this happened last year in the midwest,
3 well before you did your study, I was talking to an
4 assistant Attorney General in Illinois who wanted to
5 know why the prices -- when the prices would change and
6 what was going on.

7 I said, Don't you worry, in nine days your
8 prices will drop, and he started taking notes about the
9 conspiracy how did I know. It's a nine-day pipeline
10 run from Gulf Port Texas to the Chicago area, to the
11 Chicago market.

12 It was a 50 cent premium on gasoline. You
13 could get 50 cents more on gasoline in Chicago for that
14 week than you could in Gulf Port. Everybody with
15 barrels of gasoline to ship were shipping them to
16 Chicago, and it takes nine days to get there, happened
17 just that way.

18 So generally speaking the market works. There
19 is no voodoo. There is no magic. The market does
20 work. There are however some anomalies, we haven't
21 taken enough account, the FTC has not taken enough
22 account into the overlay of environmental regulations,
23 and you really do have to do that.

24 But there are some areas where other things
25 weren't looked at. One of the thing that Phil Verleger

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1 talked about this morning, he talked about the terminal
2 market on the Ohio River in Kentucky West Virginia. He
3 told me at the break he only said that because Tim told
4 him to say that.

5 MR. VERLEGER: Tim told me the story.

6 MR. BASSMAN: One company has been allowed to
7 become a company with market power in that region, but
8 that is nothing compared to the market power that same
9 company has because of something the Commission allowed
10 them to do just a few years ago, the same market power
11 they have in the lower upper peninsula of Michigan, and
12 they take advantage of that market power.

13 PMA is trying to introduce another player into
14 this industry and to set up -- I'm sorry, for profit
15 hopefully if it ever succeeds, sub to create a new
16 supplier and new brand. They surveyed all their
17 members throughout the country to see who was
18 interested in buying product from this.

19 Lo and behold the two most interested areas of
20 the country to buy this product new yet to be born
21 player were California and Michigan. Why? Because the
22 independent marketers in California and Michigan can't
23 get any product.

24 Then we go back to the last part of what Dr.
25 Hastings said about more suppliers to our marketer

1 clients, the prices are low. It's also true down at
2 the wholesale and retail level. It's an old law of
3 economics by French economist in 1833, the more sellers
4 you have the more competition you have.

5 And because of the concentration that we are
6 seeing upstream in this industry, and every major
7 refiner since 1995, everyone of the 15 major suppliers
8 of gasoline in the United States except one which is
9 Sunoco, and we question why that is, everyone has
10 either merged or tried to merge.

11 We have seen tremendous, tremendous
12 concentration in this industry, and we're paying the
13 price.

14 MS. DESANTI: Thank you. Jay, I'll get to you
15 next and then, Justine, I'll let you had respond.

16 I do want to note just for the record that we
17 don't have everybody here today who might be relevant
18 in discussing these issues, and to the extent that
19 there are anecdotes and stories and allegations of
20 various things that are happening, I just want to note
21 that the record is not in a position to be completely
22 filled out, but to the extent that it's necessary later
23 on and the Commission determines to do so, then we will
24 do that.

25 Jay, go ahead. .

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1 MR. MCKEEMAN: There are several things that I
2 think the Commission could do or could engage in that
3 would help fill their role as protector of the
4 consumer.

5 First of all, as already has been touched upon,
6 the issue is unbranded fuels, and especially in
7 California, that is the white blood of the independent
8 marketer, and access to adequate volumes of unbranded
9 fuels at reasonable prices is -- that's critical to our
10 survival.

11 There have been times this last spring when the
12 street price of branded fuel has been lower than the
13 wholesale price, unbranded wholesale price without tax.
14 That's basically a 30 to 40 cent differential between
15 retail price of branded and the wholesale price of
16 unbranded, and that puts our members -- basically we've
17 had members that have just yellow taped their pumps and
18 said we're not in business while this type of market
19 condition or this kind of price condition exists.

20 And the point there is the independent retailer
21 is typically a small family owned business. They do
22 not have the capital resources to maintain or withstand
23 very many price situations like that.

24 In addition they're also confronted with
25 environmental costs, and these go beyond the boutique

1 deals. We have a penchant for innovation and other
2 environmental regulations like vapor recovery and
3 underground storage tank requirements that are quite
4 expensive to meet.

5 So we've kind of got the double whammy out
6 there in the sense that we've got very expensive and
7 continuing environmental expenses and then a market
8 condition that stretches our ability just to stay in
9 business.

10 So I would urge the Commission to look closely
11 both in their role as protector of the consumer and in
12 their role as evaluating mergers and acquisitions to
13 make sure that adequate volumes of unbranded fuels are
14 still available for supply, and that goes both to the
15 issue of competition and pure barrels.

16 Really in the end that's the -- the more
17 barrels we have, the chance of having unbranded fuels
18 is greater. It's that simple.

19 MS. DESANTI: Well -- I'm sorry, go ahead.

20 MR. MCKEEMAN: The second point is something
21 that we've notified and Tim alluded to is the decline
22 of the independent marketer in California, and there is
23 a practice that's employed by the major oil companies
24 in their contracts where they basically contract out
25 the ability of independent marketers to grow in the

1 branded market.

2 It's something that's called red lining that
3 basically in the contracts, the branded suppliers say
4 that they will dictate whether you can grow or maintain
5 your market share within a market.

6 So if you're a branded jobber, you're totally
7 at the discretion of the supplier to maintain your
8 market, and with the compression of alternatives or the
9 reduction of alternatives, that makes it harder and
10 harder for our members to actually find new brands or
11 to figure out exactly what they're going to do in a
12 market, and that will lead in reduction of market by
13 attrition very simply.

14 Third, I would suggest that the Commission
15 needs to take a little bit different view on r me, 12 åbrbrb

1 to pay more for their fuels because our ability to
2 operate efficiently will disappear, and I just ask the
3 Commission to understand the plight of the small volume
4 purchaser in their consideration of both the market and
5 mergers and acquisitions.

6 Finally, there are some things that the
7 Commission should look at, and I know you've done this
8 before, but things like credit line protection. When
9 two companies merge, typically the credit line that an
10 independent marketer has with both companies, two plus
11 two does not equal four. The credit line gets
12 shrunk, and in these days and times, it's difficult to
13 get outside credit so protection of credit lines is an
14 important issue.

15 Adequate remuneration for loss of brand value,
16 allowances for branding, rebranding or reimagining is
17 very important, and the willingness of companies to
18 provide unbranded fuels under contract or other
19 creative ways of allowing our members to continue to
20 purchase unbranded gasoline is also a test for us in
21 the sense of are we going to be able to do fixed
22 forward contracts or maybe mid max or something like
23 that that helps protect our members from the steep
24 conditions in the market.

25 We thank you for inviting us and appreciate our

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1 opportunity to present our viewpoints to you.

2 MS. DESANTI: Thank you. I have one quick
3 question as a follow up. Then we'll go to Justine and
4 Mark and Tom. The quick question is at the very
5 beginning, towards the beginning you mentioned a
6 situation that I think you've called inversion
7 sometimes, where the wholesale cost to the unbranded
8 guy is higher than the branded price on the street.

9 And my question is this: When that happens,
10 are independent marketers constrained from switching to
11 branded fuels in the short run for some reasons that
12 are contractual or otherwise?

13 MR. MCKEEMAN: Well, I can let Bob or Tim talk
14 to those, but basically you need to have a supply
15 contract with a branded marketer, and that takes time
16 to get, so you also lose your ability to shop for the
17 unbranded -- the cheapest price of fuel at that plant
18 as well.

19 MS. DESANTI: Justine?

20 MR. BASSMAN: Just to follow up on that very
21 quickly. I also think in markets where there are
22 jobber dealer owned stations, for the branded or
23 unbranded, one jobber can hold supply contracts from
24 many suppliers at the same time. That facilitates
25 switching to be able to supply the unbranded station

1 through its supply contract with the branded refiner.

2 In those market though you don't see the rack
3 price in person, so it's in California markets where
4 jobbers or dealer owned stations are such a small
5 percentage of the market. You're seeing these rack
6 inversions, and it's precisely in those markets that
7 jobbers don't hold enough of a portfolio of supply
8 agreements because there aren't enough dealer owned
9 stations to supply that they can't do that type of
10 switching.

11 So that kind of ties in with the main point
12 that I wanted to make. A lot of people have brought up
13 the idea that having different types of fuels or the
14 EPA regulations have caused higher prices in many
15 markets because of supply shortages, et cetera.

16 I want to make that point distinct from the
17 point that if we had the same type of fuel across the
18 board, we would then see a return to competitive
19 pricing. There's a step that's missing in between in
20 that logic, namely that it is perhaps the case and it
21 is the case in California because of the environmental
22 regulations, the market structure has changed.

23 Now, we're in a new equilibrium. Suppose we
24 got rid of CARB gasoline tomorrow? Would that bring
25 prices down in California? It might not for the

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1 following reasons. Suppose we brought a pipeline from
2 the Rocky Mountain states in to California.

3 If you're looking at markets where 90 percent
4 of the stations and greater than that in volume are
5 owned -- like the station itself is owned by the
6 refiner and directly supplied by the refiner, why does
7 that refiner have an incentive to bring in gasoline to
8 lower the price?

9 Well, we can see that they don't. That's why
10 they're sustained price differences at wholesale racks
11 within California. They're able to price discriminate
12 at the wholesale and retail level within it, so if
13 environmental regulations have, as Timothy said, caused
14 independent retailers to sell their station to branded
15 refiners or to brand up so to speak, you may now be in
16 a situation where if you got rid of the violation
17 regulation to bring supply from outside there is --
18 it's not economically feasible for that to be done
19 because there aren't enough retail outlets to sell it
20 through that aren't already owned by the refiners who
21 are obviously profit maximizing with the current
22 situation.

23 So I don't think that's the case in many of the
24 other markets. I don't have data on retail composition
25 in the midwest, but let's say Dallas has a reformulated

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1 gasoline requirement and Austin doesn't. That market
2 has not moved to a regime where you have 80 to 90
3 percent of the stations owned by the refiners. It's
4 the reverse. They're owned by jobbers and not as many
5 by refiners.

6 So in that market perhaps there would be a
7 benefit to having the same type of gasoline in order to
8 increase competition. I don't see that many problems
9 in that market. It's a very competitive problem, so I
10 just wanted to make the point that just because
11 environmental regulations may have caused the situation
12 we're in, it's not the case of getting rid of them or
13 making them more uniform is going to get us out of the
14 situation we're in because the market has now proved to
15 be a different equilibrium market structure.

16 The second point I wanted to make is also on
17 the raising rival's cost scenario where firms have the
18 incentive to raise the cost to independent rival's,
19 this also assumes the ability to do so.

20 The FTC should be concerned about mergers where
21 a company is going to gain a significant increase in
22 their retail market share, their competition with
23 independent marketers if they are in a concentrated
24 enough market that they can't raise the price.

25 So Austin, Texas, would not be a concern. The

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1 reason is because there are many unbranded competitors
2 in a core equilibrium where you have 13 people
3 competing at the rack, if one decides to hold back
4 supply a little, you're not going to see a change in
5 price.

6 If you have three people competing at the rack
7 you will see a big change in price. That's just a
8 basic core outcome. There's an interaction between
9 that result. And the number of upstream competitors.

10 MS. DESANTI: Thank you. Mark.

11 MR. MARK COOPER: Justine's conversation gets
12 me pointed to where I wanted to go, and I have two
13 observations, simply stated market fundamentals matter
14 and market structure matter, and I have a way of saying
15 this to people.

16 I say I believe firmly in the Ed Meese, Landees
17 and Posner (phonetic) tests, and I use the Ed Meese
18 test, and actually when I described it to him early on
19 as the Attorney General, he published a new version of
20 the merger guidelines, and in those merger guidelines,
21 as you well know, we defined a market as in order to be
22 unconcentrated you have to have an HHI of a thousand or
23 less.

24 Now, that is the equivalent of 10 equal sized
25 competitors, and I have taken that and given Ed Meese

1 credit as one of the great consumer advocates of my
2 time in Washington, because ten equal sized competitors
3 is a place I will say I am happy to live, and I have
4 taken that 10 equal size competitors to heart.

5 And every time I see an industry with fewer
6 than 10 equal size competitors, I say, I'm worried
7 about market power and I wish this agency would take
8 that as seriously as I do. That's the Ed Meese test.
9 That's the market structure test, and I encourage you
10 to really take it seriously from now on. You will stop
11 an awful lot of mergers if you do an HHI of one
12 thousand.

13 The Landees and Posner test is the following:
14 Go back to the famous 1981 article on antitrust, and
15 you will see this in the gasoline paper, and especially
16 in the electric utility papers that I've been doing,
17 they discovered that if the elasticities of supply and
18 demand are less than one, then market power is
19 inevitable.

20 The formula comes apart in their words because
21 market forces that we always talk about are supply and
22 demand elasticity, and when they're less than one, it
23 always makes sense to raise prices. Mr. Niskanen used
24 an example -- he described the elasticities of supply

1 .2 and his long one was .4, which is about what the
2 literature says.

3 And so this is a market in which -- the demand
4 side is even less than that, in which the market
5 structure and the market fundamentals are prone to
6 problems, and you really need to look carefully, and
7 you've seen all of the examples here. This question of
8 you have to look at horizontal concentration and you
9 have to look at contracts, not only ownership, you have
10 to look at vertical because it gives you leverage.

11 So I would encourage the agency -- I have a
12 specific idea for you. Take the ten most expensive
13 markets in the country and the ten least expensive
14 markets in the country, and analyze the supply train
15 into those markets, refineries, transportation,
16 terminals and stations, do them, apply the Ed Meese and
17 Landeers and Posner test, and you will find why the
18 price of gasoline in California it a buck more than it
19 is in some city in Ohio that's Senator Metzenbaum drove
20 through and couldn't believe the prices.

21 So as straight forward and classic analysis,
22 which this afternoon was all analysis, the morning was
23 all rhetoric unfortunately, but the afternoon was all
24 really solid observations about what effects market
25 structures and fundamentals.

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1 MS. DESANTI: Mark, I know now that your
2 perception of what is being discussed depends on how
3 well it coincides with your point of view. Tom?

4 MR. BROWN: I would like to mention three
5 things. First of all I would like to thank Bob Bassman
6 for saying the market works because it does work. It's
7 all based on supply and demand, not maybe what we heard
8 down at the end of the table but it does. It's
9 probably the most competitive industry we have in the
10 United States today, and it's just fundamentals of
11 supply and demand.

12 Bob mentioned there's 100,000 service stations
13 in the U.S. actually, the number is 175,132, so it's
14 even more competitive than maybe most people think, and
15 since we have a general audience here from the public,
16 I guess that would be an interesting figure for you to
17 keep in your mind. It has reduced a little bit. I
18 think it was about 500 stations more last years so the
19 decline in the number of stations is low I think.

20 Secondly, since this is a marketing session,
21 Mr. Niskanen mentioned some excise taxes, and American
22 Petroleum Institute publishes a brochure entitled how
23 much we pay for gasoline. It's an up to date, good
24 brochure that everyone in this room should have, and it
25 will give you the latest and greatest excise taxes by

1 states.

2 The other issue I would like to raise is Jay
3 mentioned underground storage tanks. I would like to
4 give the FTC some background on that. Environmental
5 Protection Agency required underground storage tank
6 owners and operators to meet new tank standards,
7 upgrade or close all substandard underground tanks by
8 December 22, 1998.

9 API member companies reached compliance with
10 the EPA's December 1998 requirements and are committed
11 to stay in operational compliance.

12 An issue of great importance to API is that the
13 EPA recently estimated around 15 percent of the
14 underground storage tanks do not comply with
15 requirements. API members feel very strongly that any
16 location that is not in compliance should no be put
17 into operation. Further API has been a strong
18 supporter of state laws and regulations that prohibit
19 deliveries into tanks that are not in compliance.

20 API member companies have spent over 1.6
21 billion dollars upgrading 60,000 tanks to meet EPA's
22 December 22, 1998 requirements.

23 To ensure a level playing field in the
24 marketplace and in order to continue to provide quality
25 products to consumers in a timely fashion at

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1 competitive prices, it is incumbent upon the EPA to
2 ensure that all U.S. tease are brought into compliance.

3 Allowing any entity that fails to abide by the
4 EPA requirements to operate out of compliance erodes
5 the value of the significant investments incurred by
6 those meeting EPA's requirements and committed to
7 ensuring the environment to protect it.

8 It's just an issue I wanted to raise.

9 MR. DESANTI: Thank you. Mr. Niskanen?

10 MR. NISKANEN: Two points. The elasticity to
11 which I referred were demand elasticities, not supply
12 elasticities. I did not make any mention of supply
13 elasticity. My own views is they're very close to
14 infinite in the long run.

15 Second, a question to Dr. Hastings. In the
16 paper published in the volume, you concluded by saying
17 the impact to vertical market structure in wholesale
18 and retail prices is in general difficult to predict.

19 And then you say "thus investigation of the
20 impacts of vertical market structures requires a
21 careful empirical analysis that is guided by
22 theoretical predictions."

23 Now, the implication of that to me is we really
24 don't have any guidance to give to the FTC about which
25 vertical mergers or even which horizontal mergers it's

1 important to investigate in this industry because the
2 theory doesn't suggest whether there's a direction for
3 concern about it at all.

4 In the particular study that you did you found
5 that the prices were raised by vertical integration,
6 but you conclude by saying that you can't predict that
7 ahead of time, and it looks as if maybe your trying to
8 create a business for yourself for the rest of your
9 lifetime to make sure that there's a carefully
10 empirical study guided by good theoretical
11 considerations on every proposal in this area.

12 I presume we've got more to say on this matter
13 than that. I just don't know.

14 DR. HASTINGS: Shall I go ahead?

15 MS. DESANTI: Yes.

16 DR. HASTINGS: So I think the point of that
17 sentence is in the economics literature, there has been
18 an intense debate over the effects of vertical merges
19 and the effects of vertical integration or the vertical
20 component to horizontal mergers on wholesale prices.

21 but there are, at the same time,

22 8 8

1 literature.

2 Now, we notice that this seems to be a hot
3 debate in regulatory circles or in industrial
4 organization. However, because industrial
5 organization, the field, has focused mostly on theory,
6 in game theory we have not taken and looked at this in
7 an empirical way to find, Is there evidence that we
8 even see raising rival's cost.

9 This paper says, yes, there is so that's kind
10 of the context in which that statement was written.

11 It does not mean that we cannot say anything
12 ahead of time. I think we can say something ahead of
13 time for a lot of mergers, so, for example, this merger
14 would have -- or I mean, this analysis would have
15 implications for Diamond Shamrock's merger with Valero
16 or other ones, so what we're suggesting is the
17 empirical literature should grow in this area so we can
18 instead of just doing theoretical models have real
19 empirical evidence that supports the theory one
20 direction or the other.

21 Two -- can I make my other points for which I
22 have my sign raised or should we go on?

23 MS. DESANTI: Let me just ask Chris Taylor to
24 follow up, and then I do want to bring in Todd Spencer
25 with his perspective, so I think we'll try to keep this

1 relatively brief, but I believe you had a follow up
2 question.

3 MR. TAYLOR: This is related to what you were
4 just talking about. In both raising rival cost theory,
5 and this relates to something that Dr. Williams was
6 saying, that maybe we do the opposite of what we did in
7 the saying, there's a trade-off between the increased
8 efficiency of the vertical method by eliminating double
9 marginalization, but then there's the potential for
10 raising the other firm's wholesale price.

11 And the only way to really judge about whether
12 there's consumer harm is actually looking at consumer
13 prices, so I was wondering if in effect have you looked
14 at both wholesale and consumer and retail prices at the
15 same time, since your paper really looked at retail
16 prices, you didn't actually examine the wholesale
17 prices in the same markets, and the paper where you
18 looked at retail prices there was nothing about --
19 excuse me, wholesale there was nothing about retail.

20 And I guess I was interested in some of the
21 background for this conference. In reading some of
22 your papers, we looked at the paper you're looking at
23 it in terms of retail, there was a price inversion and
24 some extreme fluctuations in unbranded gasoline during
25 that period.

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1 So I was just wondering if you would comment
2 on, Dr. Williams, if you would like to as well, at the
3 importance of examining both wholesale and retail
4 prices in the context of vertical integration.

5 DR. HASTINGS: Okay. So there are a couple
6 questions in there. The one I remember most recently,
7 you're going to have to remind me exactly what you
8 asked, was for the retail paper let's say.

9 You noticed that there were some fluctuations
10 in wholesale prices around that. Yes, I did look at
11 those, and that's one of the great things about the
12 research design, so there may have been an overall --
13 and in fact there was an overall increase in price in
14 those markets, Los Angeles and San Diego at all
15 stations.

16 And the five cent increase in local retail
17 prices is identified above and beyond that, so what you
18 just pointed out is maybe there's higher wholesale
19 prices for the period -- the very first period right
20 before.

21 If you have read my paper carefully, you can
22 look at the two graphs, I'm not saying you haven't, but
23 you can look at the graphs that show price differences
24 between stations in the treatment group that were
25 affected by the loss of an independent competitor and

1 those in the control group.

2 Those prices track for about -- I actually have
3 pulled them out to the previous October so for a long
4 time, not just right before where there was an increase
5 in wholesale price.

6 Secondly the Thrifty stations were distributed
7 as it says in the paper evenly among different types of
8 competitors. You may be concerned, aside from the fact
9 that the graphs already rule this out, that there was a
10 temporal change at jobber supplied stations that were
11 branded around the same time.

12 Thrifty's weren't located all near jobber
13 supplied stations. Any kind of wholesale shop would
14 have affected the treatment stations and the control
15 stations evenly. If anything it might add some noise,
16 noise because of that fixed effect estimation. And
17 within the regression analysis, the five cent
18 differential is identified above it, beyond that.
19 That's one question.

20 What's another question? I can't quite
21 remember. Sorry to be technical.

22 MS. DESANTI: Before we get too far into the
23 clicks, we're going to pull us back to earth and get a
24 real consumer perspective here.

25 Mr. Spencer, would you like to add your

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1 thoughts to these issues?

2 MR. SPENCER: Certainly, and actually I can
3 kind of -- I can rationalize, but I remember a lot of
4 the instances from the 70s, and my perspective comes
5 from that of a small business trucker running
6 throughout the country, 125,000 miles a year in a truck
7 that gets roughly four miles per gallon, and diesel
8 fuel is by far the largest expense per year.

9 Our organization represents 67,00 owner
10 operator small business truckers which is significant,
11 but our industry overall, 80 percent of the truck, all
12 the trucks are owned in the large -- the large trucks
13 that deliver the major products are owned by people who
14 own six or fewer trucks.

15 And this is an industry that is dramatically
16 impacted by fuel prices, energy costs, and it has been
17 since this first became an issue.

18 It's key for us because ours is an organization
19 that grew out of the very first Arab Oil Embargo in '73
20 and '74, and then trucks simply shut down because the
21 price of fuel doubled virtually overnight. We heard
22 people talking about black market fuel and you could
23 buy fuel then for a dollar per gallon and we'd been
24 paying on the area 29 cents.

25 Those were the stories that floated around.

1 People said, We're going to be totally out of fuel by
2 1980. Well, we didn't run out of fuel by 1980, but we
3 did get nailed again with tremendous increases in price
4 in 1979 and some 40 percent of the trucks stopped then
5 simply because there wasn't money to offset those
6 increased costs.

7 Now, both of those instances Congress saw fit
8 to address the issue in giving truckers a mechanism to
9 pass along the increased cost. Trucks don't do
10 discretionary driving, and if we all want things we're
11 going to have in the stone g'ttr&y. ase

1 that for a number of reasons.

2 One, there aren't many outlets out there.
3 There aren't many, and I suppose CARB regulations have
4 an impact on that. They specifically effect diesel
5 fuel and for diesel fuel it never makes since to me
6 where CARB regulations come into place simply because
7 the truck that delivers in Los Angeles bought his fuel
8 in Arizona or Colorado or Oregon.

9 So why would there be higher fuel requirements
10 and costs just for California when most of the trucks
11 come from outside anyway? When it comes to diesel, I
12 prefer to think that that's a regulation that doesn't
13 really have any practical benefit.

14 That's one of the reasons costs are higher.
15 There are fewer stops out there, and big oil companies
16 I'm quite certain play a role in their being minimized
17 competition, but the local communities do as well.
18 They don't want fuel stops -- no one wants a truck stop
19 anywhere, and of course when this debate about refiners
20 and stuff comes up, people don't want it in their big
21 yards. They don't want truck stops in their backyard
22 either, but if you don't have competition, if you don't
23 have suppliers, you're going to have higher costs.

24 I mentioned awhile ago I believe that everybody
25 has become very good at maximizing their profits, and

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1 their is almost no reason for inventories to be around.
2 They say it costs us money, but it also creates the
3 opportunity where they can respond very, very quickly
4 and increase their cost.

5 Our members saw that most significantly the
6 winter of '99-2000 when there was a two-week increase

1 specifically over the past 18 months, 200,000 heavy
2 duty trucks, the big trucks have been repossessed,
3 repossessed. 200,000, that's a 10th of a whole over
4 the road truck fleet.

5 Thousands and thousands and thousands of small
6 businesses are gone. Over 5,000 big trucking companies
7 are gone just in the past 18 months, and of course this
8 is an industry that everybody needs badly if we're
9 going to have what we eat and what we wear.

10 And even the government plays a role in there.
11 If you go back to 1980 and look where taxes were, 4
12 cents a gallon federal tax, and I don't know that any
13 state had a state fuel tax that would be any closer to
14 8, 9, 10, 12 cents a gallon max.

15 Now, it's between 40 and 50 cents tax at the
16 state level, another 6 cents on top of that for diesel,
17 and I don't know if FTC can do anything to promote
18 competition between states and government entities with
19 their hands out, but we do need to see some competition
20 in that area.

21 And I think there needs to be some things done
22 to stimulate competition between the suppliers and the
23 retailers of fuel because I don't see any other way to
24 hold prices down and to address the situation where we
25 are today.

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1 Our fuel, our energy crisis for the end
2 consumer will keep coming back. It has since 1974. We
3 forget about it when prices go back down again but it
4 will be back. Hey, we're all good Americans and good
5 capitalists. We learn how to make money, and the
6 people in this business have become very good in
7 knowing where to find it, knowing how to maximize
8 profits.

9 I believe there's a role for FTC.

10 MS. DESANTI: Thank you. Phil Verleger, I
11 would like to bring you in at this point, and I have a
12 couple follow up questions in addition to whatever it
13 is you want to add here.

14 MR. VERLEGER: I was just going to make a
15 comment following up on what Chris Taylor was saying,
16 and that is as I read the report the agency has already
17 done, is you want to differentiate between the impact
18 of an action on competitors and the impact of the
19 action on consumers, and this afternoon we've heard a
20 great deal about the impact on particular segments of
21 the retail marketing industry, and hidden behind that
22 is the potential for entry which is something that one
23 also looks at.

24 And in particular I think hidden in this is the
25 role of the very big hypermarkets, and what their

1 potential -- as I said the French had this argument
2 between 1985 and 1995, and in 1985 there were no
3 hypermarkets, and 50 percent of the gasoline was
4 distributed by independent businessmen.

5 Now, the independent businesses are essentially
6 gone, and the hypermarkets have about 60 percent of the
7 market, and the consumer has realized fairly
8 substantial gains in France.

9 In the United States we are seeing Wal-Mart,
10 Costco, Albertson's, Kroger and a number of other
11 companies coming in, and what has happened is that the
12 margins are sufficient that these large companies will
13 come in, and they do offer the consumer substantial,
14 very substantial savings, sufficiently large that we're
15 seeing the consumer's search expand dramatically.

16 In Los Angeles in some areas there are now
17 Costco's that are underselling the general price by 30,
18 40 cents a gallon. The volume I know on a couple of
19 the hypermarkets in Las Vegas are now running a million
20 gallons a month versus 220,000 gallons a month, and the
21 consumer is clearly benefiting from this.

22 So what we're talking about is some small
23 competitors, some of the smaller people are going to be
24 put out of business by these, and they're bringing
25 through substantial price reductions.

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1 I doubt there is substantial resistance we've
2 seen in the UK from the integrated companies to do
3 this, but the integrated companies resisted by having
4 to match their prices, so that Exxon has what it's
5 called price watching in the UK and that they keep
6 their prices down.

7 And again the benefits have flown through. The
8 one area where one -- where this could be stopped and
9 it's certainly slowing things in California is the
10 access to terminals. It is hard to bring in CARB grade
11 gasoline to the southern California on the ship.
12 There's not enough terminaling capacity.

13 And to the extent that terminals -- it's
14 impossible to move product, and again it may not be
15 possible to get it into the terminal areas, that is a
16 barrier to entry. That's why I came this morning, I
17 was focusing on. I think the critical facility area
18 question is really access to terminal.

19 But I was coming back to, I thought that was
20 what Chris Taylor was raising, the issue that really is
21 what are the impact of consumers versus what is the
22 impact on competitors.

23 MS. DESANTI: Thank you. You covered the two
24 points I was going to ask you about. Mary Coleman.

25 DR. COLEMAN: Yes. I wanted to make a couple

1 points. We've been focusing a lot of this discussion
2 on the independent retailers, and lost I think a little
3 bit in the analysis is that there's significant
4 competition among the branded retailers.

5 And while their prices tend to be higher than
6 the unbranded retailers, there are things that
7 consumers seem to be willing to pay for that -- not
8 only just the additives, but also the programs that the
9 branded companies are willing to put behind their
10 stations in terms of credit cards and providing access
11 to the types of stations that consumers want to go to.

12 Another thing I also wanted to bring up again,
13 as a bit of a counterpoint to some of the conversation
14 that has gone on, is that we've been talking a lot
15 about the mergers that have occurred during the 1990s,
16 and what should not be lost in that discussion is some
17 of the rationale for those mergers are that the
18 refining and marketing industry in the middle -- early
19 and middle 90s was at very low profitability rates for
20 most of the major marketers and in general.

21 And one of the impetuses has been, and it's
22 been discussed publicly by many commentators, behind
23 the merger activity is a desire to combine and try to
24 get costs out of the system, and that has been a main
25 impetus of much of the merger activity that's gone on.

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1 That is not to say there cannot be other
2 effects of that activity, but it's something that
3 shouldn't be lost in the analysis.

4 MS. DESANTI: Thank you. We have people who
5 have been waiting for awhile. Justine?

6 DR. HASTINGS: I wanted to make just a couple
7 really quick points. One is I think the FTC for a
8 little while was getting the short end of the stick or
9 is getting beaten over the head, so I want to make a
10 statement that ties in to terminal supplies, it did
11 make a really good decision on challenging Equilon's
12 purchase or request to purchase GatX, which is or was
13 or the last independent distribution terminal in Los
14 Angeles.

15 And they did that on the basis that having that
16 independent distribution terminal purchased may
17 increase the cost of securing supply for independent
18 marketers, and we have evidence that there's
19 independent retailers lower retail gasoline prices so
20 that was a very good decision. I wanted to put that
21 out there.

22 And the other thing I wanted to make is the
23 point -- and some of these are a little out of context
24 because I wrote them down while other things were being
25 said. A while ago I heard a lot of that all of this is

1 just supply and demand. Supply is supply. Demand is
2 demand, and supply and demand interact, and that's what
3 gives you prices.

4 Well, supply is supply only in a perfectly
5 competitive market. Otherwise supply is a strategic
6 choice variable. That's the whole point of oligopoly.
7 If the number of firms is smaller than some amount,
8 supply becomes a strategic choice variable, so it's no
9 longer supply is supply and demand is demand.

10 Supply is no longer a supply curve. It's a
11 point, a profit maximizing point from a reaction
12 function for these various firms. So when we're
13 talking about supply and demand, we need to keep in
14 context when supply is just supply and when it's
15 actually strategic choice variable. That's it.

16 MS. DESANTI: Bob Bassman?

17 MR. BASSMAN: Just a couple quick things, one
18 which will end up just about where Dr. Hastings is at.
19 First, Tom, I said a hundred thousand major branded
20 outlets, okay, and there are about 73,000 supplied or
21 independent or branded jobbers.

22 Second, and that's what Dr. Hastings just said,
23 markets do work when there are free markets. When
24 there aren't free markets they don't work. The
25 California example is the kind of example we don't want

1 to spread to the rest of the country. It's too
2 concentrated. There's not enough competition either at
3 the refining level or the distribution level.

4 And third, because of that, the Commission has

1 make. I was accused of not believing in markets. I am
2 a capitalist. I believe in markets. The problem is
3 people keep telling me there are markets when there are
4 no market forces, that is independent supply, and there
5 is competition without competitors. That was just a
6 small point.

7 I really do, and I always analyze the market.
8 The really interesting thing, I want to get back to
9 your work at the Commission. We heard that there are
10 175,000 gas stations. That's a great PR shot, and it
11 confuses all the reporters.

12 But the answer is the average American consumer
13 probably buys 90 percent of their gasoline at three or
14 four stations, so gasoline markets are local markets.
15 They're city markets and may be even smaller than that,
16 and you have to define your markets properly.

17 Second of all, you have to take your supply and
18 demand elasticities as your fundamental because they
19 are about as conservative as you possibly could get, so
20 let's calculate what supply elasticity you need in
21 gasoline markets where the demand of elasticity is
22 pointed to. You need an awto

1 public policy. And I can define it precisely in each
2 market and it's the length of the run on the pipeline,
3 and basically if I know it's nine days, then I want
4 that market to have a nine day supply because when it
5 gets short, someone ought to be putting it.

6 In a competitive market someone is putting it
7 in that end, on the other end before the price starts
8 to go up because they don't want to lose their business
9 on the other end.

10 MS. DESANTI: Tim?

11 MR. COLUMBUS: A couple things. Number 1, all
12 the behavior we described that some of us find
13 disconcerting --

14 MS. DESANTI: Move closer to the mike, please.

15 MR. COLUMBUS: All the behavior we've described
16 today which you might even find disconcerting, doesn't
17 make the people engaged in this bad folks. It makes
18 them business folks. Every one of my clients, given
19 the opportunity to get a competitor out of the market
20 would do it in a heartbeat. , absolutely, positively.
21 Doesn't make them bad folks. It makes them business
22 folks, how the world looks.

23 Secondly, it is a supply problem. Everything
24 you talk about, this is going on, this is going on, we
25 have markets and group. You don't have market

1 inversion. There's a whole bunch of supply around
2 inverted prices on wholesale racks, whether that be
3 branded or unbranded, very simply is a reflection of
4 allocation and shortage by price.

5 That's all it is. Doesn' orfffke anybody a bad
6 person sensible way to go about it. The concern you
7 ought to come up with is where do we go from here. Bob
8 accurately describes about California -- this is
9 nothing new in California. The president of my client
10 is the guy who runs Rotten Robbie. He is Rotten
11 Robbie, and he looks over to me and says, You guys are
12 going to have to get used to it, it's on the way.

13 California has been a supply island for awhile.
14 My concern is when the Commission does its analysis of
15 what's going on in the rest of country it recognizes
16 that we are in fact isolating ourselves from the world.
17 We have a highly concentrated base. That's not
18 necessarily bad. That's just reality, and three ffy be
19 a thousand reasons for that.

20 But if we're going to get lots of product from
21 offshore, I want to tell you two things to think about
22 that. Starting in 2006 we're going to get 15 parts per
23 million diesel sulfur content. The Canadians are going
24 50 parts per million in 2004, excuse me, 2005. Europe
25 is at 50 parts per million.

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1 But it is a quantum difference to make 50 parts
2 per million and 15 parts per million. It is an order
3 of magnitude or more in terms of complexity and cost.
4 We're not going to find a lot of 15 part per million
5 diesel fuels floating around in the market unless the
6 U.S. market is paying a fabulous, fabulous premium for
7 it.

8 When you look at gasoline, Europe is at 100

1 We for the life of us can't find anything to
2 justify the prices, other than you know why they do it?
3 Because they can and again, it may not make them evil
4 people. It makes them business people.

5 But if you're looking at things and say maybe
6 giving a consumer a break, final point to Dr. Williams,
7 you talked about the major concerns about dual
8 marginalization, and I understand that.

9 I would urge you to think again in light of
10 Safety Con. You remember the United States Supreme
11 Court overturned vertical resale, maximum vertical
12 status as a per se violation, and you would be
13 surprised how many strong competitors who fly oil
14 company flags today make sure that they're able to
15 compete on an inter brand basis is done by agreement
16 and under contract with -- if you sell at this price
17 this is your cost. If you sell at a higher price, then
18 that is your cost, thereby taking out the opportunity
19 for that double margin.

20 Again that doesn't make anybody bad but the
21 phenomena they think about is I think it's very real
22 for a long time. Safety Con took care of a lot of
23 that.

24 MS. DESANTI: Thank you. We have five minutes
25 left, so I think we will give, Darrell, you an

1 opportunity to speak, and then we will end where we
2 began, with Mary Coleman.

3 MR. WILLIAMS: Actually I'm not sure whether
4 you're saying State v. Safety Con was consistent or

1 reflects the benefits to consumers, and I didn't want
2 to us to lose site of that general point.

3 MS. DESANTI: Thank you. Mary?

4 DR. COLEMAN: I just wanted to make a brief
5 point about the discussion about having so much storage
6 capacity and having so much inventory at whatever
7 levels that one cannot lose site of the fact that while
8 that may be useful potentially in helping to alleviate
9 short-term disruptions, there is a cost of the
10 inventories, and that cost will then be reflected in
11 the product.

12 And so to the extent you hold more inventories,
13 you will potentially drive up the cost of the product
14 as well.

15 MS. DESANTI: Thank you very much. I really
16 want to thank all of you panelists who have contributed
17 so much. We've learned a lot today. I'm sure we will
18 be thinking and chewing on all this for quite some
19 time.

20 We are now adjourned.

21 (Whereupon, at 4:24 p.m., the hearing was
22 concluded.)

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1 C E R T I F I C A T I O N O F R E P O R T E R S

2

3 CASE TITLE: FACTORS THAT AFFECT PRICES OF REFINED

4 PETROLEUM PRODUCTS WORKSHOP, No. P010101

5 HEARING DATE: AUGUST 2, 2001

6

7 WE HEREBY CERTIFY that the transcript contained
8 herein is a full and accurate transcript of the notes
9 taken by US at the hearing on the above cause before
10 the FEDERAL TRADE COMMISSION to the best of OUR
11 knowledge and belief.

12

13 DATED: AUGUST 9, 2001

14

15 CONSTANCE A. WILSON

16

17 DEBRA L. MAHEUX

18

19 C E R T I F I C A T I O N O F P R O O F R E A D E R

20

21 I HEREBY CERTIFY that I proofread the
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