CITY COUNCIL
CITY OF NEW YORK

----- X

TRANSCRIPT OF THE MINUTES

Of the

COMMITTEE ON ENVIRONMENTAL PROTECTION

----- X

January 13, 2015 Start: 01:13 p.m. Recess: 03:20 p.m.

HELD AT: 250 Broadway- Committee Rm, 14<sup>th</sup> Fl.

BEFORE:

DONOVAN J. RICHARDS

Chairperson

COUNCIL MEMBERS:

COSTA G. CONSTANTINIDES

ERIC A. ULRICH
RORY I. LANCMAN
STEPHEN T. LEVIN

[gavel]

1

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

CHAIRPERSON RICHARDS: Okay we are ready to begin. Okay good afternoon. I am Donovan Richards, Chair of the Committee on Environmental Protection and today the committee will hear Intros number 54 and number 451 which will require the use of biodiesel in the New York City ferry fleet and in the Department of Environmental Protection's marine craft. Transportation fuel oils are a major source of air pollution in New York City. Using biodiesel in place of petroleum diesel for marine transportation can have a positive impact on the environment and public health, and can provide safety benefits in marine applications as it is less toxic and bio, and more biodegradable than petroleum diesel. In the event of an accidental discharge the adverse impact that a biodiesel spill would have on the marine environment is relatively less than that of petroleum diesel. Biodiesel is clean, cleaner burning than conventional petroleum diesel, an important distinction in a city where improving air quality is a challenge. Petroleum diesel exhaust is a major source of air pollution and exposure to such exhausts has averse health defects on populations including increased mortality rates, respiratory

levels of air pollution. Most studies have found

greater vulnerability to air pollution and susceptible populations including but not limited to the, the elderly and our children. Of all groups that are disproportionately impacted by air pollution and have been studied the most research has involved adverse health impacts to children. With the legislation being heard today we move that much close to achieving the health benefits most desperately needed by the most vulnerable groups and individuals. Today's hearing is another step towards a more sustainable future. Now let's hear from council member Costa Constantinides on his bill regarding biodiesel use in the city ferry fleet.

2.2

COUNCIL MEMBER COSTANTINIDES: Thank you Chairman Richards. And as always thank you for your great leadership on making our city more green, more sustainable, and more livable for all. So thank you. Good afternoon. My name is Cost Constantinides. In achieving 80 by 50 the, the city council set our city on a bold new path and consequently we must be mindful of our duty to encourage the use of sustainable energy sources in both the public and private sectors. New York City's air still falls short of the clean air act standard for pollution

emissions reductions that has not yet been touched.

1

2

3

4

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

CHAIRPERSON RICHARDS: Thank you Costa.

And I just want to... I acknowledge colleagues who are here, Council Member Steve Levin has joined us and Council Member Costa's, obviously is here. I'm going

23

24

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 7
2 to switch some things up. Normally we allow the
3 administration to testify first but I'm feeling in a

4 different mood today. So we're going to hear from

5 Roland Lewis from the Metropolitan Waterfront

6 Alliance and we'll also hear from Shelby Neal from

7 the National Biodiesel Board.

2.2

UNKNOWN FEMALE: Gentleman could you please raise your right hands. Do you swear or affirm to tell the truth, the whole truth, and nothing but the truth today?

CHAIRPERSON RICHARDS: You may begin.

SHELBY NEAL: Great thank you. Good morning Chairman Richards, members of the committee. I appreciate the opportunity to testify here today on Intro and Bill numbers 54 and 451, legislation to increase the use of cleaner burning biodiesel fuel. My name is Shelby Neal... Director of State Governmental Affairs for the National Biodiesel Board. NBB is the national trade association representing the nation's bio-diesel and renewable hydrocarbon diesel producers. The association serves as the coordinating body for research lobbying and marketing. We have about a 17 million dollar annual budget, about 14 million of which is devoted to

modifications are, are necessary for its

sense that the next step would be the marine sector.

3

4

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

2.1

2.2

23

24

25

COMMITTEE ON ENVIRONMENTAL PROTECTION And so we're strongly supportive of these efforts. And if there's anything we can do to be helpful we, we would love to do that. In conclusion again like to thank Chairman Richards for having the hearing today and Councilman Constantinides for all of his work both now and, and over the past few years. Thank you.

ROLLAND LEWIS: Good afternoon. My name is Rolland Lewis. I am the president of the Metropolitan Waterfront Alliance and alliance of over 800 different civic institutions and businesses dedicated to a energized revitalized resilient harbor for all five boroughs and New Jersey whereby state. We too strongly support the bills. I think this is a, a, a strong step forward and, and a, and a path that's already started... the use of ultra-low... diesel by the city's fleet... I see you'll be hearing from Katherine..., DOT and... have been champions. And I think this will push us all to do further and better because there is more room for improvement. It will, as gentleman said it will reduce pollution and as a testimony already deliberately will reduce pollution as we've seen on, on the land fleet already. We are, we're following in suite to other great ferry

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 11 2 cities. San Francisco, British Columbia, excuse me Vancouver, British Columbia, and also Washington 3 State, the second largest ferry fleet in, in... are 4 all using biodiesel. And I'd like to just go, get out front and talk about the issue that has come up 6 7 and I, as I've talked to mariners, I also see our friends from Metro Fuel here who generously supply 8 biodiesel for the historic boat fleet on our city... 9 day festival where 25,000 people get out on the 10 water every summer. That city, that, the ... sponsors ... 11 12 There was some reticence among some of our 13 colleagues who operate historic boats about using 14 this. They said oh it's going to clog our engines. 15 Some, overtime they have used it and they found that 16 has not to be true. They did a study as you're maybe 17 aware in, in Washington state where they uh 18 evaluated what would happen. And only boat where they had one problem. And they've had, they, they 19 20 had a remedy that they've, they, they had a purifier that they used that, that got past that problem. So 21 2.2 I recognize that there's an issue but I think it's 23 been dealt with and tackled by other, other cities and we should look to their, to their work on that 24

and follow suit. Finally I would like to mention

2

3

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

you know as, as you all know the MWA is a, is a great proponent for more water based transit in our city from the rockaways, from Astoria, from, throughout this metropolitan area is a way for resiliency in case of the next calamity that will happen as a way of commutation for people who need to get around. We need to use our blue highway in a bigger and better way. So the city by setting this example will hopefully get the private industry to follow as they have in many, many ways. Some, some of the boats are using bio diesel and, and... because of the city's step forward. So I see a day when we are much better connected by water, by, by many many ferries running around from, from the rockaways to Coney Island, to lower Manhattan, to Astoria, up to the Sound view in the Bronx. And when those boats are on the, on the water they should be using the, the cleanest possible fuel, and I think Bio diesel is part of the solution to making that happen. So thank you very much for the opportunity to testify and happy to answer questions.

CHAIRPERSON RICHARDS: Thank you. Okay

I'll start with this and I guess Shelby can you

speak of the pricing on biodiesel and, and... you know

2 has pricing increased or has it decreased over the

3 years or is it... level?

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

SHELBY NEAL: Sure Mr. Chairman I'd be happy to speak to that if I might refer to my notes. I, I anticipated this question because it's probably the most frequent question that we, we get. Everyone wants to do something for the environment as long as it's cheaper but fortunately we have been so that's a very good story for ... so ... So I do have proprietary data, we subscribe to three different pricing services, basically all the three major pricing services. And so the one, the one that we think covers New York Harbor the best I happen to have here. So I've been tracking the past 30 months and biodiesel's actually been cheaper 24 of those last 30 months here at the harbor, and the average is 22.4 cents less expensive than petroleum under, under that time period. So pretty significant potential savings to, to consumers. I think that the secondary question related to that is obviously there have some unique things happening in the fuel market the past couple months which related to prices, prices have come down pretty significantly and so the question is what happens to biodiesel.

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 14 2 And so I think what the data shows is that there is 3 some compression in that pricing advantage but it's, it's still there. So where, where you would have 4 seen maybe 30 or 40 cent pricing advantage over the 5 summer when we had very high prices you know that 6 advantage is now down between one and 10 cents 7 typically. So there's been some compression but it's 8 still there. So in essence when biodiesel's feed 9 stocks which are co-products and byproducts are 10 priced on the barrel of oil, when the barrel of oil 11 12 comes down those feed stocks come down typically in 13 tandem or, or nearly in tandem. 14 CHAIRPERSON RICHARDS: Can you speak of I

CHAIRPERSON RICHARDS: Can you speak of I guess the different blends and, and how, how successful are the different blends? So five, 20 in the winter in particular because I know that, that seems to be a big concern you know from different people we speak to you know over time. So can you speak to...

SHELBY NEAL: Sure.

15

16

17

18

19

20

21

24

25

22 CHAIRPERSON RICHARDS: ...how is it working
23 out in the winter?

SHELBY NEAL: Well I think... to point and understand that all fuel has to be managed for

difference. And so typically what you would see is

2.1

2.2

some additization but clearly that, you know there's, there's a process in place for that, it's not a different process for petroleum, just maybe a little bit more additization. So we have had highly successful users of B20, even B100. So you know the winter Olympic games uses B20. Aspen, the city of Aspen uses B20. Glacier National Park uses B20. The state of Minnesota uses B10. So a lot of clearly high profile uses so that something that can be managed through. And it's not, it's not particularly challenging. It's, it's really what the petroleum industry does.

COMMITTEE ON ENVIRONMENTAL PROTECTION

CHAIRPERSON RICHARDS: And do you... and my last question for you and I, I know Costa has questions and maybe some of my other colleagues. Do you believe that the city can utilize biodiesel in their, in the, in the city fleet, I mean in the ferry fleet and, and for the DEP vessels and, and can you expound if there, do you believe there would be difficulties in utilizing biodiesel?

SHELBY NEAL: There wouldn't be any that I would anticipate. Every... I, I wouldn't anticipate any. You know the engines are, are typically rail engines. So we have experience there. We, we know

2

3

4

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

that's good. And then cold flow is not a novel concept. We have experience there as I mentioned. There's certainly plenty of, of supply. You have Metro Fuel here which is going to be a, a very significant producer of local product using local feed stocks here in the ... so, so it'd seem like everything's, all, all the boxes that one would want to check have been checked. Having said that if there were significant concerns and someone were in, in favor of some sort of preliminary pilot program to put in place a structure, a very specific management best management practices we would not oppose that. I'm not saying it's necessary but we, we would not necessarily oppose that. We'd like to bring everyone along together in a way that everyone's comfortable.

CHAIRPERSON RICHARDS: Thank you so much. And Costa has questions so...

COUNCIL MEMBER CONSTANTINIDES: Thank you Chairman Richards. So tell me about how things have changed since 2008. I mean I remember I had a phone back then that flipped open in 2008 and definitely didn't do all the stuff that this thing does but how has biodiesel changed in the last seven years that

COMMITTEE ON ENVIRONMENTAL PROTECTION 18
maybe works, the technology's been upgraded in that

3 | time that we can look to the future?

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

SHELBY NEAL: Well thank you Councilman.

Of course you've been following biodiesel for, for a number...

COUNCIL MEMBER CONSTANTINDES: Mm-hmm.

SHELBY NEAL: ...of years and we appreciate that. I think there have been quite, quite a number of changes in, in biodiesel. Number one with, with pricing. Pricing has, has been as I mentioned essentially for the past two and half years... been consistently less expensive than petroleum. That, that would not have been true back in the 2007 2008 time frame. But you know there, there have been improvement like any product really. When it first comes out. I've been looking at LED light bulbs for example, replacing my whole house with LED light bulbs. Well there's no question that, you know that, that would, that would save energy and, and the quality of the lighting is very good but we're going to see improvements with people projecting, okay it's going to be cheaper, it's going to be better which is a national progress of any industry. We've continued that progress as well. Fuel quality we've,

been huge growth, huge efficiencies, huge quality

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 20 2 improvements throughout the industry and significant advances in use... [cross-talk] 3 COUNCIL MEMBER CONSTANTINIDES: So I quess 4 5 you can... ROLLAND LEWIS: To add of course the, 6 7 probably the most important thing for the city is... technology but we have a home grown, home based 8 biofuel provider here in, in the city of New York. 9 And that's, that's a big 'ol deal. 10 11 COUNCIL MEMBER CONSTANTINIDES: I 12 definitely agree. I mean, so like biodiesel, I quess 13 you both would agree then that biofuel is not a 14 boutique fuel, that it's really a mainstream fuel 15 that is, is definitely going to be a, a, a part of 16 the conversation when we talk about alternative 17 fuels to move our city forward to do some 18 measurements. That'll be a correct statement? SHELBY NEAL: I would, I would agree 100 19 20 percent. ROLLAND LEWIS: Yeah and, and I would add 21 2.2 that on the ASTM if you look at the, the time frame 23 you mentioned we only had one specification. Now we have specifications for B5, B6 to B20, B20 and home 24

heating oil. So we've, we've moved up the entire

chain now... specification for exact... for everything.

And ASTM international by definition means that
you're accepted because those are petroleum
companies, OEMs, auto manufacturers, rail industry,
they all have to vote to support that.

2.2

COUNCIL MEMBER CONSTANTINIDES: So if
there was a trial in 2008 that maybe didn't go quite
the way they wanted it to go we're talking about a
seven year difference and a lot has changed in those
seven years. We shouldn't be relying on seven year
old data to determine whether or not a fuel is a,
one that fits the mainstream correct?

SHELBY NEAL: Correct. I would look to the Washington state study that they did about the use of, in ferries about B, B20 actually. And then the, I, I, I omitted the most important thing about that home, home base so… it's on the water. Water based transit for, and deliver of, of biofuel which I think is fantastic…

COUNCIL MEMBER CONSTANTINIDES: Great. Thank you. Well go ahead to ...

ROLLAND LEWIS: Well I think we've been very candid about where as an industry have made mistakes. I think it's important to admit where

3

4

5

6

7

8

9

10

11

1213

14

15

16

1718

19

20

21

22

23

24

you've made mistakes. And if you don't certainly others will admit those for you. And, but I think it's also important to go back and learn from those experiences. So when, when Minnesota was mandated statewide there, there was a fuel quality issue and a limited number of circumstances. And we took that information, those, those issues that happened and we created an entire program called BQ9000 and, and we put those additional parameters, or cold flow parameters around the specification. Since that we've not had any issues. So I think it's important to admit the mistakes occurred but I think, also think it's important to go back and learn from those and, and to address those issues. And that's what we've tried to do in a very transparent way.

COUNCIL MEMBER CONSTANTINIDES: Alright thank you both.

CHAIRPERSON RICHARDS: Thank you. Thank
you. Thank you both. And I just want to acknowledge
we've been joined by Council Member Rory Lancman
from Queens and we'll have our next panel now. We
will hear from Eric Landau the Associate
Commissioner for DEP, John Petito the Acting Deputy

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

2 Commissioner of DEP, And we will also hear from

3 James DeSimone from DOT, and Nivardo Lopez DOT.

UNKNOWN FEMALE: Gentleman would you please raise your right hands. Do you swear affirm to tell the truth, the whole truth, and nothing but the truth today?

JAMES DESIMONE: One two, okay good. Good afternoon Chairman Donovan, members of the Committee on Environmental Protection. My name is James DeSimone. I'm Chief Operating Officer of the New York City Department of Transportation Staten Island Ferry Division. Joining me here today is Nivardo Lorpez, Lopez excuse me DOT's Director of Legislative Affairs. We are here today on behalf of Commissioner Trachtenberg who unfortunately could not be with us today due to a prior commitment. However she did want us to express her appreciation for your inviting us to this hearing and giving us the opportunity to comment on Intro 54. For over a century now the city of New York has owned and operated the Staten Island ferry. For the year just ended our fleet of eight ferries serviced almost 22 million passengers with an average of 109 passenger trips each and every weekday between the St. George

environmental stewardship and initiatives in this

the large ferries meeting EPA tier two requirements

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

proceed with the LNG project. In 2008 and again in

Cold weather use is a major concern given the less

remains within specifications potentially leading to

ferry trialed B5 in 08. The results were alarming in

already determined that the use of B5 is unsuitable for the Staten Island ferry vessels the project was actually terminated by the office of management and budget because of the cost differential between barge delivery of ultra-low sulfur diesel and ultralow sulfur B5. These costs however did not factor in the increased maintenance cost associated with using B5 which would have included labor, parts, and material. The Maritime industry is under stringent tier and emissions requirements during a phased in period that has already begun. The design of the next class of ferry boats for the Staten Island ferry is now underway and these vessels will be delivered beginning 2019 must meet federal EPA tier four requirements. At that time vessel operators will have to prove that the emissions from their

23

18

19

20

2.1

2.2

24

25

vessels are within specified parameters. To achieve

not compromise operational safety. Thank you

2 Chairman Donovan and the members of the committee.

3 We will be happy to answer any questions you have

4 either at this time or when the panel is through

5 testifying. Thank you.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

JOHN PETITO: Good afternoon Chairman Richards and members of the committee. My name is John Petito Acting Deputy Commissioner of the Bureau of Wastewater Treatment for the City of New York Department of Environmental Protection. I am joined today by Associate Commissioner Eric Landau of the Bureau of Public Affairs, Kevin Burns, Chief of, of the Bureau of Wastewater Treatment Marine Operations and Maintenance Section, Gia Maud [sp?] Wastewater Treatment Senior Port Engineer and other DEP staff. Thank you for the opportunity to testify on Introduction 451. As you know DEP has overall responsibility for the city's water supply and sewer system including providing drinking water to all New Yorkers, maintaining water pressure to the fire hydrants, managing storm water, and collecting and treating wastewater. DEP operates 14 wastewater treatment plants located throughout the city that clean and disinfect more than one billion gallons of wastewater to clean, to federal clean water act

1

2

4

6

7

8

9

10 11

12

13

14

15 16

17

18 19

20

21

2.2

23

24

25

standards every day. At the plants the wastewater undergoes five major physical and biological processes that closely duplicate how water is purified in nature. One of the byproducts of this processes is sludge which is transported by large vessels that many people see traversing the harbor and east river daily to the dewatering facilities where it is put through centrifuges which remove much of the remaining water. Currently the majority of the resulting material is landfilled though we continue to seek sustainable cost effective uses such as land application ideally used as fertilizer.

wastewater treatment system since the late 1930s and the Federal Work Projects Administration funded the

first three motorized sludge vessels. Today DEP

Sludge vessels have been a part of the city's

operates a fleet of sludge vessels that transport nearly 1.2 billion gallons of sludge each year. In

2009 DEP was awarded 53 million dollars, a 53

million dollar grant through the American recovery

and reinvestment era. One of the largest era grants

in the, in the country. This finances 50 percent of

the cost for the three new vessels, the Hunts Point,

the Port Richmond, and the Rockaway motor vessels

the Newtown Barge Park. In addition to the five

1

2

3

25

4 harbor survey vessel. All of our vessels use number

vessels, four shoreline survey vessels, and one

5 two ultra-low sulfur diesel fuel, USD, ULDS, SD,

6 ULSD. Intro 451 requires that from July 2015 until

7 January 2018 a US, a ULSD fuel blend with at least

8 | five percent biodiesel by volume, B5, be used in

9 diesel fuel powered marine craft owned or operated

10 | by DEP. Intro 451 further requires that after

11 | January 1<sup>st</sup> 2018 ULSD fuel blend with at least 20

12 percent biodiesel by volume, B20, be used in diesel

13 | fuel powered marine craft owned and operated by DEP.

14 DEP is concerned about the significant impacts this

15 | legislation will have, have on the agency and our

16 vessels. As mentioned all of our vessels use ultra-

17 | low sulfur diesel fuel meeting stringent EPA tier

18 | two emission standards. As you have heard from the

19 Department of Transportation the required use of

20 | biodiesel, either B5 or B20 prevents a, presents a

 $21 \parallel \text{host of issues regarding operational impacts, engine}$ 

22 | modifications, fuel availability, and storage that

23 make the use of biodiesel in marine engines

24 | infeasible. Though DEP has no experience with

biodiesel and marine vessels research and

fuel was much more promising. From this report I

necessary before on-loading biodiesel. All federal

2	agencies use American Society for testing and
3	material standards and US Environmental Protection
4	Agency promulgates fuel standards. EPA has not yet
5	issued a standard for renewable marine fuels though
6	the federal government is hard at work developing
7	one. Until, until then as reported by DEP engine
8	manufacturers will not warrant damage to the engines
9	caused by biodiesel. Moreover MARAD's research shows
10	that this, these alternative renewables show a 10
11	percent reduction in nitrous oxide emissions which
12	is NOx. As you know elevated NOx emission is a
13	continuing concern with biodiesel. In short the
14	types of fuel MARAD is studying appear to burn
15	cleaner than biodiesel. It is also worth noting that
16	because biodiesel fuel is incompatible with some
17	marine engines including those of our three new
18	sludge vessels acquired for 106 million dollars it
19	would make them obsolete. DEP makes every effort to
20	reduce greenhouse gasses, emissions, and is willing
21	to evaluate the feasibility of further reducing
22	emissions by using biodiesel of appropriate blends
23	in all stationary and mobile combustible sources
24	beyond what is already required by local law.
25	Because ULSD is as a marine fuel is so clean burning

anaerobic digester gas that is produced during the

and we thank you for the opportunity to testify

it... the cost is you know quoted weekly. We go

1 COMMITTEE ON ENVIRONMENTAL PROTECTION

2 through a DCAS contract and prior to this most

3 recent downturn we were projecting that the annual

4 cost for fuel for the Staten Island ferry was going

5 to be about 15 million dollars. Of course that's

6 dropped precipitously in the last several months.

2.2

examples that either you, DOT, or DEP is aware of, of, of the use of B5 or B20 in maritime application anywhere in the world? Is it, I mean is, is that, is that happening anywhere? I mean I, the, the previous panel mentioned obviously states and, and other large jurisdictions. But is there any, is there any application of maritime use anywhere?

JAMES DESIMONE: Generally in the commercial maritime industry when it comes to ships, tugs, barges, passenger liners and the like there is no biofuel being used in fact because of this issue of no standard. However you know as was mentioned here, and I happen to be very close with the people at Washington State ferry, they are burning B5 and they of course when they first experimented they has similar problems as we did. One of the primary differences between the Washington State ferry system and the Staten Island ferry is the manner in

number of vans are currently out of service and

1	COMMITTEE ON ENVIRONMENTAL PROTECTION 44
2	potentially face having warranties voided as a
3	result of using this fuel in compliance with the
4	newly passed law. In light of this situation however
5	all WEX fuel cards for sprinters have been
6	reactivated and should be this, in bold, the soul
7	means of refueling these vehicles for the New York,
8	for the foreseeable future. Under no circumstances
9	should these vehicles be fueled at city owned fuel
10	stations until further notice. This issue applies to
11	all city fueling facilities, not just DOT. If any
12	card issues arise please contact me or your WEX
13	Liaison. You know this is our concern. Alright, and
14	I understand you know I take great pride in
15	everything that State Island ferry has done. We, we
16	have not been regulated into anything that I stated
17	to you; all of our emissions initiatives, trialing
18	B5, installation of DOC's LNG. Everything we've done
19	has been at our own volition to try and improve the
20	situation. So it's not like I disagree with, or the
21	agency anything that's… [cross-talk]

COUNCIL MEMBER LEVIN: Sure.

JAMES DESIMONE: ...being proposed here. Our concern is something like this. If this were to

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 45 2 happen the Staten Island ferry would be shut down. 3 We cannot pull over to the side of the road okay. 4 COUNCIL MEMBER LEVIN: Mm-hmm. 5 JAMES DESIMONE: So this just happened last week with the city's fleet and the supply of 6 7 biofuel. 8 COUNCIL MEMBER LEVIN: This is because 9 there's, too much, a higher, higher concentration 10 of... 11 JAMES DESIMONE: It doesn't go into what 12 the concentration is. All it says is that ... is above 13 the expected concentration and the concentration 14 that the manufacturer supports for our sprinter 15 vans. 16 COUNCIL MEMBER LEVIN: Mm-hmm. 17 JAMES DESIMONE: Right? So that's really, 18 that is the issue with us is that, and I would, I would certainly agree with my colleagues here at 19 20 DOP, D... COUNCIL MEMBER LEVIN: DEP. 21 2.2 JAMES DESIMONE: DEP, excuse me. You know 23 I, I mean, I, we're certainly willing to trial anything and I realize eight years is a long time 24

25

but...

## 1 COMMITTEE ON ENVIRONMENTAL PROTECTION 46 2 COUNCIL MEMBER LEVIN: Yeah. 3 JAMES DESIMONE: ...as I said talking to my colleagues at Washington state ferries they're not... 4 in spite of what might be out there the B20 is a 5 major obstacle because of the tier requirements that 6 7 we're facing. We've been point blank told by our 8 engine vendor do not even contemplate something like that with the tier four. 10 COUNCIL MEMBER LEVIN: Uh-huh. JAMES DESIMONE: Okay? So what's happening 11 12 right now is the United States has... 13 COUNCIL MEMBER LEVIN: Sorry tier four 14 being B20 is that right? 15 JAMES DESIMONE: No no no... 16 COUNCIL MEMBER LEVIN: Oh. 17 JAMES DESIMONE: ...this is the emissions. In other words... 18 19 COUNCIL MEMBER LEVIN: Oh emissions okay. 20 JAMES DESIMONE: So our new ferries which 21 will be delivered in, starting in 19 they will be 2.2 required to meet federal EPA... [cross-talk] 23 COUNCIL MEMBER LEVIN: EPA, I see, I see, 24 okay.

have they, have they had instances where they've had

1	COMMITTEE ON ENVIRONMENTAL PROTECTION 48
2	to take their, their fleet offline or not, you know
3	because of issues with the B20?
4	JAMES DESIMONE: No they have not, the B20
5	is not what they're burning. They, down the road
6	they're supposed to and they have the concerns
7	[cross-talk]
8	COUNCIL MEMBER LEVIN:or B5.
9	JAMES DESIMONE:with the tier four.
10	COUNCIL MEMBER LEVIN: Okay.
11	JAMES DESIMONE: The B5 is what they're
12	[cross-talk]
13	COUNCIL MEMBER LEVIN: Have they ever had
14	the, because of B5 had to take… [cross-talk]
15	JAMES DESIMONE: No because they [cross-
16	talk]
17	COUNCIL MEMBER LEVIN:their, their fleet
18	offline?
19	JAMES DESIMONE:have a very local and
20	well defined specification.
21	COUNCIL MEMBER LEVIN: Uh-huh.
22	JAMES DESIMONE: And because of the
23	delivery methods that's being brought in by [cross-
24	talk]

COUNCIL MEMBER LEVIN: So a lot has to do with the delivery method... okay.

in a barge in the, in the harbor here during the cold winter and whatnot and depending on the turnover of the fuel. And in addition just as I cited here I don't know... you know we get our fuel through DCAS and whatever happened here last week with the city's fuel supply, all of the sprinter vehicles are now are, are not authorized to fuel at city's fuel depots. So I'm just saying...

COUNCIL MEMBER LEVIN: Sure.

JAMES DESIMONE: ...we couldn't afford to have something like that happen with Staten Island ferry. We would be shut down. We can't just pull over to the side of the road.

COUNCIL MEMBER LEVIN: And my final question is since DOT did their trial in, in 08 has, has the technology or anything substantial changed within biodiesel to, to make that trial outdated or that there's, there's new improvements that have, that have happened that would, that the... the science has addressed some of the issues that you may have

24

Mr. Chairman.

## 1 COMMITTEE ON ENVIRONMENTAL PROTECTION 51 2 CHAIRPERSON RICHARDS: Thank you. Okay so 3 DEP is not going to get off the hook so easily here. So D, so just to run through again. So you guys have 4 tested no biodiesel blends in your vessels or anything so far? 6 7 JOHN PETITO: That's correct Mr. Chairman we've had no direct experience working with, with B5 8 but have relied certainly on our colleagues in 9 government as well as hearing in the city as well as 10 11 working with merit. CHAIRPERSON RICHARDS: How similar are 12 13 your, your vessels to their ferries? 14 JOHN PETITO: Very similar. 15 CHAIRPERSON RICHARDS: What's the, what's 16 the, what's the difference, what, what does that mean, very? 17 18 JOHN PETITO: If I may Mr. Chairman if we could bring up Kevin Burns who's our... 19 20 CHAIRPERSON RICHARDS: Sure. JOHN PETITO: chief of BWT's Marine 21 2.2 Operations and Maintenance who can address the 23 specific questions of our boats better than I can.

CHAIRPERSON RICHARDS: Okay.

KEVIN BURNS: Good afternoon. I would say

just the type of engine that we use, the diesel

engine is very similar. The size of the vessel is

very similar, 300 feet, uh 60 feet of beam. So it's,

it's comparable. You know they carry passengers,

7 people, we carry sludge. That's, that's the big

8 difference but... [background comment] Yes.

CHAIRPERSON RICHARDS: So can you guys speak on a B2 blend then since you're saying five and 20 is no good. Have you guys considered a B2 blend?

JAMES DESIMONE: We haven't because we...

You know at a certain point in time you start like

for example our emissions retrofits, both of us are

required because of the Emissions Control Area and

the federal requirements we're now down to a, an

ultra-low sulfur diesel. I think we're at eight

parts to million which is almost next to nothing

which... I'm sorry, which is next to nothing, almost

next to nothing is some kind of I don't know...

[cross-talk]

CHAIRPERSON RICHARDS: So why haven't you considered a B2 then?

2.2

JAMES DESIMONE: Because we are basically, 2 3 we're dealing, we, we actually have improved emissions because of the use of ultra-low sulfur and 4 5 the emissions technology that we're putting on the 6 vessels. So what it, you know you try this, you ty 7 that. We also have this liquefied natural gas project we're looking at. So you know there's a 8 variety of things we're looking at but basically, 9 the, right now we're under pretty stringent federal 10 requirements for tier emissions down the road. The 11 12 Emissions Control Area requirements went into effect 13 I think in August of 2012 and there is this 14 graduated or declining requirement for sulfur 15 content. So right now we're, we are burning probably 16 the lowest sulfur fuel that you could possibly get. 17 And with the after treatment technology that's going 18 on the ferries you know you get to a point where you know maybe we're doing, what we're doing is maybe 19 20 better the way it's going versus like our Director of Ferry Maintenance, his biggest concern is that 21 2.2 with the use of biofuels you can anticipate a higher 23 emission of nitrogen oxide which is one of the

things we're trying to reduce.

24

## 1 COMMITTEE ON ENVIRONMENTAL PROTECTION 54 2 JOHN PETITO: Again I, you know as we 3 stated in our testimony in consultation with US Maritime Administration we're waiting to sort of see 4 what their continued analysis results in in terms of 5 the best form of renewable fuel as they have been 6 7 moving away from biodiesel. And they've expressed interest in continuing to work with us and us in 8 working with you in determining the best renewable 9 fuel to meet the goals of the legislation. 10 11 CHAIRPERSON RICHARDS: Let me ask you a ... 12 So has DEP considered piloting for your particular 13 vessels? JOHN PETITO: For B2? 14 15 CHAIRPERSON RICHARDS: Mm-hmm. 16 JOHN PETITO: Uh we have not at this, not 17 currently as we, again as we've been waiting... CHAIRPERSON RICHARDS: I mean we don't 18 have to stop it too, it can be five, two, 20... 19 20 JOHN PETITO: Well we do know that B20 would be completely incompatible with the three new 21 2.2 vessels that we just purchased. 23 CHAIRPERSON RICHARDS: Okay so have you

guys considered piloting on your particular vessels?

COMMITTEE ON ENVIRONMENTAL PROTECTION 55

I don't want to hear DOT, DOT is their own... So what

has DEP done, the Environmental Protection...

JOHN PETITO: I think we're going to have the same problems that they had...

CHAIRPERSON RICHARDS: Let's not think...

JOHN PETITO: Well okay. [cross-talk]

CHAIRPERSON RICHARDS: ...piloted.

JOHN PETITO: I, I... Let's assume, alright we have 160 thousand gallon storage tank, tanks, four tanks of 40 thousand a piece that are 20 feet under the ground at Wards Island okay. So we use about 45 thousand gallons a month on our, on our ships.

CHAIRPERSON RICHARDS: Mm-hmm.

thousand every four to six weeks we get a delivery on a ship. So we're going to have maybe 100 thousand gallons of B5 B20 sitting for maybe two, three, four months in the, in the ground and that's going to have to be pumped to a, to a vessel and we're just... you know we're just very concerned that that diesel is not going to be stable after three or four months.

2.2

CHAIRPERSON RICHARDS: Okay.

2 JOHN PETITO: That's not an issue.

2.1

2.2

CHAIRPERSON RICHARDS: But if you're saying that the winter months will cause a problem would you consider using it in the summer months?

And I know that's...

JOHN PETITO: I don't know we have other, other concerns too because our tanks, our fuel tanks on the vessels, and we have 40 thousand gallons of fuel on board each vessel, they sit right in the water. Okay so I mean I know the water warms up to maybe 75 degrees in august but you know April may it's still pretty cold so that fuel is going to be you know, like the temperatures of the water that it's sitting in.

CHAIRPERSON RICHARDS: So you guys spoke of Washington state I guess having a more concise... so have you guys considered doing something different rather than leaving it on the barge then. Would you guys consider storing it obviously elsewhere?

JAMES DESIMORE: Theirs is, theirs is in the ground, ours is in the barge and the problem with the Staten Island ferry changing the fueling we don't have enough time in the day. In other words if

10

11

12

16

17

18

19

20

21

2.2

23

24

25

road here obviously we'll be removing grey water and probably sewage at some point. So there's only so many hours in the day. A delivery by truck, it just,

58

13 we'd never be able to get, we wouldn't be, it would have a tremendous operational impact for us to have 14 15 to take delivery by truck or even sending the ferry

over to some fuel facility.

CHAIRPERSON RICHARDS: Can you go back into... so you said you guys piloted the, was it B5?

JAMES DESIMORE: Yes.

CHAIRPERSON RICHARDS: Can you go through that again and you said, you said obviously that the purifiers had to be serviced... Can you just run through...

JAMES DESIMORE: Yeah that, one of the things that we're discussing here is probably

have a local custom blend for them and it works for

JOHN PETITO: Well it's...

24

25

diesel?

we've asked and we've, we've had actually

COMMITTEE ON ENVIRONMENTAL PROTECTION 62

discussions with EMD recently because the new

ferries will be tier four and asking about this,

this particular legislation. You know.

2.1

2.2

CHAIRPERSON RICHARDS: So my question is what are they doing, so I,I hear you in terms of the way that they store you know their fuel in, in Washington state and other... But I'm trying to still understand they, they have not gone through any particular issues? There's been no... [cross-talk]

JOHN PETITO: They did ...

CHAIRPERSON RICHARDS: ...according to ...

JOHN PETITO: ...initially. Washington State had exactly the same experiences we had. There were reports that were referenced.

CHAIRPERSON RICHARDS: So what are they doing differently now to not go through that experience.

JOHN PETITO: Their fuel supply is a very very precise specification that is blended locally. It's a custom blend for them. None of their fuel sits in tanks. It's delivered by truck or the ferry actually goes to the fuelling facility and gets it sort of fresh if you will. We don't do that. We, we have to have fuel inventory because of our

2 operational tempo. There is no way that we could

3 start fueling by truck and continue to operate at

4 | the level that we do.

2.2

CHAIRPERSON RICHARDS: Okay I will go to Costa for some questions. I just don't want us to get into a pattern of not thinking outside of the box... [cross-talk] And I think, and I think that you know the city and you know we, we love working and I, listen we, we love DOT, we love working with DEP. But you know it seems to me that you know we get suck in one way of doing things that this, the last 100 years we've been doing it the same way so therefore this is what we know. And I refuse to believe that we cannot come up... I think there's some creative minds on this thing...

JOHN PETITO: Well Mr. Chairman...

 $\label{eq:charperson} \mbox{CHAIRPERSON RICHARDS: ...that can come up} \\$  with some creative ways...

JOHN PETITO: If I may that's, that's why in advance of, of this hearing after legislation was introduced we did reach out to MARAD to find out where they were with renewable fuel and where they were going and how we could work in partnership with them and with you to find the best renewable fuel

2 that meets you emission goals as well as doesn't

3 create an operational problem for the agencies.

4

5

6

8

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

JAMES DESIMORE: You know Mr. Chair also want to add that, I think it's in everyone's interest to find renewable fuel. But it has to be studied. It can't just sort of be poured into our vessels and then have the passengers of the ferry be at risk to what is a trial. You know as... has mentioned before tier four would be the highest standard the federal government mandates and our vessels... will be tier four compliant and then of course we're also trying the LNG pile. So we're definitely open to new ways you know and, and the industry's open to new ways. But it takes time to sort of find the right blend and the right fuel that'll work and it'll be safe. And that's really what you know we're trying to maintain as the safety of our vessels.

CHAIRPERSON RICHARDS: And I'm just saying that and I, and I appreciate everything you guys have said because I remember my predecessor obviously when biodiesel it was the big boogeyman in the room. Oh my goodness the city's fleet is going to shut down. The world is coming to an end. But you

2 know I mean I just had a meeting with the

3 commissioner of DCAS and she alerted me that they're

4 doing B20 in certain areas that they didn't expect

5 to. They're doing B5 in places they didn't expect

6 to. So I don't want us to be short sited here and

7 | not think out... and I'm not saying that you are. But

I'm, what I am saying is that we should be thinking

9 outside of the box.

1

8

10

11

12

13

14

15

16

17

18

19

20

2.1

2.2

23

24

25

JAMES DESIMORE: You know as I stated in my test... I'm very proud. I've been at Staten Island ferry a while now. I'm very proud of everything we've done. None of it has been regulated or foisted on us so we have, we've taken it upon ourselves to try out ultra-low sulfur diesel before it was required. We trialed the B5 on our own. We have the LNG project. We have retrofitted the whole fleet with after treatment. So it's not a matter of saying you know we're thinking you know only this way. We did the biodiesel. You know now we're, we're heavily into this after treatment simply because the federal EPA tier requirements are coming down the road. So it's not like I, I don't have any choice in that at all. Now of course our vessels are a little bit different in terms of the regulatory component we

1

2

3

4

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

are regulated by the coastguard. And so we don't have any choice in the matter so we're sort of on that track right now. And you know once again it gets into this, okay well who's going to give the, what's going to give you the cleanest result? You know I, I'd feel pretty comfortable with the ultralow sulfur diesel and the after treatment. And, and I'd certainly tier four requirement to realize right now today there are no tier four engines in the world alright. The tier four requirement is the US Federal EPA. It doesn't apply to the international community. So the Staten Island ferries, the new ones coming are probably going to be among the first tier four compliant vessels in, in the world. And so you know they're going to be pretty clean. And the rest of the fleet will be fitted out once the technology's available. So I mean it doesn't, I guess my point is you don't necessarily have to go in one direction and which is what we've tried to do is look at a variety of solutions to make sure that the ferries is clean as it can be.

CHAIRPERSON RICHARDS: And have you guys said to the engine manufacturers obviously listen we're looking to do more and I, I would think that

1 COMMITTEE ON ENVIRONMENTAL PROTECTION

2.2

they wouldn't want to lose the city's business, have

3 you guys said to them listen we want to look to do

4 more biodiesel. Would, you know are you guys, are

5 they looking in that particular direction?

JOHN PETITO: No. No I don't think they are because it's... [cross-talk]

 $\label{eq:charperson} \mbox{CHAIRPERSON RICHARDS: Maybe we need to} \\ \mbox{find some people who are.}$ 

JOHN PETITO: ...it's a relatively small market.

CHAIRPERSON RICHARDS: Right.

JOHN PETITO: In other words we have to build ferries to service transportation needs of Staten Island. It's not an option of sitting down with EMD because they'll turn around and say you know you're a very small market for us. We build you know engines for rail and whatnot and without Staten Island Ferry we'll get along fine. We're not that big of a player in the market to be able to influence engine manufacturers and see... because biodiesel as I said it's, it's relatively limited use in the maritime industry. So as I said there are other, there are other ways in which to provide clean emissions. And I think that's... you know when

25

checking there.

2 JAMES DESIMORE: Yep.

2.2

JAMES DESIMORE: Sorry, I didn't mean...
[cross-talk]

tell me about Washington state. Just is the only reason that B5 is a viable fuel, is it only having to do with their fueling? Is that, is that the only, is that the only reason, that's the only challenge that we have? You know is there... they went through the, the process, they found a way to deal with the sludge problems, they were able to put something into the fuel to work it out. So you're saying the only reason we can't comply is this issue of fueling? That, that's what's holding us back here in New York City? We can't find a way to make B5 work here with the framework that we have.

JAMES DESIMORE: Our conversation with the director of Ferry Engineering at Washing State

Ferries last week... in other words I, I served on panels... reviewing Washington state, know those people very well. And our director of engineering spoke with theirs. And the gentleman specifically

stated that a lot of the issues we had, just like you had, had to do with two things. It had to do with the quality of the fuel and they did put an additive. But their quality of their fuel as I said is well defined, it's locally sourced. It's delivered by truck to the small ferries, and it's the larger ferries actually come up to the facility. So they're not storing any of their fuel which I think everyone agreed here is that having biodiesel sit in storage tanks for periods of time it tends to denigrate. So that in our conversation with him that's exactly what he, he indicated was how they got from where they are, where they were to where

2.2

they are today.

CHAIRPERSON RICHARDS: So you're not open to any sort of trial... eight year, you know was it seven years ago I had a lot more hair, I weighed a lot less, I was sitting on that side of the table as a staffer and now I'm sitting here. So a lot has changed in seven years. And I think it may, we may be able to get where we want to go by doing some sort of trial, some sort of blend of B, you know either B2 B5 where we do, we have all the great components you just talked about but also having the

any of those conversations.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

JAMES DESIMORE: I mean you know I, I guess you know I'd have to go back and talk about it. Like for example we was, well you got to think out of the box... I, you know I have 70 thousand people a day that have to move back and forth on the Staten Island ferry. Alright so as much as I'd like to say okay we'll bring in trucks, we'll do this, that, and everything else. I mean we can trial it but I can tell you flat out we can't operate our operational tempo with truck delivery. And our, my paramount concern is to make sure the Staten Island community goes back and forth. That's their primary transit mode. So I mean we're certainly willing to sit around but likewise I would hope that you would recognize the tier requirements, the after treatment systems, and a lot of the other things that we're doing that may be better than biodiesel. So I mean I think it's got to be, we need to both probably sit

COUNCIL MEMBER CONSTANTINIDES: I would like that...

down and work together.

JAMES DESIMORE: And see you know...

## 1 COMMITTEE ON ENVIRONMENTAL PROTECTION 72 2 COUNCIL MEMBER CONSTANTINIDES: ...and I, I 3 definitely, we definitely recognize that. And I don't, and I, I, again as I started my conversation 4 I don't think we are you know... 5 JAMES DESIMORE: forcing... 6 7 COUNCIL MEMBER CONSTANTINIDES: ...attacking you today and, and not recognizing the good work 8 that you've done. So I hope you're not taking this 9 as an attack and... 10 11 JAMES DESIMORE: No no no. I'm just trying 12 to explain... COUNCIL MEMBER CONSTANTINIDES: And we're 13 14 looking to do this in a way that you know we can 15 have that conversation and make sure that the 16 residents of Staten Island can get back and forth. 17 There was a, utilize the Staten Island ferry, get 18 the best experience possible, our goal today is not to somehow leave them in a lurch in, and I hope 19 20 that's not what's coming across... mention that more 2.1 than once as well. 2.2 JAMES DESIMORE: No I'm just trying to ... 23 COUNCIL MEMBER CONSTANTINIDES: We're not

trying to strand the residents of Staten Island in,

2 in, we're trying to find the best way in

3 collaboration to be the cleanest possible.

JAMES DESIMORE: I'm just trying to offer

5 that in other words for us to send one of the

6 ferries say to Bayonne to a fuel facility, to get it

7 directly from the facility, it's simply, it's not an

8 option for us because of our operational tempo. So

9 | if that's what I want to make clear to you. It's not

10 | that we're not opening to trialing different things

11 or say could you have a truck delivery? We can

12 definitely trial a truck but there's no way that we

13 can maintain our operational tempo with truck

14 delivery because we have to fuel twice a week each

15 | boat takes several hours. And if you bring in a

16 | truck you're conceivably doubling the time. So... but

17 | as I said we're certainly willing to sit down and

18 | talk with you. It's just, you know we do have these

19 concerns, they are legitimate I think. And you know

20 | and I, I think as I said we've got a lot, lot of

21 | time and effort going into after treatment systems

22 and I think the biggest concern for the Staten

23 | Island ferry is this tier four that we're looking

24 at.

2.2

JAMES DESIMORE: And at that point in time we're going to have the coast guard and the EPA coming down at regular intervals and we're going to have to show them actual data from the emissions of the ferries that these things are compliant. And you know so...

COUNCIL MEMBER CONSTANTINIDES: I definitely hear you on that.

CHAIRPERSON RICHARDS: You know and we don't want to lose site of the goal of everything that we're trying to work towards is lower emissions and I think that's a goal that the agencies share.

It's a goal I know the council shares. And that's what we're, that's what we're going to try to work towards. So that's really the, the, the end game isn't really you know is it B5, is it, you know is liquefied natural gas, is it after treatment. The goal is really lower emissions across the board for the city.

COUNCIL MEMBER CONSTANTINIDES: I think that that's a shared goal. I just want to quickly check in with DEP on your willingness to sort of work with us on, on a possible study and, and sort of get us where we want to go.

2

3

4

5

6

7

8

9

10

11

12 13

14

15

16

17

18

19

20

21

2.2

23

24

25

JOHN PETITO: [off mic] We're always happy to work with council, have converse, further conversation with council on this as well as other topics.

COUNCIL MEMBER CONSTANTINIDES: Alright great. Thank you Chairman Richards.

CHAIRPERSON RICHARDS: Last question. So have you guys... would you consider some sort of storage facility on site? Is there, so ...

JOHN PETITO: We, we have, the problem with the biodiesel is storing it. When it sits in the tank for a period of time it begins to denigrate. Theirs is in the ground on site. Ours is in two barges on site. So it is being stored on site.

CHAIRPERSON RICHARDS: Okay. Alrighty [sic] thank you guys. And... just last question. So what would you, so what would you change in this legislation or what do you recommend, how do you recommend we move forward.

JOHN PETITO: I, I would recommend that... maybe the legislation should be that the council works with the two agencies, that should be the legislation at this point. To say that we agree...

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 76 2 that there's a law that we'll get together and 3 actually do some kind of pilot if you like. Rather than saying okay we're going to have to... Because as 4 I say the B20 from what the engine vendors are telling us is really going to be... But a trial, I'm 6 7 certainly, I'm willing to work with you any day of the week if you want to you know set up some kind of 8 a trial. And if that's the legislation that we trial 9 it and then go from there I think that, I don't 10 11 think anyone would have any problems with that... 12 COUNCIL MEMBER CONSTANTINIDES: You know 13 again we, we're anxiously awaiting the, the conclusion of the research that the federal 14 15 government is doing on this and... renewable fuels. 16 Personally I, you know I think we, we'd like to see 17 where all that comes out before we make any sort of 18 permanent decisions on legislation outside of, of any sort of small trial. 19 20 CHAIRPERSON RICHARDS: Now you're not going to let DOT beat you. 21 2.2 COUNCIL MEMBER CONSTANTINIDESH: I don't 23 think I did.

CHAIRPERSON RICHARDS: DOT just said

they're willing to do a trial, so DEP.

24

## 1 COMMITTEE ON ENVIRONMENTAL PROTECTION 77 2 JOHN POTITO: I was just going to say ... 3 we're in a different position than him. He has three 4 new vessels that are under warranty. I can take the 5 50 year old Kennedy and... CHAIRPERSON RICHARDS: Right, three new 6 7 vessels that, that were, 50 percent of which were purchased with the Federal Economic Stimulus... 8 [cross-talk] 9 10 CHAIRPERSON RICHARDS: And you guys don't have any old vessels out there that you guys can 11 utilize? 12 13 JAMES DESIMORE: We have one. 14 CHAIRPERSON RICHARDS: There you go. Look 15 at that. You didn't even know that. There's one out 16 there. So can that one be utilized for a trial? 17 JAMES DESIMORE: We look forward to having 18 that conversation with you. CHAIRPERSON RICHARDS: Okay. There you go, 19 20 so we have one. Alrighty, and you have... How many do you have? 21 JAMES DESIMORE: We'll, we'll ante 2.2 23 up one. 24 CHAIRPERSON RICHARDS: Alright got it.

There you go. So we got a deal. Alight thank you

gentleman, thank you. Thank you. Alrighty we'll have

3 our next panel. Scott Hedderich, I think I'm saying

4 that right, from the Renewable Energy Group, John

5 Minisal [sic], Maniscalco from the New York Oil

6 Heating Association, Daniel Gianfalla, I can't read,

oh from United Metro Energy.

2.2

UNKNOWN FEMALE: Gentleman can you please raise your right hands. Do you swear affirm to tell the truth, the whole truth, and nothing but the truth today?

CHAIRPERSON RICHARDS: You may begin.

DANIEL GIANFALLA: Good afternoon Chairman Richards and Members of the Environmental Protection Committee. My name is Daniel Gianfalla. I'm President and Chief Operating Officer of United Metro Energy Corp. United Metro energy Corp supplies and delivers gasoline, ultra-low sulfur diesel fuel, biodiesel, bioheat, heating oil, and natural gas throughout the New York metropolitan area. From terminals in Greenpoint, Brooklyn, Riverhead, Long Island, and Calverton, Long Island. United Metro Energy Corp was acquired by entrepreneur New York John Catsimatidis in 2012. He also owns United Refining, a major oil refinery in Pennsylvania that

achievements, the opening of the city's very first

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

heating season where the citywide bioheat fuel

1

gallons of petroleum and counting. And forward

4

thinking agencies like the Parks Department, the

6

or more in their truck fleets for a number of years

Sanitation Department, have been using a B20 blend

81

7

now. We applaud Council Member Constantinides,

8

Chairman Donovan Richards for these major steps

9

towards, forward and request that you consider

10

expanding this biodiesel marine fuel standard to

11

more city owned vessels and encourage private ferry

12

fleets and other private vessels to use more

biodiesel. Thank you.

13

14

SCOTT HEDDERICH: Think I'm on. Chairman

15

Richards, Councilman Constantinides, I want to thank

16

you for the opportunity to testify today. My name is

17

Scott Hedderich. I'm Director of Corporate Affairs

18 19 for Renewable Energy Group, REG. Renewable Energy

20

Group is a leading North America advanced biofuels

producer. We have 10 active biorefineries across the

21

2.2

country and the capacity to produce more than 350 million gallons of biodiesel in the United States.

23

We operate over 20 terminals nationwide. We have six

24

here in the New York Metropolitan area in addition

25

to three marine terminals that we have contractual

funky things on the back end; new catalysts, new

we can look at the city fleet for the best example

particulate matter and, and have some other general

engine manufacturers warranty five percent

about higher blends we should be looking at, at, at

exactly what it's supposed to do, cleans everything

whatever, that's not a big deal. What... a barge, a

3

4

5

6

7

8

9

10

1112

13

1415

16

17

1819

20

21

22

23

24

25

tank, an underground... they're all vessels to hold something. It doesn't matter where it is. It shouldn't be an impediment. We can work with these folks. These are great bills. I, I applaud the council for being progressive. It builds on work that was done in years past. I know this is a whomoved-my-cheese moment for some folks in the city.

We shouldn't be afraid of that. Thank you.

JOHN MANISCALCO: That was very good wasn't it? Good afternoon Mr. Chairman and members of the Environmental Protection Committee. My name is John Maniscalco and I serve as the CEO of the New York Oil Heating Association, a 76 year old trade association whose members for the most part are comprised of family owned heating oil distributers and terminal operators located throughout the city of New York. Thank you for the opportunity to testify today. NYOHA supports the goals of Intro number 54 and Intro number 451. We'd seek to set a minimum fuel standard of B5 biofuel for all city owned and operated ferries as well as DEP owns and operated marine craft. These bills will push New York City even further toward the goal of cleaner air quality, greater energy independence and

sector and vehicles in the transportation sector.

2.2

New York. Thank you.

New York is a leader of an environmental innovation and the addition of city owned ferries in DEP marine craft would set the example for other cities with active waterfronts. In conclusion I would like to say that this is an exciting step forward. We support and thank this committee and the bill sponsor Costa Constantinides for this untiring efforts in passing legislation that promotes clean green biofuels as well as sensible lean air policies. We at NYOHA look forward to working with the city council and the committee to reduce harmful admissions created by marine craft in the city of

CHAIRPERSON RICHARDS: Thank you. So can you speak of what biodiesel blends require special handling or equipment modifications?

important to note first off that all diesel fuel needs some level of, of I wouldn't call it special handling but handling. Without additization diesel fuel will gel at 32 degrees. The difference between diesel fuel from petroleum from oil from the ground versus diesel fuel from, from biodiesel is that you can additize that, that petroleum based diesel fuel

there be challenges there. At a, at a B5 blend five

percent... it, it is diesel fuel. So if we're only

24

city fleet moved to ULSD there hasn't ... and they, but

the tanks. Once things were clean, no issues. No

just regular diesel. But you have to make sure your

5 system is clean ahead of time.

2.2

JOHN MANISCALCO: Mr. Chairman if I could just kind of like address the heating oil sector which is... The heating oil is actually the same as diesel fuel, it's ultra-low. When the industry first went to ultra-low sulfur heating oil within the bioplant there was that detergent that my colleague had mentioned that happened maybe once first delivery, maybe the second delivery, the cleansing application took place. Filters were cleaned. Since then transition has been seamless.

CHAIRPERSON RICHARDS: So the city spoke of... and I,I just want to make sure that I heard you correct. They spoke of diesel manufacture's warranties. And I believe heard the city say that they use Caterpillar.

SCOTT HEDDERICH: So if I could trust the online information from the city I believe there are eight vessels, two or three that use Caterpillar engines, the rest use EMD, two different engines that were, that were designed for heavy duty on road

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

COMMITTEE ON ENVIRONMENTAL PROTECTION train applications. All of those should be off warranty first and foremost. But all those manufacturers have said D975 fuel compliant is acceptable for use in their, in their engines even off warranty. So at a five percent blend those Cat engines could take, could take it no problem. Those EMD engines could take it no problem.

CHAIRPERSON RICHARDS: And only up to B5.

SCOTT HEDDERICH: Only up to B5 in those Legacy engines. EMD was sold by General Motors four or five years ago. And while some of their new engines are being warrantied for use up to B20 they haven't done... and they, and they backwards certify the D975 aspect of their engines. They haven't warrantied everything. Again though once it's off warranty I think the issues are different. What's the impact to performance, what's the impact to the fuel handling system? Because I think everyone can agree no one would want, no one, especially me in my industry wants to see on the news a ferry drifting with passengers stranded and the word biodiesel being... that'd be terrible. But when it comes to performance, when it comes to fuel, there should not

be issues. When it comes to new engine warranties

not every new engine manufacturer warranties up to B20. That's something that our industry's been working on. We've got about 95 percent of the heavy on road engine. And, and so when I say heavy I mean like the, the big Cats, big Caterpillar, big Cummins engines, engines that would be used in, in this little marine application. That's not to belittle the size of the city fleet. I lost my train of thought because I thought I was belittling the size of the city fleet.

2.2

 $\label{eq:charges} \mbox{CHAIRPERSON RICHARDS: That's why we need} \\ \mbox{more of an expansion of it.}$ 

Warranty applications not everyone has, has gone.

There was a lot of, of pointing to the Sprinter

Vans, Mercedes makes Sprinter, Mercedes does not

warrant in the US above a B5, the same vehicle in,

in Europe would be warrantied to B7 because that's

the standard there and they've been reluctant to go

higher. Our... certainly been engaged with them. But

as you look at new, new vessel purchases there's a

great opportunity and I do think the city has

leverage. I do think the city has an opportunity.

Because there are large diesel manufacturers that do

COMMITTEE ON ENVIRONMENTAL PROTECTION

warranty to a B20. It just means you have to spec that engine in that, in that city ferry. And, and again we're not talking about the ocean going at sea for six months we're, we're talking about large diesels that have been around for a number of years that are perfect for this application that are perfect for biodiesel.

 $\label{eq:CHAIRPERSON RICHARDS: Okay great. I'll go}$  to my colleague Costa who has some questions.

COUNCIL MEMBER COSTANTINIDES: Thank you Chairman Richards.

CHAIRPERSON RICHARDS: Council Member Costa, sorry.

to be clear just because the, DOT was very adamant about, that Washington state did not apply the, the, were a totally different handling system and, and the way they did their fueling and that. Because they did it in such a concise way that, you know that's why they were being successful and that's why we are not able to emulate that in New York City. What would be your response to that statement? I, I see your look to Daniel but...

1

3

4

5

6

7

8

9

10

1112

13

14

1516

17

18

19

20

2122

23

24

25

DANIEL GIANFALLA: I would think on a distribution side anything can be changed, dedicated barges, if it's a barge that's required for their fueling or fueling stations could be added to both ends of the ferry system. So it's not trucks, it's those, those facilities, those storage tanks have filled off hours by trucks, ferry doesn't have to be there, those things could be added. Dedicated barges, clean barges, heated barges if it's a heating issue. We use, we utilize heated barges all year around for the heavy fuels as you know that will soon thank goodness be gone from our... city use. But heated barges exist if that's a concern as B concentration is, is increased. But there's many things that can be done, absolutely. And... but I'm, I'm sure that's how it's handled that in Washington State and that if it's a, a concentrated effort to get it done it, it can be done anywhere.

SCOTT HEDDERICH: So I, I live in the Midwest now so I'd use the word bunkum... but I did grow up in Utica upstate so we would use a different word I'm not, I'm not going to say out in public, my mother would be upset with me. I, I think from the senior leadership's perspective it's, it's a real

business. The environmental benefit is great but as,

1	COMMITTEE ON ENVIRONMENTAL PROTECTION 101
2	as Shelby Neal pointed out in today's climate
3	everyone loves to talk about environmental benefits
4	if it's the cheapest option. I personally think
5	that's too bad but that's the place that we're at.
6	JOHN MANISCALCO: If you think about see
7	I represent most the terminals in New York City, oil
8	terminals. And if you think, I mean those terminals
9	were selling high sulfur product for decades. Then
10	new laws came ultra-low sulfur, another law came
11	biodiesel, had to do certain steps, take, take
12	certain steps in the terminals, that was completed.
13	It's a change, change to some people is pain. But
14	you deal with it, you live through it. And right now
15	I hear of no problems as far as terminal storage in
16	the city of New York for the ultra-low sulfur
17	combined with B2 at least.
18	CHAIRPERSON RICHARDS: So B2 and do think
19	that B5 we'd be able to sort of transition to a B5
20	with no real effect… the kind of effects that they
21	were talking about. The
22	JOHN MANISCALCO: Correct.
23	CHAIRPERSON RICHARDS:the degrading of
24	the fuel and

JOHN MANISCALCO: No.

\_

CHAIRPERSON RICHARDS: ...all the issues that, that they sort of brought up during their testimony, both on the DEP side and the DOT side.

JOHN MANISCALCO: See no problem once so ever with that.

SCOTT HEDDERICH: If I could just add one thing... union pacific railroad has a number of, they have I think the largest diesel train fleet in the US. They operate a number of GM EMD engines. They've been working on B5 use pilot studies in and around their Illinois terminal in the last year. Just another example of a, of a modern user that, that is going forward, those are the exact same engines that are in the, the, the ferries. They haven't had a problem.

really quickly just to sort of speak to the environmental benefits. We've been talking a lot about the economics and... What would be sort of the, maybe you don't have that answer right now but what would be the, how many sort of theoretical cars off the road would we be talking about switching from where we are to going to a B5. What's, what's the

real, the environmental, what are we talking about here?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

SCOTT HEDDERICH: Cars off the road I'd have to get you the, the data. But, but...

COUNCIL MEMBER CONSTANTINIDES: Anyway you want to classify it. I don't want to make it too complicated.

SCOTT HEDDERICH: So, so everything that the city has done, that the DOT's done with, with respect to ultra-low sulfur and the steps they take have been, have been great and it has improved the emissions. You can't, you can only get so far using the existing fuel mix. If what you're trying to do is measure the environmental output on the back end. You've got to use fuels like biodiesel, you've got to use in gasoline applications fuels like ethanol. You won't, you won't get the reductions that you need otherwise. You, you could at a, at a cost of developing an engine that, that no one is going to, to, to purchase. Five percent reduction, EPA's got great numbers on the impact particulate matter which I think should be of particular concern to the city since there are lots of high cases of, of, of urban asthma. And particular matter's been show to, to do

COMMITTEE ON ENVIRONMENTAL PROTECTION 104 that. So you use five percent blend I think you could argue a five percent improvement versus the base, the base ULSD. Obviously higher blends higher, higher improvement accordingly.

2.2

definitely as, as I said to DOT and to DEP I

definitely appreciate all the efforts that they have

made and I, I, today of, was definitely not a

hearing to sort of attack them or denigrate their

good efforts. I think they've been good stewards and

I think we can always you know in collaboration

together come up with better ways and, and work to

find those cleaner fuels to, to get where we want to

go on the emissions side.

SCOTT HEDDERICH: You know I said I think it's a bit of a who-moved-my-cheese moment. I, I do think that's the case. As John said change can be painful for some folks. And this is about change.

And I think it's incumbent on, on our industries to point out in this case that that change really isn't all that painful. And, and the steps that you want to take as part of that change, cleaning your fuel system, using a better fuel that, that's, that's competitively priced today versus having to buy a,

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 105
2 an emissions package down the road are cost
3 effective and are, are smart economics for the

residents of the city.

2.2

COUNCIL MEMBER CONSTANTINIDES: Thank you gentlemen I appreciate your great testimony. Alright thank you Chair Richards.

CHAIRPERSON RICHARDS: Thank you, thank you gentleman. Thank you. Alrighty last person. Ms. Denise, the infamous Denise Katzman [sp?].

ENISE KATZMAN: Good afternoon. Denise

Katzman. I'm a business manager with Entertainment

IP Resources Corp and a Climate Science Analytic

with EnvironHancement. But today I'm speaking as a

volunteer advocate that supports both the bills. And

I want to thank the committee and Samara for all the

good work that continues to happen. Powering city

vehicles via biodiesel is the right direction. And a

lot of the speakers talked about private entities.

New York waterway is a private entity and New York

Waterway should be invited into this very

interesting platform since it does have a contract

with the city. Restaurant waste no matter the size

of the operation must be mandated by New York City

to be picked up at no charge by a bio, biodiesel

the way to support biomass via algae. And the ...

passed last year, two of which were guardians of

1 COMMITTEE ON ENVIRONMENTAL PROTECTION science, Rick Pelts and Theo Kilburn. And two were 2 3 water keepers that protected our precious water supply, Pete Seeger and Martin Litton. Thank you. 4 CHAIRPERSON RICHARDS: Thank you so much 5 for your testimony. Before we get out of here I'd 6 7 just like to thank the council to the Committee of Environmental Protection Samara Swanson and our 8 9 policy analyst Bill Murray for their hard work in 10 getting us here today. Also want to acknowledge and 11 thank my staff members; Jerrell Burney and Mercedes 12 Buchanan whose my newest intern and this is her 13 first hearing if my... certainly correct. So we hope 14 you got a lot of good information. So with that 15 being said this hearing is now finished. 16 [gavel] 17 18 19 20 21 2.2

23

24

25

World Wide Dictation certifies that the foregoing transcript is a true and accurate record of the proceedings. We further certify that there is no relation to any of the parties to this action by blood or marriage, and that there is interest in the outcome of this matter.



Date \_\_\_\_\_ January 14, 2015