CITY COUNCIL CITY OF NEW YORK -----Х TRANSCRIPT OF THE MINUTES Of the COMMITTEE ON HOUSING AND BUILDINGS ----- X September 25, 2015 Start: 10:18 a.m. Recess: 11:43 a.m. HELD AT: Council Chambers - City Hall BEFORE: JUMAANE D. WILLIAMS Chairperson COUNCIL MEMBERS: ANTONIO REYNOSO ERIC A. ULRICH HELEN K. ROSENTHAL KAREN KOSLOWITZ MARK LEVINE RAFAEL L. ESPINAL, JR. RITCHIE J. TORRES ROBERT E. CORNEGY, JR. ROSIE MENDEZ YDANIS A. RODRIGUEZ

A P P E A R A N C E S (CONTINUED)

Nilda Mesa Director Office of Sustainability

Laurie Kerr Director of Policy Urban Green Council

Asit Parikh Managing Director Engineering Architecture Design

Buck Moorhead Architect/Certified Passive House Consultant New York Passive House

Ken Levenson President New York Passive House

Stas Zakrzewski Board Member New York Passive House

Katrin Klingenberg Co-Founder/Executive Director Passive House Institute U.S.

Chris Benedict Architect Chris Benedict, R.A.

David White Engineer New York City

Elizabeth Zeldin Director of Public Policy New York Office of Enterprise Community Partners

A P P E A R E N C E S (CONTINUED)

Paimaan Lodhi Vice President of Urban Planning Real Estate Board of New York

Rezwan Sharif Broker New York City

1	COMMITTEE ON 4
2	[gavel]
3	CHAIRPERSON WILLIAMS: Good morning
4	everyone and thank you for coming. My name is
5	Jumaane Williams. I chair the council's Committee
6	on Housing and Buildings. I'm joined today by
7	Council Member Richards. We are here today to
8	discuss three bills that relate to energy
9	efficiency in buildings as part of the 7 th annual
10	climate week in New York City. Yay!
11	[applause]
12	CHAIRPERSON WILLIAMS: We can excuse
13	that one. We'll let that one go. With the United
14	Nations currently discussing sustainable
15	development goals here in New York City I'm glad to
16	bring similar conversations into the chamber of
17	City Hall as well. I want to mention that there is
18	some concern that as drafted Intro 701A and Intro
19	721A would affect private affordable housing
20	developments. That was not our intention and we're
21	currently looking into the issue. The first bill,
22	Intro 633 sponsored by Council Member Richards
23	would require large buildings to file an energy
24	efficiency report every five years rather than
25	filing the report every 10 years. Our second bill;

1	COMMITTEE ON HOUSING AND BUILDINGS 5
2	proposed intro number 701A, sponsored by the
3	Speaker of the City Council Melissa Mark-Viverito
4	would require that certain city capital projects be
5	designed and constructed as low energy buildings. A
6	subset of those projects of these projects would
7	be further required to satisfy a portion of their
8	energy needs through onsite power generation. The
9	bill would also require the mayor to produce an
10	annual report with information about capital
11	projects subject to this bill's design and
12	construction requirements. The mayor would also be
13	required to produce a triannual report containing
14	recommended practices for designing and
15	constructing low energy buildings. And our third
16	bill; proposed intro number 721A, sponsored by
17	myself would update local law 86 2007 which imposed
18	green building standards for certain capital
19	projects. I understand that Council Member Richards
20	would like to make brief statements concerning his
21	bill. So at this time I'd like to invite him to do
22	SO.
23	COUNCIL MEMBER RICHARDS: Thank you
24	Chairman. And thank you for your leadership in
25	Housing and Buildings Committee. Currently New York

1	COMMITTEE ON HOUSING AND BUILDINGS 6
2	City's building code requires that an energy
3	efficiency report be filed for a building every 10
4	years. As our city continues to commit to reducing
5	its consumption of energy and cutting its emissions
6	of greenhouse gases requiring an energy efficiency
7	report to be filed every five years rather than in
8	every decade with encourage closer monitoring for
9	operators and increase the data driven knowledge of
10	buildings throughout our city. If we call for
11	energy efficiency reports to be submitted every
12	five years rather than every 10 we would not be the
13	first. San Francisco seems to think that it is
14	reasonable to require reports every five years as a
15	practical step towards meeting their goals or
16	producing greenhouse gas emissions. The intent of
17	this bill is not to be over burdensome to building
18	owners or any of our governing agencies. The intent
19	of this bill is to aggressively reduce and monitor
20	the amount of energy our buildings are consuming.
21	Waiting 10 years to find out if we are behind on
22	our goals is entirely too long. Technology advances
23	much faster in a year than it did decades before.
24	Just think 10 years ago no one in this room had an
25	iPhone. It was introduced in 2007. Today it's more

1 COMMITTEE ON HOUSING AND BUILDINGS 7 2 uncommon not to have one. If we want to be serious 3 about new technology, innovation, and progress we 4 should not slow it down by a lack of monitoring 5 and... monitoring and accountability. I am certainly looking forward to hearing from the administration 6 7 and other guests on what they have to say but I 8 challenge you all to push this forward. I look 9 forward to working with you and I want to thank the chairman once again for his leadership and look 10 11 forward to hearing the comments. Thank you. 12 CHAIRPERSON WILLIAMS: And thank you 13 Councilman Richards for your leadership on 14 environmental issues. Thank you for providing also 15 the additional background on your bill. I'd also 16 like to thank my staff for the work they did to 17 assemble this hearing including Nick Smith my 18 Deputy Chief of Staff and Legislative Director, 19 Jenna Wilcox and Melaka Juvalee [sp?] Counsels to 20 the Committee, Guillermo Patino Jose Conde Policy 21 Analyst to the Committee, and Sarah Gastelum the 2.2 committee's Finance Analyst. As a reminder for 23 those of you testifying today please be sure to fill out a card with the Sergeant. I know we have 24 Ms. Nilda Mesar is it Mesa, from the Mayor's 25

1	COMMITTEE ON HOUSING AND BUILDINGS 8
2	Office of Sustainability. I'm going to have to ask
3	you to excuse me for one second. I have to go vote
4	in the committee room next door. And since I want
5	to eagerly hear every word that you have to say I'm
6	going to ask you if you can give me a couple
7	minutes before you begin so I can vote. And I'll be
8	right back.
9	DIRECTOR MESA: With pleasure.
10	CHAIRPERSON WILLIAMS: Thank you very
11	much. That wasn't too bad. We've been joined by
12	Council Member Garodnick, Mendez, Koslowitz, and
13	briefly by Council Member Cornegy. Ms. Mesa if you
14	can please raise your right hand. Do you affirm to
15	tell the truth, the whole truth, and nothing but
16	the truth in your testimony before this committee
17	and to respond honestly to council member
18	questions?
19	DIRECTOR MESA: I do.
20	CHAIRPERSON WILLIAMS: Then you can
21	begin.
22	DIRECTOR MESA: Thank you. Good morning
23	Chair Williams, Chair Richards, and members of the
24	committee. I'm Nilda Mesa, Director of the Mayor's
25	Office of Sustainability. Thank you for the
I	

1	COMMITTEE ON HOUSING AND BUILDINGS 9
2	opportunity this morning to testify on three
3	proposed pieces of legislation namely Intro 633 in
4	relation to requiring energy efficiency reports to
5	be filed every five years, Intro 701 A in relation
6	to low energy building requirements for certain
7	capital projects, and Introduction 721A in relation
8	to green building standards for certain capital
9	projects. The Mayor and the Office of
10	Sustainability applaud speaker Mark-Viverito,
11	Council Member Williams, Council Member Richards,
12	and the city council in general for addressing this
13	important effort to address energy waste and
14	establish standards for energy use in our buildings
15	that will get us to our goal of reducing the city's
16	carbon footprint 80 percent by the year 2050.
17	Climate change is an existential threat to
18	humanity. The impacts of our warming climate are
19	being felt today as the earth's weather patterns
20	are becoming more intense and sea levels are
21	rising. The results include more violent storms and
22	more severe droughts, extreme heat, widespread
23	wildfires, and torrential floods displacement of
24	societies and people and damage to property. As
25	these impacts are felt more heavily the urgency and

1 COMMITTEE ON HOUSING AND BUILDINGS 10 2 precision with which we must act comes into clearer focus. On Earth Day this year Mayor Bill de Blasio 3 set forth One New York, the plan for a strong and 4 just city. Through this plan our building ... our city 5 is building upon our global leadership in growth, 6 7 sustainability, and resiliency and embracing equity essential to that work. One NYC is a blueprint of 8 9 the New York City we want our children to inherit. And the actions that we take now will ensure that 10 11 we have a healthier environment, a dynamic inclusive economy, more affordable housing, an 12 infrastructure that is reliable and resilient. The 13 14 initiatives of the plan address every aspect of 15 life in New York City; how we live, work, learn, 16 and play. And achieving these goals need innovative 17 solutions. The Mayor's Office of Sustainability has 18 determined that nearly three quarters of citywide 19 greenhouse gas emissions come from energy consumed 20 in our buildings. While we look to bring renewable 21 resources to New York City the greenest electron is still the one that's never used. Our office is 2.2 23 working to reach the dual goal of reducing emissions from buildings 30 percent by 2025 and 24 reducing citywide emissions 80 percent from 2005 25

1	COMMITTEE ON HOUSING AND BUILDINGS 11
2	levels by 2050. In order to reach these goals, we
3	have convened a technical working group made up of
4	over 40 stakeholders from New York City's real
5	estate industry including architects, engineers,
6	labor unions, affordable housing experts, and
7	environmental advocates. We have also hired
8	engineering firm HDR to help us determine the
9	impact that different policies and programs might
10	have on reducing emissions. The recommendations of
11	this work will build on the city's legacy of energy
12	efficiency and green building policies like Local
13	Law 86 and Local Law 87 which have been so
14	important to our efforts. The Office of
15	Sustainability is pleased to testify in general
16	support of today's introduction of these bills.
17	With council's engagement on climate change our
18	city is in a strong position to address these
19	challenges effectively. We believe there is room to
20	work together to further strengthen each of these
21	bills and we look forward to that process.
22	Improving energy efficiency in the city's buildings
23	will result in a greenhouse gas emissions
24	reductions and decreased annual energy expenditure
25	citywide. Reduced demand for energy will not only

1 COMMITTEE ON HOUSING AND BUILDINGS 2 result in cost savings for New Yorkers but also 3 result in reductions in the emissions of air pollutants from the burning of fossil fuels within 4 5 buildings and at electrical power plants which yield ... which will yield a cleaner air and improved 6 7 health. Indoor air quality and public health can also be improved through better construction 8 9 materials and designs that encourage active lifestyles. The comments we are presenting today 10 11 represent our initial thoughts about these 12 introductory bills including some suggestions for 13 areas in which we can work together to reach the 14 most effective policy possible. We are looking 15 forward to hearing the testimony of today's other 16 witnesses to ensure that we fully understand the 17 technical issues raised by each of them. Intro 633 18 requiring energy efficiency reports to be filed 19 every five years would amend local law 87 of 2009 20 to require owners of buildings subject to that law to file an energy efficiency report for their 21 covered building once each five years rather than 2.2 23 once every 10 years as the law currently requires. Local Law 87 is a central tool to reducing 24 greenhouse gas emissions from our buildings. Local 25

1	COMMITTEE ON HOUSING AND BUILDINGS 13
2	Law 87 has instituted emission reductions in
3	buildings by mandating retrocommissioning. It has
4	helped building owners understand the most
5	appropriate energy efficiency retrofits available
6	to them and the payback period associated with
7	each. Local Law 87 has also provided an invaluable
8	resource of data to this city which we are using to
9	develop effective and practical energy efficiency
10	policies. Local Law 87's energy efficiency report
11	is made up of two components; the EER1 form and the
12	EER2 form. The EER1 form records the recommended
13	energy conservation measures or ECMs identified by
14	the energy auditor and the corresponding payback
15	periods for each. Example ECMs include replacing
16	old windows with triple pane windows or converting
17	your boiler from fuel oil to burn natural gas.
18	While energy audit information can be very helpful
19	to help building owners plan, to modify or purchase
20	equipment, or to make envelope improvements they
21	are not building owners are not compelled to
22	implement any of the ECMs identified under Local
23	Law 87. The EER2 form logs the retrocommissioning
24	measures that were identified during the energy
25	audit. These measures include improvements to the

1 COMMITTEE ON HOUSING AND BUILDINGS 14 2 operating protocols, calibration, and sequencing of 3 a building's energy equipment. They also include the cleaning and repair of existing building energy 4 5 systems. Examples are retrocommissioning measures include ensuring that simultaneous heating and 6 7 cooling does not occur unless intended or tuning boilers for optimal efficiency. Building owners 8 9 under Local Law 87 are compelled to implement these retrocommissioning measures. While much of the cost 10 11 from Local Law 87 reporting are paid back through 12 savings on energy consumption the fee represents a significant upfront cost that building owners may 13 find difficult to absorb. Cost for the energy audit 14 15 portion of Local Law 87 can range from 15,000 to 16 over 100,000 depending on the size and the 17 complexity of the building. For retrocommissioning 18 the range can be larger depending on the building's 19 operation and maintenance practices. If a building 20 maintains its equipment well its retrocommissioning cost can be in the area of 2,000 dollars. However, 21 cost for a building that has been deferring its 2.2 23 maintenance can become quite large. For example, if a 50 unit building with deferred maintenance needed 24 to replace its steam traps in the radiators for 25

1	COMMITTEE ON HOUSING AND BUILDINGS 15
2	each unit the cost could be in the range of 100 to
3	150,000 dollars. Energy conservation measures from
4	an energy audit can often involve purchases of new
5	equipment or improvements to a building's envelope.
6	Local Law 87's ten year reporting requirement was
7	initially designed to coincide with a typical ten-
8	year capital planning cycles for properties. The
9	energy efficiency gains that come from
10	retrocommissioning can be lost overtime when
11	operations and maintenance personnel fail to manage
12	their equipment appropriately. Conversely the
13	findings of an energy audit do not change so
14	frequently unless a property undergoes major
15	changes. As a result, there is less added benefit
16	of conducting an energy audit more frequently as
17	the findings are not likely to change markedly
18	within a five-year period barring major changes to
19	the building's use. The administration would like
20	to work with council to research the potential
21	benefits of this proposal that can lead to improved
22	operations and maintenance practices for energy
23	efficiency. A proposal should encourage building
24	owners to progress toward ongoing commissioning and
25	proper operations and maintenance practices which

1 COMMITTEE ON HOUSING AND BUILDINGS have clear benefits for energy efficiency and 2 3 reducing greenhouse gas emissions while not 4 incurring costs that would not lead to appreciable 5 energy efficiency gains. We look forward to working with council to strike this balance. Intro 701A; 6 7 low energy building requirements for certain capital projects, would establish categories of low 8 9 energy buildings, net zero energy buildings, and on-site energy producing buildings for city owned 10 11 and funded building projects. The bill would 12 require all city building projects subject to the requirements of the city charter's green building 13 14 standards to be constructed as low energy 15 buildings. The bill would also require at least 20 16 percent of the capital projects in each fiscal year 17 that are subject to these requirements to be 18 designed and constructed as on-site energy 19 generating buildings and all projects three stories 20 or lower in height to produce a study of the 21 feasibility of designing and construction, constructing such a project as a net zero energy 2.2 23 building. The Mayor's Office of Sustainability strongly supports establishing high performance 24 25 building standards that will get the city to its 80

1 COMMITTEE ON HOUSING AND BUILDINGS 17 by 50 greenhouse gas emissions reductions goals. 2 3 However, in light of current high performance construction practices the bill's definition of 4 5 what constitutes a low energy building as one whose energy use intensity is lower than that for at 6 7 least 98 percent of buildings designed and constructed for similar uses according to 8 9 benchmarking data etcetera would make compliance difficult based on the technology currently 10 available. Achievable and effective criteria for 11 12 low energy buildings needs to be determined and we look forward to working with city council to 13 14 identify the requisite standards. Requiring a study 15 of net zero energy for every project under four 16 stories that is subject to this local law, both new 17 buildings and substantial renovations would pose an 18 additional cost for many projects. The city is 19 already identifying pilot projects that readily 20 lend themselves to net zero energy performance. And 21 this process will lead to better determining the 2.2 potential for net zero energy projects going 23 forward. However, in general, our object ... objectives here are shared. Requiring 20 percent of 24 all projects to be on-site energy generating 25

1 COMMITTEE ON HOUSING AND BUILDINGS 18 2 projects may ness ... may necessitate limiting such 3 projects to older buildings without rooftop 4 mechanical equipment or may necessitate additional 5 expense for construction of space for mechanical equipment that is typically located on roof tops. 6 7 Careful... we need to carefully consider how to 8 identify and evaluate the impacts of adding on-site 9 energy generation to certain building configurations. Again however in general we 10 11 strongly support distributed generation and the 12 integration of renewable energy into our overall 13 systems. We support this important energy proposal 14 with the understanding that details concerning 15 appropriate performance metrics need to be 16 resolved. In particular, our office is excited by 17 this intro's focus on the building envelope as the 18 basis of a low energy standard as has been 19 demonstrated in a number of Passive House apartment 20 buildings throughout the city. We agree that this is the basis of an approach to defining a low 21 2.2 energy building standard. We also recognize that 23 the Passive House standards were developed initially for climates with cold winters but 24 without the hot summers that New York City 25

1 COMMITTEE ON HOUSING AND BUILDINGS 19 receives. A low energy standard developed for New 2 3 York City would need to consider these weather differences. We look forward to working with 4 5 stakeholders, council, Department of Design and Construction, the Department of Citywide 6 7 Administrative Services Education, and School Construction Authority on these refinements. Intro 8 9 721A. Green building standards for certain capital projects would amend Local Law 86 to be based on 10 11 leadership and energy and environmental design version four, cover all building occupancy classes, 12 13 raise the certification level requirement for 14 capital projects subject to lead ... to the lead 15 provisions law to lead gold and require that all such projects apply for certification with the US 16 17 Green Building Council. The intro also proposes 18 that the existing reporting requirement of the law 19 would become permanent. In addition, a new 20 provision is included which would require each 21 capital project with a modification of a site 2.2 connection to the sewer system or with an impact of 23 50 percent or more of the nonbuilding site area to reduce the storm water runoff volume. The Mayor's 24 Office of Sustainability is generally in support of 25

1	COMMITTEE ON HOUSING AND BUILDINGS 20
2	the intended goals of introduction 721A. While
3	there is clear greenhouse gas benefit coming from
4	the expansion to all building classes the impacts
5	on building types may need to be examined further.
6	And I was in my original testimony I've got
7	affordable housing specifically mentioned. And I
8	appreciate Chairman William's statement that this
9	is an area for us to work towards in the future. So
10	I'll skip over that part. It's so similar the lead
11	gold certification standards under lead version
12	four for capital projects that are required comply
13	with lead green building standards may be difficult
14	for certain projects to achieve. This is a known
15	gap between there is a known gap between previous
16	versions of lead and version four. And we would
17	like to help make any transition to lead version
18	four a smooth one. The area of green building
19	standards appears to be in a period of transition
20	which makes this Intro particularly timely. We look
21	forward to working with council and city agencies
22	to find ways to achieve our mutual goals in a cost
23	effective manner. We suggest conducting further
24	research and conversations to fully understand the
25	implications of the bill and develop a workable

1 COMMITTEE ON HOUSING AND BUILDINGS 21 solution for all involved parties. As Intro 721A 2 3 would make existing reporting requirements permanent we will work with city agencies and the 4 5 council to update the reporting requirements and reporting process so that they're easier to fulfill 6 7 and implement. Local Laws 86 and 87 are critical tools in the city's fight against climate change. 8 9 We applaud the council's efforts to cut emissions further through these amendments. Working together 10 11 I am confident that at the end of the day each of these bills will help us achieve ... all of these 12 13 bills will help us achieve our ultimate goal of 14 cutting emissions 80 percent by 2050. It is 15 critical that we continue to work with city council 16 to get these policies and their implementation 17 right. Our climate, economic, and societal goals 18 rely upon this. Thank you for the opportunity to 19 testify on this important set of legislation. I am 20 happy to answer any questions that you may have at this time. 21 2.2 CHAIRPERSON WILLIAMS: Thank you very 23 much for the testimony. I'm going to ask a couple of questions about my bill in particular and then 24

I'll pass it over to Council Member Richards. He

1	COMMITTEE ON HOUSING AND BUILDINGS 22
2	has questions about his bill. And then we'll see if
3	any other council members have questions. We've
4	been joined by Council Member Torres. Can you just
5	walk us through what is involved with meeting
6	certain lead requirements? Also will the bill… you
7	mentioned a little bit about the… the bill. Can you
8	talk about it anymore? How many projects do you
9	think will be affected by legislation?
10	DIRECTOR MESA: I mean the way the bill
11	is written out would be essentially virtually all
12	city projects that you know come up every year. I
13	don't have the exact number. But it's it's a
14	matter of like can we… you know how do we work it
15	through so that we can make sure that this is
16	something that accomplishes all of our goals at the
17	end. So… and we're… you know lead version four has
18	not yet been adapted by US Green Building Council.
19	So it's we're in a funny state of transition right
20	now with this. So I think it's more a matter of you
21	know making sure that we get like the Is dotted and
22	the Ts crossed and so forth. There are going to be
23	some issues most likely with design standards. And
24	so that's something that I think the agencies will
25	

1	COMMITTEE ON HOUSING AND BUILDINGS 23
2	need to go back and review and they'll need to
3	consider budgets as well on that.
4	CHAIRPERSON WILLIAMS: I think you
5	mentioned in the testimony some costs of
6	retrofitting. What will be the cost on average for
7	a new building to comply with different lead
8	levels?
9	DIRECTOR MESA: So in part it's a matter
10	of… it's hard to put a number on it because in part
11	it's a matter of how the building is designed from
12	the beginning and what the purpose is of the
13	building and what the uses are that are going to be
14	in it. I mean generally you know if you design… if
15	you design a building right from the start it's not
16	a huge bump necessarily on energy and it's things
17	that can be recouped at the end of the day. But it
18	a lot of it really is sort of case by case and
19	depends on how you know what the building's used
20	for, how many people, how complicated the systems
21	are. And that's partly why we really like the focus
22	on the façade and and you know that side of it.
23	Because if you focus on having a a well-made you
24	know façade that's that that's very it allows
25	for a lot of efficiency then that means that you

1	COMMITTEE ON HOUSING AND BUILDINGS 24
2	can downsize the systems that that are within the
3	building and then it also becomes easier to operate
4	at the end of the day. But it's all it's the the
5	standards are changing as we speak I mean And
6	there are standards that haven't yet been developed
7	and… and tried in New York City with this. So it's
8	a matter of like we need to think this stuff
9	through to get it right.
10	CHAIRPERSON WILLIAMS: How much would a
11	building owner save long term?
12	DIRECTOR MESA: It depends on I mean
13	I'm sorry I don't… I don't mean to be you know
14	vague but it's it just depends on on the building
15	but you could potentially save a lot. I mean on
16	some of the Passive House construction that has
17	been done the energy costs have come down like 40
18	percent 60 percent, something like that. So I mean
19	it's pretty dramatic on some of these. But you know
20	we don't we don't quite have all of these we
21	don't have the designs yet. We don't have it set up
22	yet. It's too… it's too new. But this is where we
23	want to go.
24	CHAIRPERSON WILLIAMS: And you had some
25	examples but can you walk through a little bit

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 better... a little bit more what it takes to... to get
 to lead.

4 DIRECTOR MESA: The real important thing 5 is to have a unified vision at the beginning of a process on lead. You know we're the ... or whoever's 6 7 the client and the ... you know the architect and the ... the engineers and so forth all understand that a 8 9 building has to meet a certain kind of performance level, a certain set of criteria. And then that's 10 11 how you get the cost to come down. If you don't 12 have a process like that set up, then changes are 13 made along the way and then that's when the ... the 14 costs go up. But there's any number of categories 15 that come up under lead that are also like not 16 having to do with energy, that have to do with 17 things like percentage of recycled content in... that 18 goes into you know the buildings. Sometimes it's a ... 19 sometimes some of the challenges are where the ... you 20 know that the markets aren't yet fully developed 21 because the way that Lead has evolved has been as a way to spur market development in particular areas 2.2 23 by setting the standard and thinking that you know if you set the standard a certain way then the 24 25 markets will follow in there... and people will start

1 COMMITTEE ON HOUSING AND BUILDINGS 26 2 providing the materials that are called for. So... so 3 sometimes there are things that are available and 4 it's... and it's great. And then other times there are things where it's just ... they may be available 5 but they're also really expensive to use in a 6 7 building and they may or may not have the kind of ... 8 you know as important effects ... so like if you're 9 spending a chunk of change on a particular thing that's... that's not so easily available perhaps you 10 11 could be using that money towards something else 12 that would be you know that would get you more environmental benefits. So it's kind of a tradeoff 13 14 in the design process and then you know the 15 implementation of it. 16 CHAIRPERSON WILLIAMS: Thank you. Let me 17 call on Council Member Richards now. See if he has 18 any questions particular on his bill. 19 COUNCIL MEMBER RICHARDS: Thank you. 20 Thank you Chairman. And thank you Nilda. Can we just go through a few things? So how many 21 2.2 buildings ... well first off let me ... well I guess we 23 should start this way. When was the last filing the... that we had here in the city? 24

1	COMMITTEE ON HOUSING AND BUILDINGS 27
2	CHAIRPERSON WILLIAMS: For the for the
3	energy efficiency… [cross-talk]
4	COUNCIL MEMBER RICHARDS: Mm-hmm.
5	CHAIRPERSON WILLIAMS:reports. So
6	they're they're required to be done well they're
7	they come they basically come through annually.
8	And it's been two years that this has been in
9	operation. So while the original law was passed in
10	2009 it's been since 2013 that these really you
11	know have started coming through.
12	COUNCIL MEMBER RICHARDS: And how many
13	filers did we have?
14	DIRECTOR MESA: Let's see 2,000
15	buildings report each year on 13 hundred tax lots.
16	COUNCIL MEMBER RICHARDS: So 2,000
17	buildings and 13 hundred tax lots?
18	DIRECTOR MESA: Yeah.
19	COUNCIL MEMBER RICHARDS: Total?
20	DIRECTOR MESA: So it's over 20,000
21	buildings.
22	COUNCIL MEMBER RICHARDS: Okay.
23	DIRECTOR MESA: Essentially. On 13,000
24	tax lots.
25	

1	COMMITTEE ON HOUSING AND BUILDINGS 28
2	COUNCIL MEMBER RICHARDS: And did we
3	have any delinquencies? Did everybody file? Or how
4	many buildings were outstanding?
5	DIRECTOR MESA: My understanding is that
6	there… there were a few but I don't have the exact
7	number with me so… but I'm happy to get you that.
8	COUNCIL MEMBER RICHARDS: Sure. If you
9	can
10	DIRECTOR MESA: But it's but it's
11	pretty good.
12	COUNCIL MEMBER RICHARDS: Okay.
13	DIRECTOR MESA: It's a pretty high level
14	of… [cross-talk]
15	COUNCIL MEMBER RICHARDS: Okay but
16	[cross-talk]
17	DIRECTOR MESA:compliance.
18	COUNCIL MEMBER RICHARDS:if we can get
19	that that [cross-talk]
20	DIRECTOR MESA: Yeah.
21	COUNCIL MEMBER RICHARDS:would be
22	appreciated. Any reason that we are limiting in
23	particular the… the filings to large buildings and
24	not thinking of medium sized buildings or smaller
25	buildings?

1	COMMITTEE ON HOUSING AND BUILDINGS 29
2	DIRECTOR MESA: We would like to have
3	medium sized and smaller buildings in there in
4	fact.
5	COUNCIL MEMBER RICHARDS: Okay. That's
6	good to hear. Can you just walk us through… so what
7	does an energy efficiency audit look like?
8	DIRECTOR MESA: So there are two parts.
9	COUNCIL MEMBER RICHARDS: Mm-hmm.
10	DIRECTOR MESA: So one of them is an
11	energy audit which looks at the whole building and
12	the systems in the building and how a building
13	performs in general and what its like energy use
14	intensity is per square foot. And then the other
15	component is the commissioning part of it or
16	retrocommissioning which looks at the building
17	system. So for example it would look at the heating
18	and cooling systems. And it would look at how well
19	those systems perform. So the second one… anything
20	that turns up in there the building owner is
21	required to fix and required to improve. The first
22	one, not necessarily. The first one they can say oh
23	you know you should be installing windows, here's
24	the payback period, and those are the kinds of
25	things that would be… you know that… I… my

1	COMMITTEE ON HOUSING AND BUILDINGS 30
2	understanding is that initially when the bill was
3	passed the people thought that this would be part
4	of an overall longer capital planning process or
5	you know capital process for building owners.
6	COUNCIL MEMBER RICHARDS: So on the
7	second one they would be required to fix it so
8	[cross-talk]
9	DIRECTOR MESA: Correct.
10	COUNCIL MEMBER RICHARDS:heating
11	system was… [cross-talk]
12	DIRECTOR MESA: The second one is the
13	one that can that the second one is the one that
14	can show like the real that can have like real
15	paybacks right away. You know if they find stuff
16	that's you know broken for example or you know
17	sometimes what may happen is that you know a
18	heating and cooling system may get installed and
19	somebody messed up somewhere on the installation
20	and so it's actually not performing the way that
21	it's supposed to perform. It's a good thing for a
22	building owner to you know go back and take a look
23	and see. Or it could be that something's broken
24	along the way you know well after it's been
25	installed. And and the building owner through

1	
1	COMMITTEE ON HOUSING AND BUILDINGS 31
2	retrocommissioning can see you know what it is that
3	you know really could be fixed or improved or
4	tweaked or you know anything like that. So it's
5	pretty useful tool.
6	COUNCIL MEMBER RICHARDS: So the they
7	would report this to the Department of Buildings
8	[cross-talk]
9	DIRECTOR MESA: Yeah.
10	COUNCIL MEMBER RICHARDS:of course
11	through through the filing so
12	DIRECTOR MESA: Yeah.
13	COUNCIL MEMBER RICHARDS:they would
14	show if they fixed whatever the problem was. They
15	would that would have [cross-talk]
16	DIRECTOR MESA: That's a good question.
17	I have to go back and and double check and make
18	sure that there's a way to that they do that. But
19	that's a so okay I'm being told yes they do have
20	to fix it and that that is enforced.
21	COUNCIL MEMBER RICHARDS: Okay. So let's
22	just go through cost pretty quick. Can you just go
23	through because I I saw in your testimony you said
24	it can range from 15,000 to over 100,000 dollars
25	depending on the size of the building and the

1	COMMITTEE ON HOUSING AND BUILDINGS 32
2	complexity. But you also said that as we all know
3	that you know by making your building more energy
4	efficient you obviously would generate savings
5	which are probably pay these things off in
6	particular depending on the building. So can you
7	just go through cost a little bit? I know you can't
8	give us… [cross-talk]
9	DIRECTOR MESA: Yeah it's hard to do
10	[cross-talk] because they're so… it's hard to do
11	because it's it really it's like so one off you
12	know with buildings. But
13	COUNCIL MEMBER RICHARDS: Well just give
14	us an example if you can.
15	DIRECTOR MESA: I mean I'm just thinking
16	about you mean overall on the on like the
17	heating I mean it just depends on the size of the
18	building and the complexity of the system and the
19	age of the building and the age of the system. So
20	for example you could have a building that's not
21	really ever been well maintained that has you know
22	a boiler that's gotten way out of calibration. And
23	at the same time it has air conditioning that kicks
24	in you know when the temperature gets at above you
25	know a certain point. And so you can have both of
I	I

COMMITTEE ON HOUSING AND BUILDINGS 1 things conceivably. And I've seen this in buildings 2 3 you know that you have both of these systems 4 running at the same time. Whatever season of the 5 year. And if you have something like retrocommissioning you can ... you know you can fix 6 7 that. But it can be ... but you can also have systems that you know say somebody buys a building that has 8 9 not been well maintained for many years and these systems are incredibly old and it can just cost a 10 11 lot to you know fix this stuff. And the payback 12 periods are going to be different depending on the use of the building and the number of tenants and 13 14 so forth and the ... you know whether it's commercial, 15 whether it's ... how the ... and how the energy bills are 16 calculated. So some cases you're going to get a 17 really quick payback period and other cases it's 18 going to be you know much much longer. 19 COUNCIL MEMBER RICHARDS: So how much 20 would an energy audit cost on average? 21 DIRECTOR MESA: 25 to 50 cents a square foot. 2.2 23 COUNCIL MEMBER RICHARDS: Okay so 25 ... 50 ... And you ... that that is too much of a hardship on 24 25

1	COMMITTEE ON HOUSING AND BUILDINGS 34
2	buildings to be able building owners to be able to
3	do an energy audit every five years?
4	DIRECTOR MESA: The on the energy
5	audit. It depends on the building.
6	COUNCIL MEMBER RICHARDS: Okay.
7	DIRECTOR MESA: It's just these are
8	these are more like possibilities. These are more
9	this is like as a… as a you know an effort to say
10	like you know this is… these are areas where we can
11	maybe tweak things and then you know improve stuff
12	or whatever and address some of the stuff.
13	COUNCIL MEMBER RICHARDS: And so would
14	you say that ten years is sufficient at this
15	moment. And I I guess I'm saying that because the
16	pope has said today that you know we should move in
17	a very aggressive state when we're looking to
18	address climate change and we know that buildings
19	are obviously the number one emitter for for
20	carbon emissions
21	DIRECTOR MESA: Right.
22	COUNCIL MEMBER RICHARDS:in the city.
23	So is 10 years… would you say when I have more gray
24	hair in ten years is that adequate enough time
25	

1	COMMITTEE ON HOUSING AND BUILDINGS	3
2	adequate time for for buildings to to do audits?	
3	Should we wait… [cross-talk]	

DIRECTOR MESA: It's ... I mean I think we 4 5 can talk about you know the ... you know what's the right year or something. It's more a matter of 6 7 what's the best way to allocate scarce resources to 8 get the biggest you know environ ... or to ... the 9 biggest greenhouse gas emissions reductions you know. So it may be that there are different 10 11 strategies for different building types depending 12 on their age and so forth. That's part of the work 13 that's ongoing now with the Technical Working Group 14 is to figure out like what are the really ... where do 15 we want to put you know our investment in these buildings to get us the ... the best return on ... you 16 17 know on these investments and the most effective 18 ways of bringing down greenhouse gas emissions. You 19 know so I think it's just ... I think it's that. It's 20 not ... I mean we are all in favor obviously of being 21 aggressive about bringing down greenhouse gas emissions. It's more a matter of you know really 2.2 23 what's the best way to do it. COUNCIL MEMBER RICHARDS: And then ... 24

25 [cross-talk]

1	COMMITTEE ON HOUSING AND BUILDINGS 36
2	DIRECTOR MESA: And which is why I say
3	like the retrocommissioning is that's pretty
4	useful information for building owners to have and
5	they're required to do it. You know whereas the
6	energy audits as they're building wide they may be…
7	they may have different payback periods for
8	different strategies that are you know are in
9	there.
10	COUNCIL MEMBER RICHARDS: Mm-hmm. I'm
11	going to wrap up in a second. Can we just speak
12	about the Department of Buildings for a second? So
13	do you foresee any strain on the Department of
14	Buildings if we were to… to move towards five
15	years? Do you see more strain? And would DOB need
16	any additional resources obviously if there is a
17	strain to ensure that these filings are… are… are
18	occurring?
19	DIRECTOR MESA: I'd say yes to both.
20	COUNCIL MEMBER RICHARDS: Okay. And how
21	much? Do we have a cost estimate or
22	DIRECTOR MESA: We can get you that.
23	COUNCIL MEMBER RICHARDS: And do we know
24	how many people actually are in in particular the
25	

1 COMMITTEE ON HOUSING AND BUILDINGS 37 audit division I'm sure doing this sort of work or 2 tracking it now? Do we have a particular number? 3 DIRECTOR MESA: I... I know it's not 4 5 enough. COUNCIL MEMBER RICHARDS: Okay. It's not 6 7 enough. Okay. Alrighty. And then I just ... just my last question. So would ... would the 8 9 administration be open to obviously looking at ... in particular new constructions coming up and ... and ... 10 11 and obviously as we move forward pushing them 12 towards a... a five year filing rather than a 10. And 13 it ... would that be something you're open to? 14 DIRECTOR MESA: Maybe. 15 COUNCIL MEMBER RICHARDS: Okay. Alrighty well... [cross-talk] 16 17 DIRECTOR MESA: I mean generally it's a ... 18 you know we really like the direction you know that 19 these are going. And we really appreciate your 20 partnership on this because it's going to be 21 critical for us to get the city you know even more 2.2 quickly on these paths. So it's... it's terrific that 23 you've come up with these and we really look forward to working with you to get it going. 24

1	COMMITTEE ON HOUSING AND BUILDINGS 38
2	COUNCIL MEMBER RICHARDS: Thank you
3	Nilda. Thank you Mr. Chairman.
4	CHAIRPERSON WILLIAMS: Thank you. We
5	have a… one person sign up for questions. Council
6	Member Torres are you ready? And then I'll have
7	some follow-up questions and then that'll be it. We
8	been we were joined by Council Member Wills
9	briefly and we're also joined by Council Member
10	Levine.
11	COUNCIL MEMBER TORRES: How are you
12	Commissioner?
13	DIRECTOR MESA: I am well. How are you
14	Councilman… [cross-talk]
15	COUNCIL MEMBER TORRES: So I just want
16	you to elaborate on on what you see as the what
17	could be the unintended consequences of Intro 721A.
18	So do you have has the administration have some
19	sense of what kind of impact it would have on
20	affordable housing development?
21	DIRECTOR MESA: Well right now there's
22	a… there's a separate and I believe there's going
23	to be testimony you know later on… [cross-talk]
24	COUNCIL MEMBER TORRES: Yes.
25	
I	

1	COMMITTEE ON HOUSING AND BUILDINGS 39
2	DIRECTOR MESA:this. But there is a a
3	system that's been developed that's focused on
4	affordable housing and is meant to provide
5	environmental benefits along with being cost
6	effective. So because that's that's sort of at the
7	nub of the construction you know a lot of
8	affordable housing. So I will leave it to them and
9	also to Chair Williams about…
10	[pause]
11	COUNCIL MEMBER TORRES: Okay. Thank you.
12	DIRECTOR MESA: Yeah.
13	CHAIRPERSON WILLIAMS: Thank you. Just a
14	couple of more questions. The first in your
15	testimony… I believe it was on 701 you… you may…
16	you mentioned that making compliance would be very
17	difficult based on the technology currently
18	available. We were trying to figure out if it's
19	difficult why are at least two percent of the
20	buildings doing it.
21	DIRECTOR MESA: I don't know that
22	they're using that technology to measure it. I
23	think it's sort of like a happy coincidence you
24	know that as it turns out that you know they're at
25	that point. But there are… so some of this is… is

1 COMMITTEE ON HOUSING AND BUILDINGS 40 work that's now being studied by our technical 2 3 working group. And you know we ... we've got the engineering firm that's you know really helping us 4 5 trying to work through all of these building typologies. And you know some of it's a matter of 6 7 we don't quite have all the data that we need yet on this. But you know that's the work of this 8 9 group. CHAIRPERSON WILLIAMS: Also on 701 for 10 11 new buildings will this get us where we need to get 12 to for 80 by 50? 13 DIRECTOR MESA: Not entirely, no it 14 wouldn't. But it's a... it would be an important ... you 15 know this ... these kinds of approaches are important steps to get there. 16 17 CHAIRPERSON WILLIAMS: And a similar 18 question for 721 would it help the city make its 19 goal by 80 50? 20 DIRECTOR MESA: Yeah it would certainly 21 help us get there but it's not ... you know every ... everything has a role to play but there's no silver 2.2 23 bullet when it comes to reaching 80 by 50. So ... which is why we included you know solid waste. And 24 25 when we came out with One NYC we included solid

1	COMMITTEE ON HOUSING AND BUILDINGS 41
2	waste and transportation and the electric grid or
3	I should say the… the energy system really in all
4	of that. Because it's going to take all of these
5	sectors together to get us to 80 by 50.
6	CHAIRPERSON WILLIAMS: Alright well
7	that's all the questions for me. So I want to thank
8	you so much for coming taking our questions and
9	for your testimony and for your partnership.
10	DIRECTOR MESA: Thank you very much. And
11	look forward to working with you.
12	CHAIRPERSON WILLIAMS: Same here. The
13	next panel we have up Laurie Kerr from Urban Green
14	Council and Mr. or Mrs. Parikh from NYSERDA. Okay.
15	You're… you're… oh… yeah. And the panel after this
16	will be Stas Zakurtz… Zukurtski… Zakrzewski, sorry,
17	from NYPH, Ken Levenson from NYPH New York Passive
18	House, and Buck Moorhead from New York Passive
19	House will be on the panel following this one.
20	Thank you. Can you both raise your right hand
21	please. Do you affirm to tell the truth, the whole
22	truth, and nothing but the truth in your testimony
23	before this committee and to respond honestly to
24	Council Member questions? We'll put when he gets a
25	

1	COMMITTEE ON HOUSING AND BUILDINGS 42
2	chance three minutes on the clock for your
3	testimony. And you can begin at your convenience.
4	LAURIE KERR: Good morning Chairperson
5	Williams and members of the committee. I am Laurie
6	Kerr, the Director of Policy for the Urban Green
7	Council. And I am testifying in favors of Intros
8	701A and 721A. Regarding Intro 701A; to achieve 80
9	by 50 our calculations indicate that new buildings
10	in the city of New York will need to use roughly 65
11	percent less energy than similar buildings do now.
12	To achieve this large scale transformation, we need
13	much more experience creating low energy buildings.
14	With that in mind we offer four ideas for
15	improvement of this bill. We would anchor the
16	definition of low energy building to measured
17	energy use starting by cutting energy use in half
18	and stepping that up to a 65 percent reduction. To
19	give some alternative pathways for our complex
20	buildings we would define a low inner building
21	energy building as either using half as much energy
22	as the current average for the type, using 60
23	percent less energy than a similar building modeled
24	by, or to be certified Passive House. An Urban
25	Green analysis indicates that the two metrics the

1 COMMITTEE ON HOUSING AND BUILDINGS 43 98th percentile metric currently in the 50 percent 2 3 energy reduction would create pretty similar targets but we think that the 50 percent definition 4 5 is more statistically robust when making a clearer connection to 80 by 50 goals. Two, we propose 6 7 Passive House pilots. Passive House has not been systematically refined for the complex range of 8 9 building types that the city builds and no city buildings and no city buildings have yet been built 10 to that standard. We need to learn whether the 11 city's buildings could meet that standard and what 12 issues might arise in terms of cost, schedule, 13 14 availability of materials, procurement, labor, or 15 design therefore we recommend a pilot program of 16 four to five Passive House projects each year, each 17 of different building type. Three, we would expand 18 the reporting requirements regarding the low energy 19 program in Section 5. Since the main benefit of 20 having the city lead by example is to help the New York City community learn from the experience. 21 Therefore, the reporting should include data about 2.2 cost and performance, analysis of issues 23 encountered, and policy recommendations for the 24 city government and private sector. Four, we do not 25

COMMITTEE ON HOUSING AND BUILDINGS 1 44 think there need to be additional requirements for 2 3 on-site energy generating buildings. On-site 4 generation should be one of the strategies used to 5 achieve the low energy targets preferentially requiring this strategy or any other specific 6 7 strategy would increase cost without clear 8 benefits. Regarding Intro 721A we fully support the 9 numerous improvements to Local Law 86 in this intro. We think however that the law could be 10 11 streamlined to make it easier and less costly 12 without losing any impact. If low energy buildings are required as per 701-A meaning that buildings 13 14 use 50 percent less energy there's no need to 15 require B2I which require 20 percent improvements 16 in the analysis of 25 percent improvements. 17 Reconciling such complexities might argue for 18 combining the two bills. Finally, the reporting 19 requirements should be tied more directly to lead 20 and any other information the city needs in order 21 to decrease the time spent on unnecessary 2.2 paperwork. Thank you. And I invite any questions. 23 ASIT PARIKH: Hi. How are you. My name is Asit Parikh. I jotted down my background. Let me 24 just elucidate you quickly. I am a NYSERDA partner 25

1 COMMITTEE ON HOUSING AND BUILDINGS for the Multi-Founded Performance Program with 2 3 engineering architecture firm. I am the first 4 engineering firm to be on the list since the 5 program's inception since 2007. And I'm also a provider for the Local 84 and 87 program. I've 6 7 retrofitted myself personally over 150 million square feet in New York City which by the way we 8 9 charge five to seven cents per square foot, not 25 cents per square foot for the audit. One of the 10 11 most critical components of the energy audit which 12 wasn't mentioned earlier was a analysis of the utility bills. We start by looking at what the 13 14 building is consuming. Then you go into the 15 building and look for what those problem areas are. 16 To add to my background, the firm I work with was 17 A, started by my father who was at HPD for 28 years and retired as Assistant Commissioner under Ed 18 19 Koch. And we also are the only ... the designers of 20 the only net zero energy affordable housing in the world which exists in New Orleans after hurricane 21 Katrina in the lower 9th ward [sp?]. I am also a 2.2 23 Passive House designer and experienced builder which is to say I put money in my own pocket and 24 25 built my own Passive House out of my own savings.

1	COMMITTEE ON HOUSING AND BUILDINGS 46
2	And I also get monthly at a bill I'm sorry a
3	check, not a bill, from the electric company. It is
4	a positive energy Passive House that was a retrofit
5	new construction located right here in the New York
6	City area. Folks there's a lot of bad buildings out
7	there and there's a lot of buildings that are
8	touted as green buildings, lead buildings, which
9	are very very bad with energy performance. One
10	example, One Bryant Park. It's tout… it's a lead
11	platinum building. It literally uses more energy
12	per square foot than the 80-year-old empire state
13	building. There's a divergence here that needs to
14	made a distinction between a prescriptive standard
15	like Lead which ends up creating a lot of
16	complexity in the building, a lot of extra things
17	that cost a lot of money but don't really deliver
18	the goods. And there's a performance base standard
19	like Passive House which I advocate strongly in
20	favor of. It is not a complexity. It's as complex
21	as a root cellar that was used generations ago to
22	keep vegetables cool. It's as complex as the green
23	house on the south side of your elementary school
24	growing up. It's as complex as 4,000-year-old
25	concrete structures in Asia that somehow in 110-

1 COMMITTEE ON HOUSING AND BUILDINGS 47 degree heat stay cool on the inside and they have 2 3 natural ventilations. That's the complexity of Passive House. There is no risk in it. In fact, 4 from working with NYSERTA and Con Edison there's a 5 network, there's an army of contractors out there 6 7 that are really good at air sealing and insulating 8 and the types of low technical abilities required 9 to achieve this performance standard. It's 10 achievable. The contractors are out there today. 11 And the health benefits are really available from the moment the construction is complete. We don't 12 13 need to wait ten years for Councilman Richard's 14 hair to get white. Passive Houses can be built in 15 the same time and for the same money as regular 16 construction. Thank you. 17 CHAIRPERSON WILLIAMS: Thank you for 18 your testimony. I don't know if you'll be white in 19 ten years. I hope not. I'm trying to hold on myself 20 SO... 21 COUNCIL MEMBER RICHARDS: I just want to 2.2 thank you ... ASIT PARIKH: Your welcome. 23 24 25

1	COMMITTEE ON HOUSING AND BUILDINGS 48
2	COUNCIL MEMBER RICHARDS:for your
3	testimony. We're actually building the first
4	Passive House building in the Rockaways actually.
5	ASIT PARIKH: Right… [cross-talk]
6	COUNCIL MEMBER RICHARDS: Affordable
7	housing complex. So I want to certainly thank you
8	for your leadership on that. Can you just speak a
9	little bit more on on the energy audit stuff that
10	you… [cross-talk]
11	ASIT PARIKH: Sure.
12	COUNCIL MEMBER RICHARDS:think
13	[cross-talk]
14	ASIT PARIKH: Have a lot experience.
15	COUNCIL MEMBER RICHARDS:that this is
16	feasible or
17	ASIT PARIKH: Okay so with regards to
18	audits it was mentioned quite nicely earlier that
19	there are many types of buildings out there. And
20	the lower hanging fruits… like redundant systems,
21	older equipment through the NYCERTA program and
22	buildings were in fact incentivized to approach me
23	on a market based basis and go in there as an
24	auditor, come up with ECMs energy conservation
25	measures, follow those measures through `till the
	I

1	COMMITTEE ON HOUSING AND BUILDINGS 49
2	end, and after the program's complete to go back
3	one year and benchmark. Now on retrofits of old New
4	York City housing stock; I'm talking Sheepshead
5	Bay, Brooklyn, Queens, East Harlem, West Harlem,
6	Upper West Side, West Village… these are projects I
7	have on the boards right now. The average retrofit
8	savings… retrofit we're… we're getting is 25 to 35
9	percent base energy savings. Passive House retrofit
10	and expansion the one I've been involved in
11	there's been 110 percent savings which is to say we
12	get money back from the electric company. Passive
13	House new construction on average will be at least
14	a 90 percent savings, closer to 95 percent over the
15	average construction being done today.
16	COUNCIL MEMBER RICHARDS: Alright thank
17	ASIT PARIKH: Did I answer your
18	question? Okay.
19	COUNCIL MEMBER RICHARDS: Yes, thank
20	you.
21	CHAIRPERSON WILLIAMS: Thank you very
22	much for your testimony. Ms Ms. Kerr I was trying
23	to figure out So you're basically supportive of
24	the bills, just think that we need to make some
25	changes and adjustments?

1	COMMITTEE ON HOUSING AND BUILDINGS 50
2	LAURIE KERR: Yes, yes I am on the
3	whole. I think that the definition for a low energy
4	building at this point needs some refinement. I
5	also think that a Passive… a pilot program for
6	Passive House should be added to the bill so that
7	we get experience with that. And then in addition I
8	think we need more reporting requirements. And we
9	don't need low the on-site energy generating
10	building component. So those would be the
11	modifications. But yes in general we're in favor of
12	both bills.
13	CHAIRPERSON WILLIAMS: You're in favor
14	of three bills or you're talking about if we
15	combined the two?
16	LAURIE KERR: I think it would might be
17	easier to combine the two.
18	CHAIRPERSON WILLIAMS: Alright.
19	LAURIE KERR: Logically. Because right
20	now there are some conflicts and duplicative
21	efforts.
22	CHAIRPERSON WILLIAMS: Mr is it
23	Parikh? What was your official opinions on the… on
24	the bills?
25	

1	COMMITTEE ON HOUSING AND BUILDINGS 51
2	ASIT PARIKH: I'm in favor of it
3	strongly.
4	CHAIRPERSON WILLIAMS: Okay.
5	ASIT PARIKH: Thank you.
6	CHAIRPERSON WILLIAMS: Thank you. Thank
7	you very much for your testimony. Appreciate it.
8	LAURIE KERR: Your welcome.
9	CHAIRPERSON WILLIAMS: Okay. So I I
10	apologize we have a bunch of hearings here today so
11	I'm going to have to cut back testimony time to
12	2:00 and then hopefully any questions that we have
13	we'll get to get through the rest of what you need
14	to say. We have Stas Zakrzefski… Zakrzewski, Ken
15	Levenson, Buck Moorhead. And after that we'll have
16	Chris Benedict, David White, and Katrin Klin…
17	Klingen… Klingenberg, sorry thank you. Can everyone
18	please raise their right hand? Do you affirm to
19	tell the truth, the whole truth, and nothing but
20	the truth in your testimony before this committee
21	and to respond honestly to council member
22	questions? You can begin at the order of your
23	preference. Thanks.
24	BUCK MOORHEAD: Hi. My name is Buck
25	Morehead. I'm speaking on behalf of New York
I	

1 COMMITTEE ON HOUSING AND BUILDINGS 52 2 Passive House. New York Passive House is a not-for-3 profit with 180 professional members since 2010 as it affiliated with a Passive House Institute. I 4 5 also speak for Damascus Citizens for Sustainability and NYH20. It is understood that about 80 percent 6 7 of New York City's carbon emissions are related to 8 its buildings. It is essential therefore to reduce 9 building energy use to reach our 80 by 50 goal. As cited in one city built to last the ... building 10 11 energy... energy conservation strategies and 12 protocols embedded in Passive House represent an 13 essential tool to reduce overall building energy 14 use. It is important to clearly understand that we 15 must substantially reduce our overall energy 16 requirements, particularly heating and cooling 17 energy requirements through high performance 18 building envelope design as developed through 19 Passive House. Only once we have substantially 20 reduced our energy requirements can we then use 21 renewable energy options to provide for a much 2.2 lower energy that the building then requires. This 23 was clearly understood by the speaker and city council members in the original drafting of 701A 24 that mandated New York City capital projects meet 25

1 COMMITTEE ON HOUSING AND BUILDINGS 2 Passive House standards. The language of the 3 version under consideration today includes a 4 definition for a low energy building. We understand 5 and strongly support that it is the intent and expectation of the city council that this 6 7 definition will mandate and produce Passive House 8 or near Passive House level projects. It is 9 important to confirm that this will indeed be the outcome. New York Passive House strongly supports 10 11 that the definition of low energy building 12 establishes a Passive House level result. This definition does not need to be branded as Passive 13 14 House institute. In fact, it is stronger if it is 15 unbranded. What is critical is that a building's energy performance be predictable and measurable 16 17 and that the quality of outcome can be assured 18 through the process. We feel that this is 19 challenging but readily achievable standard for New 20 York City capital projects. This Passive House low level low energy building should be phased in over 21 2.2 five years allowing New York City to choose those 23 projects to begin with where the ... where it is thought that this low energy building standard can 24 25 be met. One potential scenario do 20 percent of New

1	COMMITTEE ON HOUSING AND BUILDINGS 54
2	York City capital projects to this new Passive
3	House level low energy standard the first year
4	scale up each succeeding year to 100 percent by the
5	fifth year. Let me finish by saying that Mayor de
6	Blasio in one city built to last has made it clear
7	that he wants New York City to be a global leader
8	by its example. Most of us in this room I imagine
9	want the same thing. To lead we must build Passive
10	House level low energy buildings. We applaud the
11	speaker, the city council, and the mayor's office
12	for showing the way.
13	KEN LEVENSON: Thank you Chairman and
14	council members. I want to reiterate my colleague's
15	sentiments that we strongly support the intent of
16	this bill in mandating near Passive House building
17	efficiency and performance. Earlier versions of the
18	bill provided [cross-talk]
19	CHAIRPERSON WILLIAMS: Can you please
20	just state your name for the record?
21	KEN LEVENSON: Oh I'm sorry. Ken
22	Levenson, President of New York Passive House.
23	Earlier versions of the bill provided for explicit
24	branded Passive House certification. While we
25	believe that Passive House certification offers the
I	

1 COMMITTEE ON HOUSING AND BUILDINGS 55 2 surest path to reach our city's goals we appreciate the more generic term low energy building to 3 4 represent this efficiency and we support it. But 5 the definition of a low energy building should not be set in relation to our existing building stock. 6 7 Passive House performance is possible and is happening. It results in a 90 percent reduction in 8 9 heating and cooling energy demand and approximately a 75 percent reduction in overall energy use. It 10 11 allows us to leapfrog halfway measures. Passive 12 House does this by mandating very small spaced heating and cooling loads. These low allowances 13 14 then permit greatly reduced mechanical systems, 15 reduced and right sized mechanical systems in turn 16 save money in the construction making Passive House 17 affordable. By relying on very small heating and 18 cooling systems the building enclosure must provide 19 excellent thermal protection and internal energy 20 loads must be held low requiring equipment in ... 21 requiring efficient equipment inside the building. This combination of efforts, this methodology 2.2 23 produces a much more predictable and reliable ... reliable result. On the other hand, if we do half 24 measures the building enclosures remain relatively 25

1 COMMITTEE ON HOUSING AND BUILDINGS 2 mediocre and performance becomes unpredictable. 3 Systems can't be optimized. Cost saving 4 opportunities are unrealized. The results are much 5 more unreliable. Passive House is one of the world's most powerful tools ... is one of the most 6 7 powerful tools at New York City's disposal and we should use it. We look forward to working with you. 8 9 Thank you.

10 STAS ZAKRZEWSKI: Hi, my name is Stas Zakrzewski. I'm an architect and a New York Passive 11 12 House board member. Thank you to the speaker and many other city council members for pursuing this 13 legislation. There are over 25 thousand Passive 14 15 House buildings in Europe. If we take a look at Belgium, a country that in 2001 had the worst 16 17 levels of thermal insulation of all of Europe, all 18 of the European countries. In 2004 the region of 19 Brussels instituted an exemplary building program 20 and chose to target similar metrics to Passive House for old or new ... new and renovated buildings. 21 Every year the program encouraged and showcased 2.2 23 projects that were the best in their class in regards to energy efficiency. The city provided 24 25 small grants and knowledge centers so that advice

1 COMMITTEE ON HOUSING AND BUILDINGS 57 2 could be given to owners, architects, and 3 contractors on how best to achieve Passive, or near Passive House levels. In 2010 all new public 4 5 buildings had to be designed and built to this standard. As a result, between 2007 and 2012 5.1 6 7 million square feet of sustainable construction had been built. And of that 3.2 million square feet met 8 9 the Passive House standard. In that same period Brussels achieved 20 percent decrease in greenhouse 10 11 gas emissions. And we're talking about the same 12 building types of typology that we have here in New 13 York City. The program was so successful that as of January 1st, 2015 Passive House standard is 14 mandated for all new and substantial renovation for 15 housing, schools, and offices in Brussels. It's 16 17 exciting to witness this movement growing rapidly 18 in the US. The Pennsylvania Housing Finance 19 Authority recently added Passive House 20 certification as an incentive to developers when 21 submitting applications to receive low income 2.2 housing tax credits. This year 30 percent of PHFA 23 finance projects are expected to be built to this standard. So we're looking back in New York. We're 24 25 on a great ... we are in a great situation. Here. We

1	COMMITTEE ON HOUSING AND BUILDINGS 58
2	already have dozens of Passive House buildings
3	built and many more in the process of getting
4	built. We happen to have the US City with the most
5	certified Passive House professionals. To meet one
6	mayor's one city our mayor's one city built to
7	last 80 by 50 goal let's specify a standard that is
8	equal to the Passive House standard. And let's
9	start with the easiest buildings. Finally, if the
10	private sector is able to design the world's
11	tallest Passive House, a 26 story dormitory
12	building on Roosevelt Island then we should ask
13	ourselves why can't we build smaller scale office
14	buildings, libraries, and schools to this standard.
15	The answer is we can and we should. Thank you.
16	CHAIRPERSON WILLIAMS: Thank you very
17	much for your testimony, taking the time today. I
18	don't think any of my colleagues signed up for any
19	questions which means you answered them all in your
20	excellent testimonies. So thank you very much. I
21	appreciate your time. And thanks for the support.
22	Next up we have Chris Benedict, David White, Katrin
23	Klingenberg from Passive House. After that we have
24	we have just one more after Ms. Elizabeth Shorehan
25	[phonetic] and Paimaan Lodhi from REBNY. So Mr.

1	COMMITTEE ON HOUSING AND BUILDINGS 59
2	Lodhi and Ms. Shorehan will be the next panel.
3	Right now we have Chris, David, and Katrin. If you
4	can please all each raise your right hand. Do you
5	affirm to tell the truth, the whole truth, and
6	nothing but the truth in your testimony before this
7	committee and to respond honestly to council member
8	questions? You can begin at your convenience. And
9	when one finishes the next one can just begin. Also
10	we were joined by Council Member Rodriguez earlier
11	and we're joined also by Council Member Ulrich.
12	KATRIN KLINGENBERG: My name is Katrin
13	Klingenberg. Thank you for the opportunity to
14	testify today. I'm the Executive Director of the
15	Passive House Institute US, the leading Passive
16	building research institute in alliance a national
17	501C3 non-profittrained 400 professionals in New
18	York state since 2008 certified pre-certified 30
19	projects, over 30 projects with many more in
20	progress. And that includes the 101-unit project
21	currently underway in the Rockaways. We thank you
22	for the invitation to testify on the current draft
23	of the proposal… proposed legislation. Our comments
24	generally relate to topics in the legislation
25	namely the removal of any reference to Passive

1 COMMITTEE ON HOUSING AND BUILDINGS 60 2 building standards and principles and the removal of provisions specifying minimum requirements for 3 4 certifying organizations. Passive building 5 standards are design guidelines for low energy, zero energy buildings. They assure that 6 7 conservation efficiency of equipment of renewables 8 are employed in that order to achieve the most cost 9 effective and resource efficient low energy solutions possible. Such standards are generally 10 11 characterized by two types of energy use intensity 12 NDCs that have to be met first during the design 13 process before renewables are employed to zero out 14 of the remaining energy needs. Currently the market 15 uses either site or source EUIs to describe levels of efficiency in buildings neither by itself as 16 17 sufficient to guide and optimize the level of 18 conservation measures first. Passive building 19 standards use the more granular approach of two 20 different types of EUIs, first to guide the 21 designer to dial in the envelope and Passive design 2.2 until renewables become more cost effective to get 23 to zero energy. Then the source energy EUI that has to be met as well. Without this two-step process 24 below or zero energy building solution it's likely 25

1 COMMITTEE ON HOUSING AND BUILDINGS 61 to have wasted investment and resources in too much 2 3 insulation or have less cost effective savings to 4 conservation and Passive design on the table. We recognize that the legislation does not attempt to 5 set a specific Passive building standard. We 6 7 therefore suggest that the legislation could provide design guidelines for cost optimized energy 8 9 efficiency levels of the envelope in addition to the source energy use ... intensity by requiring 10 11 buildings to meet certain specific space conditioning EUIs for heating and cooling demands. 12 13 And we are very happy to help with that ... to 14 determine these ... specific standards for the city of 15 New York if that is desired. Thank you. CHRIS BENEDICT: This is an important 16 17 day. And I want to thank the city council for 18 bringing us to where we are because those of us ... 19 [cross-talk] 20 UNIDENTIFIED FEMALE: I'm sorry can you 21 just give your name for the record. CHRIS BENEDICT: Oh I'm sorry. Chris 2.2 23 Benedict, I'm an architect in New York. Those of us in the Passive House world thought that this would 24 be happening a few years from now so we are so 25

1 COMMITTEE ON HOUSING AND BUILDINGS 62 2 excited and thank you for bringing us here for this 3 conversation. I have some comments about the retro commissioning but I... I'll keep them fairly short. 4 The retro commissioning is low hanging fruit in a 5 building and doesn't address actually severe issues 6 7 with designs of mechanical systems throughout the 8 building. And so the job is way bigger than retro 9 commissioning. And I'd be happy to talk with you about that. But just as an example you have a steam 10 11 system that is retro commissioned and working. It's 12 still a steam system. It still has its problems. So 13 there's... it's a much more complex issue. But really what I want to talk about here is the Passive House 14 15 bill which sadly to a lot of us in the Passive 16 House community had Passive House removed from it. 17 I have been a... a practitioner and Passive House 18 pioneer here in the city of New York for a number 19 of years. And I have two really great things to 20 report. The first one is that we can deliver 21 Passive Houses for the same price as typical 2.2 construction. So the ... the problem that has been 23 stated about it being additional cost is one that can be solved by well-trained designers. The second 24 is in affordable housing what my clients have 25

1 COMMITTEE ON HOUSING AND BUILDINGS 2 discovered is that the money that they can save on 3 their energy bills can help them pay their debt 4 service which enables them to make more affordable 5 housing. And this is really good news because of that. So again we are sad that Passive House was 6 7 removed from this bill. We would love to see it put back in. But if there is a criteria set up in the 8 9 bill I think we have to be very careful about what that criteria is if it's not Passive House. My 10 11 suggestion would be to look to something that we've 12 been calling as a working title the Perfect Energy 13 Code. And the Perfect Energy Code would be a code that would talk ... that would look at the size of a 14 15 mechanical system in a building, the size of the 16 heating and the cooling and divide it by the square 17 footage of the building. And we can bring those 18 numbers to close or to the Passive House standard 19 as it would be played out in New York so that we 20 would get that level of efficiency into the 21 building and of course we would love to have it be 2.2 Passive House but this would be another way to 23 bring it in. So thank you again for bringing us here. And we look forward to working with you in 24 any way we possibly can. 25

1	COMMITTEE ON HOUSING AND BUILDINGS 64
2	DAVID WHITE: My name is David White. I
3	do the engineering work energy efficient homes in
4	New York City. Thank you Chair Williams. Thank you
5	Chair Richards for inviting these comments. My
6	comments are also on 107-A. And it is regarding
7	choosing a metric or describing the metric in a way
8	that ensures compliance. I… I agree with Chris
9	Benedict about the importance of setting a metric
10	in a way that ensures compliance. And by that I
11	mean with our current energy code there are two
12	problems. One it is so complex that it's very
13	common in my experience and I believe I speak for
14	all building professionals here that non-compliant
15	buildings get built. Two, even compliant buildings
16	have severe problems with energy performance from
17	thermal bridging, to enclosure leakage, to duct
18	leakage, to all manner of mechanical system design
19	and construction errors that cannot and certainly
20	are not codified in our code. The fact of the
21	matter is the difficulty of making an energy
22	efficient building from design form to fenestration
23	to detailing to being on site to catch construction
24	errors, and learning how to work with construction
25	professionals is too complex to enforce or even

1 COMMITTEE ON HOUSING AND BUILDINGS codify. What we need the code to do is set a 2 3 number ... set a requirement that is so easy to 4 enforce that nobody can get away from it and that 5 is so binding that the design team is then required to use their professional expertise to make that 6 7 building work. If the code does nothing other than set a limit on the size of heating and cooling 8 9 equipment the design team will then either have to make an energy efficient building or they'll make 10 11 an uncomfortable building and they will have to 12 deal with those consequences. To me this is the 13 best way for us to make great buildings because it 14 harnesses the talents of a design professionals. 15 The code makes sure that our buildings are energy 16 efficient and our design professionals figure out how. Thank you. 17 18 COUNCIL MEMBER RICHARDS: Thank you. 19 CHAIRPERSON WILLIAMS: Thank you very 20 much for your testimony. I don't think myself or

colleagues have any questions at this time. We

down. Thank you. And we have our last panel;

really appreciate you taking the time out to come

Paimaan Lodhi from REBNY ... Strohan from Enterprise

Rezwan Sharif from Compast [phonetic] Inc. Can you

21

2.2

23

24

25

1 COMMITTEE ON HOUSING AND BUILDINGS 2 please all raise your right hand? Do you affirm to 3 tell the truth, the whole truth, and nothing but 4 the truth in your testimony before this committee 5 and to respond honestly to Council Member questions? And you can begin in the order of your 6 7 preference. We were also joined by Council Member 8 Espinal.

9 ELIZABETH ZELDIN: Good morning. Happy Climate Week. My name is Elizabeth Zeldin. I'm the 10 11 Director of Public Policy for the New York Office 12 of Enterprise Community Partners. We are a large 13 non-profit affordable housing organization. We've 14 created or preserved more than 50 thousand safe, 15 quality, affordable homes in New York City over the last 30 years. So I really appreciate the council's 16 17 commitment to climate change action and also your 18 consideration of affordable housing in these bills 19 today and also going forward. But I still want to 20 proceed with my comments today because I want to 21 make clear what is already happening in the 2.2 affordable housing industry in relation to green. 23 We're actually doing a lot. New York City is really changing ... really leading the way in terms of the 24 whole country. So Enterprise Green Community's 25

1 COMMITTEE ON HOUSING AND BUILDINGS 2 criteria was created more than ten years ago 3 because we wanted to prove that it was possible to bring the benefits of green to low income families 4 5 and we've been doing so ever since that time. We work closely with HPD to implement their green 6 7 policy for affordable housing which incorporates the Enterprise green community's criteria. This is 8 9 the nationally recognized standard for green and healthy affordable housing. Right now all new 10 construction and substantial rehabilitation of 11 affordable housing projects receiving HPD funding 12 require projects to comply with a virgin of ... 13 14 version of the green community's criteria 15 specifically made for the New York City affordable 16 housing market called the HPD overlay. So again all 17 new construction and substantial rehabilitation 18 projects do that. We think it's important now and 19 going forward that the green community's criteria be the standard for affordable housing as opposed 20 to Lead. We estimated that the cost of compliance 21 for Lead versus Enterprise Green Community's 2.2 23 criteria is 15,000 dollars more just in compliance alone. So that's public subsidy dollars that take 24 away from other affordable housing goals such as 25

1	COMMITTEE ON HOUSING AND BUILDINGS 68
2	more units or deeper levels of affordability.
3	Additionally, the green community's criteria which
4	I have copies of today you can have if you'd like
5	are specifically made too for preservation whereas
6	Lead is for new construction this is appropriate
7	for preservation. I see that my time's up but I'll
8	take questions afterwards. Okay thanks.
9	PAIMAAN LODHI: Good morning Chairman
10	Williams and members of the Committee on Housing
11	and Buildings. My name is Paimaan Lodhi Vice
12	President of Urban Planning for the Real Estate
13	Board of New York. Thank you for the opportunity
14	today to comment on Intro 633. REBNY is deeply
15	committed to a more sustainable city. Our members
16	sit at the forefront of the sustainability movement
17	building and managing many of the most energy
18	efficient buildings in the world. And we thank the
19	council for their steadfast advocacy on this topic.
20	The city and the council have many worthy goals to
21	improve our building stock. In addition to
22	sustainability we're all working to improve
23	affordability, public safety, accessibility, and
24	resiliency. Therefore, it's important that any
25	proposal account for associated cost as it will

COMMITTEE ON HOUSING AND BUILDINGS 1 69 2 likely impacted ... impact other stated policy goals. 3 Although we support the intent of the proposal we 4 have a few concerns. The proposed five-year cycle 5 may necessitate that some buildings use continual efforts to ensure compliance. The current ten-year 6 7 cycle takes into account that each audit requires at least one full year of testing in addition to 8 9 consult and preparation time and that the cost associated with the auditing will likely require 10 11 incorporation into a multi-year budget. Increasing 12 the frequency of reporting is not necessarily going 13 to improve energy efficiency of buildings. However 14 even without clear energy efficiency benefits the 15 proposal will double the cost of buildings 16 somewhere in the neighborhood of 100,000 dollars 17 each decade. Buildings that operate on fixed 18 incomes and narrow margins including and especially 19 affordable housing do not have the ability to cover 20 these additional costs. The city should instead 21 prioritize improving the quality of current submissions before increasing the frequency of said 2.2 23 submissions. For instance, more explicit definitions of Local Law 87's appropriate and 24 satisfactory need to be incorporated into DOB 25

COMMITTEE ON HOUSING AND BUILDINGS 1 70 rules. Further the city's 80 by 50 technical 2 3 working group which features city representatives, 4 builders, environmentalists, and reporting 5 professionals was assembled to investigate the universe of possible energy efficiency solutions. 6 7 Everyone on the ... on the working group is in agreement that the current submission process is 8 9 inadequate and should be revamped. Through conversations with our membership and other 10 11 sustainability professionals it became clear that the city should prioritize quality over frequency. 12 We believe the city council could be very helpful 13 14 in advancing this effort. For instance, the council 15 could require and help fund the DOB to license the 16 professionals, conduct audits, and retro 17 commissioning and manage continuing education as 18 necessary. REBNY is actively involved in the city's 19 80 by 50 working group aimed to drastically cut 20 greenhouse gas emissions and we are anxious to talk... [cross-talk] 21 2.2 CHAIRPERSON WILLIAMS: Going to have to 23 ask you to wrap up. PAIMAAN LODHI: ...about numerous 24 25 sustainability measures. For the aforementioned

1 COMMITTEE ON HOUSING AND BUILDINGS 71 2 reasons we do not support the proposal to reduce 3 the reporting period from ten years to five years. We believe that effective legislation can be 4 5 crafted to achieve the council's goals while addressing the concerns listed above. Thank you. 6 7 REZWAN SHARIF: Good morning. Thank you council Members and the Chairman for this 8 9 opportunity to testify. My name is Rezwan Sharif. I am an entrepreneur as well as a Real Estate Broker. 10 11 I'm... I'm here to testify in favor of 701-A. What I 12 like to speak to briefly is about the consumer 13 sentiment ... private sector view on Passive Houses. 14 Mainly because as an investor and developer we're 15 building a six-unit Passive House certified 16 building in... in Harlem. And I'd like to second what 17 Chris Benedict earlier stated that you know we are 18 not seeing that ... that to build the Passive House 19 standard it's costing us more. In fact, we're able 20 to build this new building to the cost that we would have ... whether it was certified or not. 21 There's a lot of fat that we are trying to trim in 2.2 23 terms of knowledge base but that's what Chris mentioned earlier on that ... that with well design we 24 can achieve that. So I'm just here reporting that 25

1 COMMITTEE ON HOUSING AND BUILDINGS 2 from a private sector if you ask do they care from 3 the consumer side I want to address that as well. 4 From the private sector there is interest. And from 5 the consumer side to be honest if you ask if people care... as a Broker when I'm out there meeting owners 6 7 on the street and do they care about a Passive 8 House to be honest you can't care about something 9 you don't know much about. And I applaud NYPH's efforts in promoting that. But those who know about 10 11 it really do care. I can testify that a few of my clients who bought and own and live in Passive 12 13 Houses they... the ... in addition to the energy savings 14 the part that I want to emphasize is there's strong 15 human and health benefit of a Passive House. Many of my clients have reported their asthmas have come 16 17 down. They have a better air quality in their house 18 and their childs are happier. So one of the things 19 I want to leave us with is that we have this 20 opportunity to include these ... the requirements that 21 would not only enable our city to have a smaller 2.2 carbon footprint, have a more energy efficient 23 buildings but we're going to have a healthier city and healthier children. And I... I would want to 24 leave that with that ... with you because that is very 25

1 COMMITTEE ON HOUSING AND BUILDINGS 2 important part of an ancillary benefit we… we're 3 getting from having Passive House standards. So 4 that's my only two comments. I'm happy to answer 5 any questions about what you think the consumers 6 like or would like or are interested in. And… and 7 very excited about your initiative.

8 CHAIRPERSON WILLIAMS: Thank you so much 9 all for your testimony. Unfortunately, I have to go next door for another vote. Council Member Richards 10 11 is going to take over for the small remainder. But 12 I did want to say thank you Mr. Sharif. It sounded 13 like you were supportive of the bills. Ms. Zeldin 14 we're aware of some possible unintended affects 15 that we're going to work on as well just ... just so 16 you're aware of ... And Mr. Lodhi thank you for your 17 testimony. Definitely we'll try to take it into consideration. It is Council Member Richard's bill 18 19 so I'm sure he has some additional questions about 20 what the cost and balancing out the savings would 21 be. So thank you very much and I now ... I'll be right 2.2 back.

COUNCIL MEMBER RICHARDS: Who's
representing REBNY? Okay great, you're great. Can
you just go through how many building owners are

COMMITTEE ON HOUSING AND BUILDINGS 1 74 you aware of that filed for hardship because that 2 3 is an option in the current legislation ... PAIMAAN LODHI: Yeah I don't have that 4 number off hand but I can get back to you with 5 that. 6 7 COUNCIL MEMBER RICHARDS: Okay that 8 would be very helpful. Because when we say that 9 obviously you know it's... it's burdensome. And we ... we obviously want to be sensitive and ... and ... 10 11 and... and be ... and ... and work in tandem with people to 12 achieve obviously more energy efficient buildings. 13 But you know we also are not looking to make you 14 know peoples' lives hard. So can you just go 15 through... I... I noticed in your testimony you spoke 16 of the city should prioritize quality of reporting 17 over frequency. Can you go through some of the 18 things building owners are currently enduring? 19 PAIMAAN LODHI: I think it's ... it's more 20 just about making the ... the DOB process more user 21 friendly and less cumbersome. And include ... and ... and 2.2 improving the quality of that submission process. 23 You know we we serve on the city's 80 by 50 technical working group and everyone is in 24

consensus that that needs to be revamped. And one

1 COMMITTEE ON HOUSING AND BUILDINGS 75 way that that could be improved is if DOB was 2 3 either required or had the funds to license audit ... 4 auditing professionals to do so including 5 continuing education so that DOB could get better applications in, so more complete, so looking for 6 7 what they're actually determining. 8 COUNCIL MEMBER RICHARDS: Actually 9 licensing individuals doing the audit ... auditing you're saying so that the quality is better if I'm 10 11 hearing you correct. 12 PAIMAAN LODHI: Right so ... so getting the 13 auditing professionals then to help building owners 14 understand exactly what is being required and what 15 needs to be submitted to the DOB. 16 COUNCIL MEMBER RICHARDS: Mm-hmm. And 17 can you just go through when you said more user 18 friendly? Can you give us an example of ... 19 PAIMAAN LODHI: You know ... say this 20 nicely ... 21 COUNCIL MEMBER RICHARDS: So do you ... you have to submit these things online is that ... or ... or 2.2 23 in person? PAIMAAN LODHI: Yeah I think a website ... 24 25 COUNCIL MEMBER RICHARDS: Okay.

1	COMMITTEE ON HOUSING AND BUILDINGS 76
2	PAIMAAN LODHI:it was more user user
3	friendly would be
4	COUNCIL MEMBER RICHARDS: Okay.
5	PAIMAAN LODHI:would be appropriate
6	instead of a spreadsheet that's I guess clunky and
7	hard to… hard to manage.
8	COUNCIL MEMBER RICHARDS: Alrighty.
9	Great. I think that's my only question. I thank you
10	obviously for these recommendations
11	PAIMAAN LODHI: Thank you.
12	COUNCIL MEMBER RICHARDS: I think that
13	they definitely are helpful and and we should we
14	should certainly look at these things. Alrighty if
15	that's it I'll… Thank you for testifying. We'll
16	move on to the next panel. Oh this is it? Oh. I had
17	a easy job. Alrighty. Well thank you all for coming
18	out to this hearing and I and I thank our Chair
19	Council Member Williams for certainly holding this
20	on this occasion as the Pope is here and speaking
21	about climate change and we're in city hall
22	speaking about it. So thank you all for coming out.
23	[gavel]
24	
25	

CERTIFICATE

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 October 2, 2015