

## VOLUME B, PAGES 164-328

COMMONWEALTH OF MASSACHUSETTS  
ENERGY FACILITIES SITING BOARD

PUBLIC MEETING OF THE ENERGY FACILITIES SITING  
BOARD, held remotely via Zoom, on February 8, 2021,  
commencing at 1:07 p.m.

SITTING: Kathleen A. Theoharides, Chair

Matthew H. Nelson

Cecile M. Fraser

Patrick C. Woodcock

Gary Moran

Jonathan Cosco

Joseph Bonfiglio

Brian Casey

Andrew Greene, EFSB Director

-----Reporter: Alan H. Brock, RDR, CRR-----

Farmer Arsenault Brock LLC

Boston, Massachusetts

617-728-4404

<p style="text-align: right;">Page 165</p> <p>1 February 8, 2021 1:07 p.m.  2 P R O C E E D I N G S.  3 CHAIR THEOHARIDES: Good afternoon.  4 Welcome. Before we begin, I do want to provide some  5 instructions on how to best use Zoom for today's  6 meeting.  7 We have interpreters who will be  8 translating from English to Spanish and Spanish to  9 English. To select your desired language, click on  10 the Globe icon at the bottom of your screen and  11 select English or Spanish so that you can hear  12 everything said today with interpretation, as  13 needed. I will give you a moment so you can do that  14 now.  15 Please do not check the box that says  16 Mute Original Audio. We recommend this so that you  17 can still hear the voice of the actual speaker  18 faintly in the background, but mostly you will hear  19 the voice of the interpreter when speaking.  20 Dial-in participants on the phone number  21 included in the notice, which is 646.558.8656, will  22 hear the speaker's voice without interpretation.  23 Unfortunately, Zoom does not currently offer  24 interpretation for dial-in participants. However,</p>	<p style="text-align: right;">Page 167</p> <p>1 a version with Spanish audio interpretation.  2 So good afternoon again and welcome.  3 This is a remote meeting of the Energy Facilities  4 Siting Board regarding Eversource's proposed project  5 change for the Mystic-East Eagle-Chelsea reliability  6 project, Docket No. EFSB 14-04A/DPU 14-153A/14-154A.  7 My name is Katie Theoharides. I'm the  8 Secretary of Energy and Environmental Affairs for  9 the Commonwealth of Massachusetts and the Chair of  10 the Energy Facilities Siting Board. Joining me  11 today are members of the Siting Board, who I will  12 introduce in a moment.  13 The meeting is a continuation of the  14 prior Siting Board meeting held on December 16th,  15 2020, and scheduled for December 17th, 2020, and  16 rescheduled for February 1st and 2nd, 2021, but  17 postponed due to severe weather. This snow date was  18 described in the notice of this meeting.  19 The meeting today will continue with  20 remaining comments from parties and limited  21 participants in the proceeding, and then the public.  22 If time permits, the Board will deliberate and vote  23 on the tentative decision before the meeting ends at  24 8:00 p.m. If not, the Board will resume the meeting</p>
<p style="text-align: right;">Page 166</p> <p>1 comments made by dial-in participants on this number  2 will be interpreted into Spanish or English.  3 For dial-in participants who want to  4 listen and speak in Spanish during the meeting, we  5 have some good news: We have added an additional  6 phone line for this purpose, using a custom-built  7 solution, with two-way Spanish interpretation. The  8 telephone number for the Spanish interpretation  9 dialup line is 1.888.585.9008, and the room number  10 is 572 195 548.  11 So to access the Spanish interpretation  12 dial-in line, first you dial 1.888.585.9008; then  13 you enter room number 572 195 548; then you press  14 the pound key two times. Then you record your name;  15 you press the pound key again.  16 I will pause for these instructions to  17 be interpreted into Spanish, and we will put this  18 information on the screen as well.  19 MR. GREENE: Mauricio.  20 (Spanish interpretation.)  21 CHAIR THEOHARIDES: Thank you. I missed  22 part of my script there. So I will note in English  23 as well that this meeting is being recorded and will  24 be posted on the DPU/EFBSB YouTube channel, including</p>	<p style="text-align: right;">Page 168</p> <p>1 tomorrow morning at 9:00 a.m., as specified in the  2 notice.  3 Since this is a long meeting, we will  4 have a one-hour break at 5:00 p.m. and resume at  5 6:00 p.m. We will also have shorter breaks during  6 the meeting at approximately 2:30 p.m. and 3:45 p.m.  7 for about 10 minutes each. In addition, our  8 interpreters will take turns every 30 minutes, and  9 we will pause briefly to let them do so.  10 Now let me introduce the other members  11 of the Energy Facilities Siting Board participating  12 in the meeting today: We have Matthew Nelson, Chair  13 of the Department of Public Utilities; Cecile  14 Fraser, Commissioner of the Department of Public  15 Utilities; Patrick Woodcock, Commissioner of the  16 Department of Energy Resources; Gary Moran, Deputy  17 Commissioner and designee for the Commissioner of  18 the Department of Environmental Protection; Jonathan  19 Cosco, general counsel and designee for the  20 Secretary of the Executive Office of Housing and  21 Economic Development; Joseph Bonfiglio, a public  22 member; and Brian Casey, also a public member. We  23 have Andy Greene, director of the Siting Board, who  24 will be serving as the meeting host, along with</p>

<p style="text-align: right;">Page 169</p> <p>1 other staff of the Siting Board.</p> <p>2 I'd also like to thank Dr. Shalanda</p> <p>3 Baker for her service to the Board. As many of you</p> <p>4 know, Dr. Baker has joined the bide Administration</p> <p>5 as the deputy director of the Office of Energy</p> <p>6 Justice at the Department of Energy, and we wish her</p> <p>7 well in this new and critical role.</p> <p>8 Before we begin, I'd like to provide</p> <p>9 some important updates about how we will conduct</p> <p>10 this meeting. Due to the ongoing COVID-19 state of</p> <p>11 emergency, the Siting Board meeting today will be</p> <p>12 conducted remotely using Zoom. This meeting is</p> <p>13 being held pursuant to the Massachusetts open</p> <p>14 meeting law, the Siting Board's regulations,</p> <p>15 Governor Baker's March 10th, 2020 declaration of</p> <p>16 emergency, and the related order suspending certain</p> <p>17 provisions of the open meeting law.</p> <p>18 The purpose of this Board meeting is to</p> <p>19 listen to comments from participants in the Siting</p> <p>20 Board proceeding, from public officials, area</p> <p>21 residents, and other stakeholders joining us for</p> <p>22 this meeting on Zoom.</p> <p>23 After listening to your comments, the</p> <p>24 Board will begin its deliberations on the tentative</p>	<p style="text-align: right;">Page 171</p> <p>1 In conducting the meeting, I want to</p> <p>2 note some important procedures we will be following:</p> <p>3 All Board members must be audible to each other and</p> <p>4 to the audience. If a Board member becomes</p> <p>5 disconnected at any time, we will note that on the</p> <p>6 record. If there are significant technical</p> <p>7 difficulties, I will stop the meeting to allow the</p> <p>8 problem to be resolved.</p> <p>9 Before we get to the substance of our</p> <p>10 meeting, let me mention that a stenographer is</p> <p>11 participating remotely, who will transcribe</p> <p>12 everything said to make an official record of the</p> <p>13 meeting. We may experience some technical</p> <p>14 difficulties, such as potential background noise,</p> <p>15 video or audio issues, and other glitches, that may</p> <p>16 prompt the stenographer to request someone to repeat</p> <p>17 themselves.</p> <p>18 Board members and those on the panel</p> <p>19 should remember to mute their audio when listening</p> <p>20 and unmute when speaking. Everyone should speak</p> <p>21 slowly and clearly and allow the prior speaker to</p> <p>22 finish before you begin speaking. We greatly</p> <p>23 appreciate everyone's participation today.</p> <p>24 First, if you would like to present</p>
<p style="text-align: right;">Page 170</p> <p>1 decision, consider possible amendments to the</p> <p>2 tentative decision, and, finally, vote on the</p> <p>3 tentative decision. All deliberations of the Siting</p> <p>4 Board are taking place during these public meetings,</p> <p>5 according to the Commonwealth's open meeting law and</p> <p>6 the Siting Board's longstanding regulations.</p> <p>7 Using Zoom, the parties in this</p> <p>8 proceeding and the public will have a full</p> <p>9 opportunity to see and hear everything said during</p> <p>10 this remote Siting Board meeting, and to offer</p> <p>11 comments. For those of you accessing the meeting by</p> <p>12 phone, you will also hear everything and have an</p> <p>13 opportunity to comment as well.</p> <p>14 The instructions on how to participate</p> <p>15 were provided in the notice sent to parties and</p> <p>16 mailed to property owners and all U.S. mailbox</p> <p>17 addresses within one quarter mile of the proposed</p> <p>18 substation location. The notice was also posted on</p> <p>19 the EFSB website and the Eversource website and</p> <p>20 published by local news outlets. If you are having</p> <p>21 any technical difficulties, please call or text</p> <p>22 857.200.0065 for assistance. This number will be</p> <p>23 displayed periodically during the meeting and was</p> <p>24 also included in the notice.</p>	<p style="text-align: right;">Page 172</p> <p>1 comments to the Siting Board today, you have</p> <p>2 hopefully preregistered as described in the notice.</p> <p>3 For those of you who are dialing in on either of the</p> <p>4 two phone lines I mentioned before, you can "raise</p> <p>5 your hand" by dialing star 9. Please dial star 9</p> <p>6 when you hear your name announced as the next</p> <p>7 speaker. After we have heard from all the</p> <p>8 preregistered commenters, if you have not commented</p> <p>9 and would like to do so, dial star 9 on your phone,</p> <p>10 or if you are on Zoom, use the "raise hand" icon at</p> <p>11 the bottom of your screen.</p> <p>12 The entire proceeding today is being</p> <p>13 interpreted in Spanish and English in realtime.</p> <p>14 When speaking, each person should remember to help</p> <p>15 the interpreters by speaking in a loud, clear voice,</p> <p>16 at a moderate pace, as best as you can. If you are</p> <p>17 speaking very fast or not loud enough, it can be</p> <p>18 difficult for the interpreters to do their job, and</p> <p>19 difficult for the stenographer as well, who is here</p> <p>20 to make sure your words are accurately identified in</p> <p>21 the record.</p> <p>22 We are providing English-to-Spanish and</p> <p>23 Spanish-to-English interpretation for today's</p> <p>24 hearing, consistent with the Commonwealth's language</p>

<p style="text-align: right;">Page 173</p> <p>1 access policy. Everyone on Zoom should make sure to  2 select their desired language, English or Spanish,  3 by pressing the Globe icon at the bottom of your  4 screen and then choosing English or Spanish. If you  5 do not select a language, you will hear the current  6 speaker in whatever language is being spoken.  7 Again, for dial-in participants who want  8 to listen and speak in Spanish during the meeting,  9 we have just added an additional phone line for this  10 purpose, with two-way Spanish interpretation.  11 Please write this information down. The telephone  12 number for the Spanish interpretation dial-in line  13 is 1.888.585.9008, and the room number is 572 195  14 548.  15 So again, to repeat the instructions, to  16 access the Spanish interpretation dial-in line, step  17 one, dial 1.888.585.9008; two, enter room number 572  18 195 548; three, press the pound key two times; four,  19 record your name; and five, press the pound key  20 again. Mauricio.  21 (Spanish interpretation.)  22 CHAIR THEOHARIDES: Thank you. We'll  23 repeat these instructions after each break for any  24 new arrivals to the meeting.</p>	<p style="text-align: right;">Page 175</p> <p>1 Today the Siting Board will continue  2 listening to remaining comments by parties and  3 limited participants in the proceeding and then  4 listen to comments from the public in the order that  5 people signed up.  6 We will take comment in the following  7 order: first, from any Federal, State, or local  8 officials that did not have the opportunity to  9 comment at the last meeting; then from the  10 intervenors and limited participants that have not  11 yet spoken. Finally, we'll turn to comments from  12 members of the public.  13 I will call on public commenters in the  14 order that they have preregistered. Time  15 permitting, I will invite additional public  16 commenters who use the "raise hand" feature on Zoom  17 or star 9 on your phone. There are many commenters  18 that have signed up, and this morning we provided a  19 list to the commenters with the order in which they  20 signed up. Also, we will periodically display the  21 list of upcoming commenters, so you can check in on  22 that.  23 Okay, we are now ready to begin the  24 substantive part of this meeting.</p>
<p style="text-align: right;">Page 174</p> <p>1 A video recording of the meeting today  2 in both English and Spanish is being made by the  3 Siting Board and will be posted on the Department of  4 Public Utilities' YouTube channel. The YouTube  5 website is in the notice. In addition, a transcript  6 of this meeting in English and Spanish will be made  7 available as soon as possible and posted in the  8 Siting Board electronic file room, which you can  9 find a link to the transcript on the Siting Board  10 Web page for this meeting.  11 We've scheduled ample time in this Board  12 meeting for public comment. Public commenters are  13 asked to keep comments to approximately three  14 minutes per person so that we can hear from everyone  15 who wishes to speak. We will gently remind speakers  16 when it's time to wrap up about 30 seconds before  17 the three-minute mark and then at the three-minute  18 mark. Mr. Hazle of the Siting Board staff will hold  19 up a sign to indicate when you are approaching that  20 three-minute mark. Mr. Hazle, can you hold up that  21 sign? Thank you. Each public commenter will be  22 provided only one opportunity to comment so that we  23 may hear from everyone. Public officials who  24 comment will have additional time as needed.</p>	<p style="text-align: right;">Page 176</p> <p>1 There is one item on the agenda today,  2 which is the consideration of the tentative decision  3 in the matter of NSTAR Electric Company, doing  4 business as Eversource Energy, EFSB 14-04A/DPU  5 14-153A/14-154A, in which Eversource seeks approval  6 from the Siting Board for a proposed change to the  7 Eversource transmission project that the Siting  8 Board approved on December 1st, 2017. The  9 previously approved project included a new  10 substation, to be located on a City-owned parcel of  11 land in East Boston.  12 In this proceeding Eversource seeks  13 approval to move the substation approximately 200  14 feet to the west of the originally approved  15 location, within the same City-owned parcel of land  16 in the East Eagle neighborhood.  17 After all public comments are heard  18 today, the Board will begin deliberations and  19 finally vote on the tentative decision.  20 So let me begin by calling on any  21 officials present that have signed up to speak  22 regarding the tentative decision and did not do so  23 at the last meeting.  24 MS. BONGIOVANNI: Excuse me, can I ask?</p>

<p style="text-align: right;">Page 177</p> <p>1 We have two panelists who are in the wait room. I  2 have to leave at some point to pick up my children  3 and to take them to another class. So my colleague,  4 John Walkey, needs to be brought into the panelist  5 room so he can represent GreenRoots without a legal  6 attorney, legal staff. And also Bryndis Woods is in  7 the waiting room.  8 CHAIR THEOHARIDES: Andy, can we bring  9 those folks in?  10 MR. GREENE: Yes, we can. I just want  11 to mention that I just moved State Rep Adrian Madaro  12 in. He did speak, I believe, at our last meeting.  13 He has just requested the opportunity to address the  14 Board today. He should be in the panel now. Yes,  15 he is.  16 CHAIR THEOHARIDES: Great, I see you,  17 Mr. Representative.  18 MR. GREENE: Let's see if we can get  19 Ms. Woods and Mr. Walkey back on the panel.  20 CHAIR THEOHARIDES: I see Mr. Walkey.  21 MR. GREENE: All present.  22 CHAIR THEOHARIDES: I do not see any  23 Federal officials, but I did want to pause a moment  24 to make sure we don't have any before I move on to</p>	<p style="text-align: right;">Page 179</p> <p>1 The concerns that I'll be sharing with  2 you today are ones I not only hear from my  3 neighbors, but are also ones that we talk about at  4 home. My wife and I are expecting our first child  5 in May, and we will be raising our family here on  6 Eagle Hill. Our kids will play at the playground  7 right across from this proposed substation, as I did  8 when I was growing up here.  9 Should this project proceed, our  10 children will grow up with the substation and all  11 the effects it brings. East Boston is well known as  12 an environmental justice community that has  13 historically dealt with one of the most  14 disproportionate shares of environmental burdens in  15 the Commonwealth. Our residents suffer from a  16 variety of environmental burdens, including a major  17 international airport, a highway running through the  18 neighborhood, oil tanks along the shoreline adjacent  19 to this project site, and more.  20 This misguided substation proposal  21 should not move forward. It will become yet another  22 environmental burden on a community which has  23 shouldered more than its fair share.  24 Throughout the public process my</p>
<p style="text-align: right;">Page 178</p> <p>1 the Representative.  2 Mr. Greene, we don't know of any  3 attending, do we?  4 MR. GREENE: We do not. If there are  5 any Federal officials who we have not been able to  6 identify, use the "raise hand" feature on Zoom so we  7 can spot you. But I don't see any.  8 CHAIR THEOHARIDES: Okay. With that, I  9 would turn it then to Representative Madaro.  10 REPRESENTATIVE MADARO: Can you all hear  11 me now?  12 CHAIR THEOHARIDES: We can.  13 REPRESENTATIVE MADARO: Good afternoon,  14 Madame Secretary, members of the Board. Thank you  15 for giving me the opportunity to speak in opposition  16 to this proposal. I'd also just like to say thank  17 you to Mr. Greene for helping us out with the  18 technological aspects of this to ensure that I was  19 able to get on and comment today.  20 I speak today not only as the State  21 Representative from East Boston, but also as a  22 lifelong resident of East Eagle, who grew up and  23 continues to reside just a few blocks away from the  24 proposed substation.</p>	<p style="text-align: right;">Page 180</p> <p>1 colleagues and I, in addition to countless residents  2 of East Boston, have raised several important and  3 well-founded concerns regarding the substation  4 proposal. Chief among them is the proposed location  5 and the safety concerns it presents. Sited on the  6 waterfront of Chelsea Creek, the substation would be  7 located in a flood zone, as recognized by the City  8 of Boston. With well-documented flooding of the  9 area during several major storm events in the past  10 few years and increased flood risk of the East  11 Boston shoreline due to climate change, a constant  12 factor considered by State and City agencies in  13 planning processes across the neighborhood, concerns  14 about locating a major electrical substation in this  15 area are not unwarranted.  16 Moreover, the substation is located in  17 close proximity to a large field of oil tanks along  18 the creek, another potential safety risk.  19 Such concerns are further compounded by  20 the fact that the substation lies on the edge of the  21 East Eagle neighborhood, a densely populated  22 working-class area, and directly abuts two popular  23 city parks, the American Legion playground and the  24 Condor Street Urban Wild, which is frequented by</p>

<p style="text-align: right;">Page 181</p> <p>1 countless residents.</p> <p>2       Additionally, many have raised doubts</p> <p>3 about the necessity of this project in supporting</p> <p>4 the supply of electricity to the East Boston</p> <p>5 neighborhood and whether such improvements cannot be</p> <p>6 satisfied through alternative means or siting.</p> <p>7       I join the East Boston community in</p> <p>8 strong opposition to the project. I do not believe</p> <p>9 that neighborhood concerns regarding the proposed</p> <p>10 substation have been adequately addressed nor</p> <p>11 resident questions thoroughly answered.</p> <p>12       Additionally, the community feels like</p> <p>13 our voices have been deliberately silenced</p> <p>14 throughout this process. Through this process there</p> <p>15 have been language-access issues that have prevented</p> <p>16 all members of our majority-minority predominantly</p> <p>17 immigrant town from being truly engaged.</p> <p>18       Moreover, even this hearing, which is</p> <p>19 being held in the middle of a workday, makes it</p> <p>20 difficult for my constituents to comment and be</p> <p>21 heard. And even the format of this Zoom Webinar</p> <p>22 seems designed to stifle public input. We cannot</p> <p>23 see each other or communicate with each other in the</p> <p>24 chat. This format takes away the human element of a</p>	<p style="text-align: right;">Page 183</p> <p>1 use in the area, improving the American Legion</p> <p>2 playground, and creating the Condor Street Urban</p> <p>3 Wild, to provide for coastal resiliency and mitigate</p> <p>4 against the historical burdens our community has</p> <p>5 dealt with.</p> <p>6       Approval of this substation will roll</p> <p>7 back the clock on these longtime community efforts</p> <p>8 towards reducing and mitigating environmental</p> <p>9 burdens on the neighborhood. Instead of continuing</p> <p>10 efforts to make our community a better, healthier</p> <p>11 place for residents in future generations, this</p> <p>12 project will keep us stuck where we've been as an</p> <p>13 environmental justice community.</p> <p>14       Introducing this substation to the</p> <p>15 neighborhood is not only inconsistent with</p> <p>16 environmental justice principles, but it will also</p> <p>17 continue our community's unfortunate legacy of</p> <p>18 shouldering a disproportionate impact of</p> <p>19 environmental burdens.</p> <p>20       I join my constituents in opposition to</p> <p>21 this project, and we hope the EFSB does the same and</p> <p>22 supports and protects the East Boston community.</p> <p>23 Thank you for your time.</p> <p>24       CHAIR THEOHARIDES: Thank you,</p>
<p style="text-align: right;">Page 182</p> <p>1 public meeting, which would be very different if we</p> <p>2 were meeting in person.</p> <p>3       The proposed substation will only add to</p> <p>4 the environmental burdens that my constituents,</p> <p>5 again largely immigrant and working-class</p> <p>6 populations, are expected to disproportionately</p> <p>7 shoulder. Due to those burdens, we already</p> <p>8 experience the highest rates of childhood asthma and</p> <p>9 adult COPD in the City of Boston. And more</p> <p>10 recently, throughout much of the pandemic, we've had</p> <p>11 the highest rates of COVID in the city.</p> <p>12       Any proposal which would increase this</p> <p>13 environmental burden requires the highest level of</p> <p>14 scrutiny, to ensure that the voice of the community</p> <p>15 is fully heard and resident concerns addressed. To</p> <p>16 date I do not feel like this has been done.</p> <p>17       When I grew up, the area surrounding the</p> <p>18 American Legion playground was an environmental</p> <p>19 justice disaster -- oil tanks, industrial</p> <p>20 businesses, pollution, trucks, and more. In the</p> <p>21 years since, the community has made strong efforts</p> <p>22 to mitigate these effects and make the neighborhood</p> <p>23 better and safer for ourselves and our children.</p> <p>24 We've done this by diversifying the industrial land</p>	<p style="text-align: right;">Page 184</p> <p>1 Representative. Are there any additional State</p> <p>2 officials who wish to speak at this point?</p> <p>3       Okay. Seeing none, next we will hear</p> <p>4 from local officials. Are there any local officials</p> <p>5 present today?</p> <p>6       MR. WALKEY: Boston City Councilor</p> <p>7 Michelle Wu had sent in a comment letter, which I</p> <p>8 have here. I was wondering if it would be</p> <p>9 appropriate to read it, if we can read that into the</p> <p>10 record here. Because I know some people have sent</p> <p>11 their testimony to me if they were not able to get</p> <p>12 into the hearing today because of work conflicts.</p> <p>13       CHAIR THEOHARIDES: Ms. Evans or</p> <p>14 Mr. Greene, can you advise on this?</p> <p>15       MS. EVANS: I just want to note that I</p> <p>16 did receive that letter a short time before this</p> <p>17 meeting and did send it out to the service list. So</p> <p>18 the letter is already part of the record here.</p> <p>19       MR. WALKEY: Okay, so we wouldn't be</p> <p>20 able to read that for the benefit of the folks who</p> <p>21 are watching, or we just assume that that they'll</p> <p>22 read that in their email?</p> <p>23       MR. GREENE: If I could interject: We</p> <p>24 do have it in the record, it hasn't been posted for</p>

<p style="text-align: right;">Page 185</p> <p>1 more than about ten minutes, so why don't you read 2 it. 3 CHAIR THEOHARIDES: Why don't you read 4 it. 5 MR. WALKEY: Dear Secretary Theoharides, 6 Presiding Officer Evans, and Board members, thank 7 you for the opportunity to comment on the tentative 8 decision published by the Energy Facilities Siting 9 Board regarding combined docket EFSB 14-04A/DPU 10 14-153A/14-154A. 11 I have expressed my opposition to this 12 project to various State and City agencies before, 13 most recently at the previous Board hearing in 14 December 2020, and I continue to share the concerns 15 of advocates who have fought against this Eversource 16 proposal for nearly ten years. In 2017 the State 17 ignored years of community opposition in issuing 18 initial approvals for Eversource to build an 19 electrical substation along Chelsea Creek in East 20 Boston in a dense residential area prone to 21 flooding. The City of Boston's own analysis shows 22 the future flood risk in the precise location of the 23 project as the impacts of climate change accelerate. 24 A severe storm could put the electrical substation</p>	<p style="text-align: right;">Page 187</p> <p>1 electric demand in the region. 2 The projects that Eversource initially 3 listed as justification for this project have 4 already been built and are functioning without 5 electricity generated from this new substation. And 6 while Eversource claims to have performed extensive 7 and multilingual outreach in the community, the 8 community has not received transparent data. 9 Earlier this year GreenRoots and the Conservation 10 Law Foundation filed a Federal lawsuit against the 11 U.S. Environmental Protection Agency after it failed 12 to investigate discrimination concerns following the 13 Title VI civil rights complaint filed against this 14 body, the Department of Public Utilities and the 15 Executive Office of Energy and Environmental Affairs 16 for failing to comply with laws ensuring equal 17 access for residents who speak a language other than 18 English, limiting their ability to meaningfully 19 participate in the public decisionmaking process. 20 After nearly a decade of fighting this 21 proposed substation, East Boston arrives at a 22 crossroads with a new Federal administration 23 committed to securing environmental justice for all 24 and a deadly pandemic that has exposed the deep</p>
<p style="text-align: right;">Page 186</p> <p>1 under more than a foot of water -- 2 MR. GREENE: Mr. Walkey, the 3 interpreters are asking if you could just slow it 4 down a bit. 5 MR. WALKEY: Sure. Thank you. A severe 6 storm could put the electrical substation under more 7 than a foot of water and risk an explosion, in a 8 neighborhood that is already disproportionately 9 bearing environmental injustices, including storage 10 tanks holding all of New England's jet fuel, the 11 noise and air pollution of a major airport, and less 12 green space and fewer trees than any other Boston 13 neighborhood. Residents, activists, and scientists 14 continue to point out the safety hazards of this 15 proposed substation siting. 16 Even beyond ignoring these risks, the 17 process of pushing this project through despite 18 widespread community opposition only exacerbates the 19 mistrust between East Boston residents and their 20 government. Eversource has never provided 21 transparent presentation to the community of the 22 actual need for this project in light of ISO New 23 England data and expert analysis from the Union of 24 Concerned Scientists, which shows a decline in</p>	<p style="text-align: right;">Page 188</p> <p>1 public health vulnerabilities of a community with 2 some of the City's highest rates of asthma and 3 overcrowded housing. 4 Today we have the chance -- we have a 5 chance to make a clean break with our history of 6 concentrating environmental risks in working-class 7 communities of color and instead show urgent 8 leadership for environmental justice by stopping 9 Eversource from steamrolling over this neighborhood. 10 Once again, I urge the EFSB and the DPU 11 to reconsider the tentative decision on this project 12 and initiate proceedings to specifically review how 13 to best obtain and procedurally implement 14 environmental justice for all of Boston's 15 communities. Sincerely, Michelle Wu, Boston City 16 Councilor at large. Thank you very much. 17 CHAIR THEOHARIDES: Thank you, 18 Mr. Walkey. Are there other local officials present 19 today? 20 Okay. Before we resume comments by the 21 parties, I would like to note that the Siting Board 22 received timely comments written in March 2020 on 23 the tentative decision from Eversource, GreenRoots, 24 Conservation Law Foundation, Julia Ivy, and Boston</p>

<p style="text-align: right;">Page 189</p> <p>1 City Councilor Lydia Edwards.  2 Since publication of notice for this  3 meeting, the Board received written comments from  4 additional groups and individuals, which have all  5 been posted online and are accessible to the public  6 in the Siting Board's electronic file room.  7 These include comments from Eversource  8 Energy, the applicant; GreenRoots, including  9 witnesses Bryndis Woods and Marcos Luna;  10 Conservation Law Foundation; elected officials,  11 including one set of comments from U.S. Senators  12 Markey and Warren, U.S. Representatives Clarke,  13 Kennedy, Pressley; State Senators Boncore,  14 DiDomenico and Eldridge; State Representatives  15 Madaro, DuBois, Miranda, and Ryan; and Boston City  16 Councilors Edwards, Essaibi-George, Meija, and Wu;  17 and another set of comments from Boston City  18 Councilors Lydia Edwards and Michelle Wu.  19 Commenters also include Joe Aponte, Eric  20 Burkman, and public commenters Ann Finkel, Dan  21 Bailey, Maria Caroline Ticona, Deborah Merson,  22 Stefanie Tam, John Antonellis, Leonard Olsen, Ben  23 and Jenna Brown.  24 After the deadline we received the</p>	<p style="text-align: right;">Page 191</p> <p>1 CHAIR THEOHARIDES: Yes, let's start  2 with you, Dr. Woods.  3 DR. WOODS: Good afternoon, Madam  4 Secretary, Presiding Officer Evans, Board members,  5 and members of the public. My name is Bryndis  6 Woods, and I am a senior researcher at the Applied  7 Economics Clinic. We're based in Arlington,  8 Massachusetts, and we're a nonprofit consulting  9 group that provides expert analysis on issues  10 related to the environment, energy, and equity.  11 I first became involved with this  12 project in June 2019, when I submitted testimony  13 before the EFSB that concluded, quote, "Eversource  14 has not presented convincing evidence of the need  15 for the proposed East Eagle Street substation."  16 In December 2020 I provided written  17 comments that recommended that EFSB vote to reject  18 the tentative decision issued by the Siting Board,  19 given that Eversource has still not presented  20 convincing evidence of the need for the proposed  21 substation. I am speaking here today to again  22 recommend that the Siting Board reject Eversource's  23 proposal.  24 During the first portion of this</p>
<p style="text-align: right;">Page 190</p> <p>1 following written comments from public commenters:  2 Corine Jager, Lena Greenberg, Jaqueline Royce, and  3 John MacDougall. We received some additional  4 comments over the last month.  5 There were three intervenors and 11  6 limited participants in the proceeding. I will now  7 ask intervenors if they would like to present  8 comments to the Board.  9 GreenRoots is the party -- is a party to  10 the proceeding and is represented by Joshua Daniels,  11 who commented at our prior meeting, as did Mr.  12 Walkey and Ms. Bongiovanni. However, Dr. Woods and  13 Professor Luna did not have an opportunity to  14 comment in the last meeting.  15 I would ask counsel for GreenRoots if  16 Dr. Woods -- well, we know Dr. Woods is present --  17 and would like to comment on behalf of GreenRoots,  18 and also Professor Luna, who submitted comments.  19 MR. DANIELS: Thank you, Madam  20 Secretary. My understanding is that both of them  21 would like to do so at this time.  22 CHAIR THEOHARIDES: Okay, terrific. Go  23 ahead.  24 DR. WOODS: Shall I begin?</p>	<p style="text-align: right;">Page 192</p> <p>1 meeting, back in December, I heard a lot of  2 discussion about whether or not this project is  3 needed. As, I believe, the only person who  4 submitted testimony in the current proceeding  5 regarding the issue of project need, I listened very  6 carefully. And though I heard a lot of information,  7 some of which had been made available to  8 stakeholders before the meeting and some of which  9 had not, the questions I have about Eversource's  10 justification of the project's need ultimately  11 remain unchanged.  12 In 2017, using 2015 load forecast data  13 from the ISO New England CELT report, Eversource  14 claimed that electric load in the Chelsea-East  15 Boston load pocket would increase at a rate of 1.0  16 percent per year. Today, in January 2021,  17 Eversource is claiming that they have updated their  18 load forecast data, recalibrated their analysis, and  19 that electric load in the Chelsea-East Boston load  20 pocket will increase at a rate of 0.9 percent per  21 year. That rate of load increase is essentially  22 unchanged, 1.0 percent to 0.9 percent, despite  23 updating the load forecast data from the 2015 CELT  24 report to the 2020 CELT report.</p>



<p style="text-align: right;">Page 193</p> <p>1 Eversource claims that loads in the  2 Chelsea-East Boston load pocket will grow at an  3 annual rate of 0.9 percent per year even though  4 local loads have been growing at a rate of only 0.4  5 percent per year over the last five years, from 2015  6 to 2019, per Eversource's own data.  7 Eversource claims that loads in the  8 Chelsea-East Boston load pocket will grow at an  9 annual rate of 0.9 percent per year even though load  10 growth is forecasted to be flat to negative for the  11 rest of the state and the rest of the New England  12 region, 0.03 percent in the rest of the state and  13 negative 0.05 percent in the New England region,  14 respectively.  15 Eversource claims that the Chelsea-East  16 Boston load pocket is a unique outlier. The  17 evidence for this claim, as I understand, is  18 Eversource's own data and analysis, which no third  19 party, including myself, has been permitted to  20 review.  21 The issue of whether it is reasonable to  22 assume that electric loads in the Chelsea-East  23 Boston load pocket will increase at a 0.9-percent-  24 per-year rate is crucial. If, instead, local loads</p>	<p style="text-align: right;">Page 195</p> <p>1 community's stated needs and wishes, one would think  2 that time would be now.  3 In addition, the COVID-19 pandemic has  4 changed energy-use patterns significantly.  5 Commercial and industrial energy use is down,  6 residential energy use is up, and it is unclear how  7 these trends will continue to shift in the future.  8 During the first portion of this meeting, back in  9 December, I heard that in order to reopen the issue  10 of project need, intervenors in this docket must  11 meet a, quote, "very high burden," end quote. But  12 intervenors cannot meet that burden without access  13 to key information.  14 I ask the Board to give GreenRoots and  15 other intervenors the opportunity to make their case  16 by requiring Eversource to make available all  17 information underlying the company's claim that the  18 Chelsea-East Boston load pocket is a unique pocket  19 of load growth in a sea of flat and declining loads.  20 The specific information that would be needed for a  21 third-party review include historical load data for  22 the Chelsea-East Boston load pocket that goes  23 further back than the data already provided by  24 Eversource, Eversource's load forecasting analysis</p>
<p style="text-align: right;">Page 194</p> <p>1 grow at the lower pace expected for the state as a  2 whole or the region as a whole, then the  3 Chelsea-East Boston area will not pose a concern for  4 electric liability before 2030 and the substation  5 would not be needed, according to Eversource's  6 definition of need.  7 During the first portion of this  8 meeting, back in December, I heard that  9 electrification will increase electric loads in the  10 future. While that is undoubtedly true, it is a  11 moot point with regard to the proposed substation.  12 Eversource's expectations about increased electric  13 load from electrification would not be different for  14 the Chelsea-East Boston load pocket than it would be  15 for the rest of the state. Electrification alone  16 cannot explain the discrepancy in the anticipated  17 load growth in the Chelsea-East Boston load pocket,  18 the rest of the state, and the region.  19 The question of the need for the  20 proposed substation has only become more crucial in  21 light of the devastation that the COVID-19 pandemic  22 has wrought on these communities, the hardest hit in  23 the Commonwealth. If there were ever a time to be  24 particularly sensitive and receptive to the</p>	<p style="text-align: right;">Page 196</p> <p>1 and outputs used to develop the Chelsea-East Boston  2 load forecast, including any and all adjustments to  3 CELT 2020 load forecast data; expectations around  4 load increases from electrification; all new  5 customer additions and load increases that would  6 result from those additions; and any other  7 supporting materials.  8 This concludes my comments. Thank you  9 very much.  10 CHAIR THEOHARIDES: Thank you. Dr.  11 Luna?  12 PROFESSOR LUNA: Thank you. Good  13 afternoon. My name is Marcos Luna, and I am a  14 professor of geography and sustainability and the  15 coordinator of the graduate geo-information sciences  16 program at Salem State University. My area of  17 expertise includes analyzing the environmental risk  18 in vulnerable communities. I'm also a resident of  19 East Boston and specifically the East Eagle  20 neighborhood, where the proposed substation might  21 be.  22 The proposed site for Eversource's  23 substation on the shore of Chelsea Creek is not  24 currently in a designated flood risk zone, but it</p>

<p style="text-align: right;">Page 197</p> <p>1 will become so within the project's lifetime. No  2 one disputes that the site will become increasingly  3 subject to flood risk due to sea-level rise and also  4 changing patterns in extreme weather over the course  5 of coming decades, if not sooner.  6 All the available science shows that  7 this site will experience significant flooding. The  8 only question is how soon this will happen.  9 Eversource and the EFSB staff are  10 misunderstanding or underestimating flood risk.  11 They are using optimistic middle-range scenarios  12 with an inappropriately short time horizon, and they  13 are ignoring plausible high-stakes scenarios, and  14 they are using an inconsistent standard of risk  15 assessment.  16 One of the key reasons for justifying  17 the substation is to avoid an unlikely scenario in  18 which one or two other substations go down  19 simultaneously, a low-probability event, with  20 admittedly high stakes. The same standard of risk  21 avoidance should be used for flood risk.  22 I've submitted written comments in  23 response to the tentative decision that describes in  24 detail my arguments and provides supporting</p>	<p style="text-align: right;">Page 199</p> <p>1 universities throughout the Commonwealth, technical  2 experts from State and Federal agencies, and flood  3 modeling from the Massachusetts Department of  4 Transportation for a Boston Harbor flood-risk model.  5 The BRAG report offers a range of projections for  6 sea-level rise for Boston through 2100, with varying  7 levels of probability.  8 BRAG made no recommendations about what  9 time horizon or what level of probability to use.  10 Eversource chose to look no further than 2070 and to  11 only consider the middle-range probabilities, not  12 upper-range probabilities or worst-case scenarios.  13 The 2070 cutoff is unrealistic, since we  14 know from Eversource's own experience that  15 substations can be very long-lived, well beyond the  16 40-year lifespan that's been discussed. In fact,  17 Eversource said in their post-hearing reply brief,  18 quote, "The substation is not likely to cease to  19 operate as such by 2070," unquote. This is  20 consistent with the concessions by their witness,  21 now the director of capital projects and engineering  22 at Eversource, made on cross-examination.  23 Eversource should be considering  24 lower-probability high-stakes scenarios for this</p>
<p style="text-align: right;">Page 198</p> <p>1 analyses, references, and maps. I'm going to offer  2 a summary of the basic points and add some new  3 information from more recent research that's come  4 out.  5 The flood analysis that Eversource did  6 was based on two sources of information: the  7 Federal Emergency Management Agency, or FEMA, flood  8 risk maps; and the Climate Ready Boston reports  9 released in 2016. The FEMA flood risk maps are  10 based on historic flooding and do not incorporate  11 projected flood risk. It's widely recognized,  12 including by FEMA, that these flood maps do not  13 convey the real risks of climate change. Sorry,  14 I'll slow down.  15 Unfortunately, there is no other  16 official flood risk standard that does. Most  17 flood-based policies and recommendations today,  18 including the vague guidance by ISO New England and  19 the American Society of Civil Engineers, are still  20 tied to FEMA flood maps.  21 In 2016 Climate Ready Boston released  22 its report of locally modeled climate change risks  23 based on work by the Boston Research Advisory Group,  24 or BRAG, a collaboration of researchers from</p>	<p style="text-align: right;">Page 200</p> <p>1 critical infrastructure. In fact, this is precisely  2 what leading scientists on sea-level rise  3 projections have been advising: to look beyond the  4 middle-range probabilities and take seriously  5 high-end scenarios with potentially catastrophic  6 effects. Low-probability events do happen.  7 When it comes to risk and essential  8 infrastructure, the question should not be what is  9 likely to happen but rather what can plausibly  10 happen, and what does it mean if the worst-case  11 scenario unfolds, who will be harmed, what will it  12 cost, and who will have to bear the consequences.  13 No one is projecting that things are  14 going to get better. Since the early 1980s there  15 have been about 75 studies generating projections of  16 sea-level rise globally. This includes the  17 assessment reports by the IPCC, which started in  18 1990. In fact, since the IPCC's fourth assessment  19 report was released in 2007, projections of the  20 upper range of sea-level rise have widened  21 dramatically. In fact, since their last report, in  22 2014, there have been 28 studies and more than 90  23 projections of sea-level rise, with a median  24 projected rise that is 50 percent higher than the</p>

<p style="text-align: right;">Page 201</p> <p>1 IPCC's projections. This is in large part because  2 of greater understanding of the contribution of  3 melting ice sheets and observations that show that  4 the climate system is changing much more quickly  5 than we previously thought possible.  6 Equally important, we are continuing to  7 add carbon dioxide to the atmosphere at an  8 accelerating rate. Last year carbon dioxide levels  9 in the atmosphere reached the highest level they've  10 been in human history and probably the highest  11 they've been in the last 3 million years. The last  12 time there was this much carbon dioxide in the  13 atmosphere, the global average surface temperature  14 was 3 to 5 degrees Fahrenheit warmer than they are  15 today and sea levels were 50 to 80 feet higher.  16 It's instructive to look at how policies  17 lag reality. On Page 55 of the tentative decision  18 there's a table showing a range of critical  19 elevations with respect to flood risk from a variety  20 of Federal, State, and local agencies. It's  21 organized to show Eversource at the top, with the  22 highest proposed design flood elevation. What's  23 interesting to note is that it's also organized in  24 reverse chronological order. The lower elevation</p>	<p style="text-align: right;">Page 203</p> <p>1 consider worst-case scenarios which are plausible.  2 If higher-end scenarios of sea-level  3 rise from the BRAG report are considered, which  4 seems prudent given the critical nature of this kind  5 of infrastructure, then we could be facing up to 10  6 feet of sea-level rise by the end of the century, if  7 not sooner.  8 By contrast, Eversource is only planning  9 for a maximum of about 4 feet sea-level rise. The  10 entire site could be submerged by the end of the  11 century or sooner, leaving behind both the costs and  12 risks of stranded infrastructure on East Boston  13 residents and ratepayers.  14 The EFSB should reject Eversource's  15 proposed site for a substation. Thank you.  16 CHAIR THEOHARIDES: Thank you. Before  17 we turn to questions, are there any other  18 intervenors present who have not yet spoken and wish  19 to do so?  20 MR. DANIELS: I believe, Madam  21 Secretary, that GreenRoots is the only party in this  22 proceeding that has intervenor status, and I believe  23 that's all from GreenRoots.  24 MR. GREENE: And I'll add, I was just</p>
<p style="text-align: right;">Page 202</p> <p>1 standards adopted by different agencies for flood  2 risk are also older. If you read it from the bottom  3 up, you'll see recommended minimum elevations  4 increase by more than 6 feet in just the span of  5 about five years.  6 This really illustrates the conundrum  7 that we face. It is simply not enough to say that  8 Eversource is being more conservative than most.  9 What really matters is whether the design criteria  10 are adequate to account for the future flood risks,  11 not how they compare to criteria used by other  12 agencies.  13 We are at an inflection point in our  14 collective understanding about climate change. We  15 recognize that we are facing a massive problem and  16 it's only going to get worse.  17 Moreover, the future looks less and less  18 like the past. We see that our policies and  19 regulations are out of step with rapidly changing  20 conditions. Decisionmakers, like you, have the  21 power and the flexibility to make more informed  22 decisions in the absence of clear or timely policy  23 guidance. The EFSB should err on the side of  24 caution and take seriously the available science to</p>	<p style="text-align: right;">Page 204</p> <p>1 going to mention that we don't have any of the  2 intervenors from the underlying proceeding  3 indicating that they would like to speak, and I  4 don't see them here.  5 MR. DANIELS: I should also bracket my  6 statement and say I'm speaking only about,  7 quote-unquote, "intervenors" in your regulations.  8 I'm not speaking about limited participants, who  9 still have to go.  10 CHAIR THEOHARIDES: Correct. I know  11 they have to go, yes. Okay, so does the Board have  12 any questions, then, at this point for the  13 intervenors? And this can include -- sorry, Chair  14 Nelson, go ahead.  15 I thought you had a point of order. And  16 this can include the company as well. Go ahead.  17 MR. NELSON: We didn't get to the  18 company yet. But I want to start with, I believe,  19 Dr. Marcos Luna, the testimony you just gave in this  20 case.  21 So I want your understanding. So I  22 don't know if either Mr. Young or Mr. Hazle could  23 bring up the chart that he referenced. I believe we  24 saw it the last Board meeting. I just thought that</p>

<p style="text-align: right;">Page 205</p> <p>1 would provide good context, because I think he was  2 providing a critique of that chart that I wanted to  3 ask him about.  4 MR. GREENE: If you'll give us just a  5 moment, we can screen-share that.  6 MR. NELSON: I think I can ask my  7 questions while you bring that up.  8 MR. HAZLE: One quick thing, Mr. Nelson:  9 We've prepared a different chart which has similar  10 information but is also translated into both Spanish  11 and English.  12 MR. NELSON: Great.  13 MR. GREENE: One momentito.  14 MR. HAZLE: This should show the design  15 flood elevations of various different organizations  16 that Mr. Luna, Dr. Luna, referenced.  17 MR. NELSON: Thank you. So Dr. Luna, I  18 think you had indicated that the information here  19 sequentially -- I just want to understand that  20 point, because I think it was an interesting point.  21 Essentially, all this is at the bottom, to kind of  22 the most recent at the top. Could you explain that  23 a little bit more, looking at this diagram?  24 PROFESSOR LUNA: Sure. I haven't seen</p>	<p style="text-align: right;">Page 207</p> <p>1 actually a study, it was just kind of a  2 recommendation based upon a poll of their members.  3 And then after that you start getting  4 into the BPTA, which is based on the Climate Ready  5 Boston guidance, which comes out in 2016. And then  6 in between there you have MassPort, whose design  7 flood elevation recommendations came out -- they had  8 two sets, and they updated them originally in 2015  9 on the Mass. DOT Boston Harbor flood-risk model, and  10 then they updated again when the Climate Ready  11 Boston report came out -- although, interestingly,  12 using the same information, they came out with a  13 higher design flood elevation recommendation than  14 what BPTA had recommended. It's like a foot or 2  15 feet higher. I'm going over my notes right now.  16 So is that clear what I'm saying?  17 MR. NELSON: Yeah, I think I follow. So  18 one of the other critiques that I believe that you  19 mentioned was the number here, we have the 100-year  20 flood in 2070, Climate Ready Boston, which I think  21 is related to the BRAG record that you mentioned.  22 And you had mentioned this was a middle forecast,  23 not a high end. Is that accurate?  24 PROFESSOR LUNA: Correct.</p>
<p style="text-align: right;">Page 206</p> <p>1 this diagram before, so I'm relating it to the  2 document, the tentative decision table, that's  3 there.  4 But if we start at the bottom, the lower  5 end -- so on the original table we had the Mass. DOT  6 Central Artery/Tunnel project report, the Boston  7 Harbor flood-risk model. And that was the lowest  8 flood risk guidance that was being cited or quoted.  9 And that one is based on the fourth assessment  10 report from IPCC. So that one's dating back to 2012  11 or so.  12 And the next one up from that one that  13 was listed was the American Society of Civil  14 Engineers, and that one was based upon FEMA flood  15 risks, and they added two feet to that. And that  16 one dates to 2014, to the ASCE's flood-resistant  17 design construction guidance, which is kind of like  18 the bible for engineers when they're designing  19 things.  20 And then after that it was the ISO New  21 England level, which was tied also to FEMA, and then  22 they initially added a foot or so, and then more  23 recently they added 2 feet. That was 2018, and then  24 they updated it again in 2019. But that's not</p>	<p style="text-align: right;">Page 208</p> <p>1 MR. NELSON: And so do you know what the  2 high end would have been? I'm just trying to  3 understand the kind of range, you know. If it's  4 18.7 feet versus -- you know, that's not  5 significant, but it seems like it was a very  6 significant high end.  7 PROFESSOR LUNA: Yeah. So the way that  8 the projections are provided in the BRAG report, you  9 have kind of like a continuous scale over time, and  10 you have a curve running up over time into the  11 future, and you have this wide band of potential  12 projections that extend into the future through  13 2100. So not surprisingly, they go up as you go  14 forward in time.  15 So that band, the width of that band,  16 reflects different levels of certainty and  17 uncertainty in the projections. And so those are  18 described with varying levels of probability --  19 which I won't get into unless you want me to.  20 But the point is, if you go in the  21 middle of that band, you can describe that as being  22 kind of a middle range and higher probability, which  23 just means that the models show this tends to happen  24 more often. And so this middle band, they'll use</p>

<p style="text-align: right;">Page 209</p> <p>1 the word "likely" scenario, which should be  2 interpreted very carefully, because IPCC and others,  3 following their lead, they use "likely" as a way of  4 indicating a certain range of probability. So let's  5 say 67 percent probable. But if you extend the  6 band, you become actually more certain about  7 capturing the reality of what might happen. So the  8 very likely scenario increases the possibilities of  9 what could happen, both below and above that middle  10 range.</p> <p>11 So the very upper end, the 99th  12 percentile, or the low probability band, let's say  13 the .2 or .1 percent probability, which is kind of  14 like a 500-year flood-event probability, that's when  15 you start getting into, by the end of the century,  16 you get up to about a 10-foot sea-level rise. So  17 now you're talking about almost more than twice the  18 projected height that the middle range would tell  19 you. So you get a dramatically different potential  20 outcome if you look at that outer range.</p> <p>21 MR. NELSON: This is where I want to  22 kind of tie it back to the decision we're making  23 here, because the flooding is a concern, a  24 significant concern, to the site. Here they've got</p>	<p style="text-align: right;">Page 211</p> <p>1 So now you're starting to add high tide,  2 sea-level rise, and then storm surge bringing water  3 into this area. So that can add, depending on which  4 projection you want to go with, a substantial amount  5 of water.</p> <p>6 So if we add 10 feet, let's say, by the  7 end of the century, of sea-level rise, then the  8 100-year flood extent starts pushing into, let's  9 say, 25, 26, 27 feet. So now you're above that  10 design-flood elevation.</p> <p>11 It sounds dramatic compared to where you  12 are now, but we're talking about a lot of change  13 over that time.</p> <p>14 The second point to that, too, is: The  15 site itself is sitting right on the edge of the  16 creek, and it's fairly high at that point. But  17 Condor Street is actually a low point, and there's  18 other pathways by which the water can penetrate to  19 that area. And this has been kind of the perennial  20 problem, or this is the problem for East Boston in  21 general, is trying to, if possible, stop up all  22 these routes for water to penetrate into the area.  23 So that's another thing it doesn't capture right  24 away when you just look at the immediate height</p>
<p style="text-align: right;">Page 210</p> <p>1 the Chelsea Creek mean high-water mark at 9.9 feet  2 and the substation at 23 feet. And so that's kind  3 of more than a 10-foot increase. Do you mind, just  4 for me to understand, why that 23-foot kind of level  5 wouldn't be ideal, or should be higher -- or if I'm  6 not interpreting your testimony correctly.</p> <p>7 PROFESSOR LUNA: No, I understand your  8 question, I think. So a couple of things. So one  9 is that the mean high water line is where the water  10 is typically today, and we expect that over the  11 course of the coming decades, because of sea-level  12 rise -- leaving storms aside for the moment --  13 you're going to add to that height. So then you  14 start adding 4, 5, 6 feet, depending what you want  15 to get to. So now you're pushing to, let's say by  16 2070, 2080, you're at least going to be at 16 feet  17 mean high tide line. That means that that will  18 regularly be underwater daily.</p> <p>19 And then you add on top of that a storm  20 that arrives on top of that high tide line, and  21 that's when we start looking at the 100-year flood,  22 the 500-year flood. So we're adding the extent of  23 the reach inland of that water because of that storm  24 pushing that water inland.</p>	<p style="text-align: right;">Page 212</p> <p>1 relative to the water along that height at the  2 coastline where the substation site would be.</p> <p>3 MR. NELSON: So I think -- I get it,  4 because the mean high-water line rises every year;  5 right? Because that's just -- so the bottom rises,  6 so you have to pay attention to where you're setting  7 that maximum and that sort of fixed amount.</p> <p>8 And I think you want the Board to take  9 into consideration the future of what we know is  10 going to happen here, so that we can -- so that  11 we're not making a mistake by building this too low  12 to sea level. Is that accurate?</p> <p>13 PROFESSOR LUNA: Correct.</p> <p>14 MR. NELSON: Thank you very much.</p> <p>15 PROFESSOR LUNA: Thank you.</p> <p>16 MR. HAZLE: Chair Nelson, are you all  17 set with this graphic here?</p> <p>18 MR. NELSON: I am. Thank you for  19 bringing it up.</p> <p>20 MR. HAZLE: You're welcome.</p> <p>21 CHAIR THEOHARIDES: Mr. Moran?</p> <p>22 MR. MORAN: Thank you. Just one  23 clarifying question for Dr. Luna. When you  24 mentioned the range of uncertainty, if you were just</p>

<p style="text-align: right;">Page 213</p> <p>1 looking at the time period looking at 2070, would it  2 still be that 10-foot worst-case scenario, or that  3 would be going further out than the 2070 date they  4 use?  5 PROFESSOR LUNA: I have two answers for  6 that. So if we looked at the way the charts are  7 presented to you, you have these cutoff dates that  8 were presented in the Climate Ready Boston report  9 and also that are reproduced in the Eversource flood  10 analysis -- 2030, 2050, 2070, 2090, 2100. And 2070  11 shows that the range is topping out, let's say, at 7  12 feet on the higher end. So it wouldn't be near that  13 upper range that was projected or shown to be on the  14 outer end of the period, so after 2070.  15 So on the face of it, it appears that  16 no, you would not get anywhere near that by 2070.  17 However, the time periods that are presented should  18 not be interpreted as being like annual cutoffs,  19 like "By 2030 we think this might happen." There's  20 actually another level of uncertainty that the BRAG  21 report very clearly explains: Those time periods  22 are actually 19-year averages.  23 So when you look at 2030, 2050, 2070,  24 you shouldn't interpret it to say by that date.</p>	<p style="text-align: right;">Page 215</p> <p>1 of some of the comments you made around data access.  2 So you submitted testimony in this case or in the  3 underlying case?  4 DR. WOODS: In this case, yes.  5 MR. NELSON: And you indicated that you  6 did not get access to the data that you were  7 seeking; is that correct?  8 DR. WOODS: That is correct.  9 MR. NELSON: Was it -- did you make that  10 request through the discovery process?  11 DR. WOODS: I -- Josh Daniels might  12 remember this better than I do. But my recollection  13 of what transpired was that my testimony was deemed  14 out of scope because it was addressing the project  15 need and not the location of the project. And so we  16 were not able to formally request those materials as  17 a matter of my testimony.  18 MR. NELSON: Okay. So in that regard,  19 your complaint still stands that you don't have  20 access to the data; is that correct?  21 DR. WOODS: Correct.  22 MR. NELSON: And the .4 percent load  23 growth historically, that information you gathered  24 I'm assuming from the underlying case.</p>
<p style="text-align: right;">Page 214</p> <p>1 What we shouldn't say (sic) is that in a 20-year  2 range around that date you might hit that water  3 level.  4 So there's actually two levels of  5 uncertainty that are being communicated. One is,  6 how high might the water get, but the second is,  7 when might it occur? So it's very possible that you  8 could get higher water elevations much sooner than  9 you anticipated.  10 And this is what I'm considering. This  11 is part of the assessment of risk, is to say you're  12 not assured that that risk doesn't arrive until  13 2070. That risk could arrive in 2050, because of  14 that range, that window range. It's built into the  15 model and it's communicated, but that doesn't come  16 across clearly I think in the way that some of this  17 is presented. Does that make sense?  18 MR. MORAN: It does. Thank you.  19 CHAIR THEOHARIDES: Further questions  20 from the Board?  21 MR. NELSON: I have a couple for Dr.  22 Woods, but I just want to give other people an  23 opportunity.  24 Dr. Woods? I just want an understanding</p>	<p style="text-align: right;">Page 216</p> <p>1 DR. WOODS: No. Actually, Eversource  2 posted that data on their website sometime in 2020.  3 I'm unclear when it went on the website exactly. I  4 just happened to run across it.  5 MR. NELSON: Okay. And so that source  6 is from Eversource. And that was related to this  7 specific substation?  8 DR. WOODS: It was indeed.  9 MR. NELSON: Or this area?  10 DR. WOODS: Yes. They called it -- I  11 can tell you. They called it the Chelsea-East  12 Boston load pocket, yes.  13 MR. NELSON: All right, great. And that  14 was what you used in developing your testimony.  15 I'll ask the company about that when we get to  16 question them.  17 My next question would be: You had said  18 that they made an assumption of .9 percent load  19 growth annually.  20 DR. WOODS: Yes.  21 MR. NELSON: Is what would be the  22 triggering point for the company, and they're  23 currently at .4 percent load growth?  24 DR. WOODS: Those are annual rates of</p>

<p style="text-align: right;">Page 217</p> <p>1 change. So the load -- the peak load data that they  2 gave for 2015 to 2019 equals out to 0.4 percent per  3 year, and then the forecast that they're providing  4 equals out to 0.9 percent per year. And that's the  5 information that -- I'm getting that information  6 from Eversource's website, from information that  7 they posted last year, that actually did not factor  8 into my testimony because I did not have that  9 information at the time I submitted my testimony.  10 So that information was more up-to-date presumably  11 than what I was working with in my testimony.  12 MR. NELSON: Absolutely. And so I would  13 say I guess there's a question -- right? -- that the  14 Board's tackling around the threshold -- right? --  15 for reopening the record, which would allow the need  16 case to be a complete part of the record again;  17 right? Because it was in the underlying case. Did  18 you see any fault in the underlying decision in that  19 case that has changed based on any new information?  20 DR. WOODS: Simply the vintage of the  21 data that was used in the underlying decision.  22 Presumably that data has been updated, which was  23 what I was trying to get at with my oral comments  24 today. Eversource claims that they have updated the</p>	<p style="text-align: right;">Page 219</p> <p>1 electric market and to reflect the most current  2 electric trends. Eversource's --  3 MR. NELSON: Do you know what the two  4 most predominant forces are in driving that load  5 forecast down?  6 DR. WOODS: Not off the top of my head.  7 I would have to look through those materials again.  8 MR. NELSON: That's okay. And then I  9 think my next question would be: Do you think that  10 that trend is likely to continue?  11 DR. WOODS: Yes, I do.  12 MR. NELSON: Why?  13 DR. WOODS: It's a trend that's  14 established itself quite clearly over the last five,  15 six, even seven years -- the CELT load forecasts  16 themselves, the fact that they have been adjusting  17 themselves downwards in order to better reflect the  18 state of reality that we see in electric markets.  19 With that said, I do think COVID-19 and  20 the sort of drastic shifts that we've seen in  21 electric use and energy use more broadly could throw  22 a wrench in that, and I certainly don't have a  23 crystal ball to say how this might play out in the  24 future. But just to say that we are certainly in a</p>
<p style="text-align: right;">Page 218</p> <p>1 data from the 2015 vintage, which I called out as a  2 problem in my testimony because at the time I was  3 submitting that testimony it was, you know, 2019 and  4 that data was already quite old by that time.  5 Eversource claims that they have updated  6 the data. But my questions remain ultimately the  7 same, because the rate of change has -- the rate of  8 growth, load growth, in the East Boston/Chelsea load  9 pocket remains essentially unchanged despite that  10 update.  11 And just to be clear: In the 2015 load  12 forecast which Eversource was previously using, load  13 forecasts for the state and for the region were both  14 anticipated to be positive. In the time that has  15 elapsed since 2015, those load forecasts have  16 changed direction. So load forecasts for the State  17 are now completely flat ultimately and load  18 forecasts for the region are completely negative.  19 MR. NELSON: Do you know what's been  20 driving that decrease in load?  21 DR. WOODS: Changes -- many things. But  22 the load forecasts from CELT have been going  23 basically progressively a little bit down each year,  24 in order to reflect what they see happening in the</p>	<p style="text-align: right;">Page 220</p> <p>1 moment of flat to declining load forecasts for our  2 state and for our region, and COVID-19 only enhances  3 our uncertainty about what we should expect in the  4 next few years.  5 MR. NELSON: Okay. Do you think any of  6 the climate policy will have an impact on potential  7 for that forecast?  8 DR. WOODS: Yes, I do think  9 electrification will increase electric loads in the  10 longer term, and electrification is a matter of  11 policy for the Commonwealth.  12 That said, I don't think that that's a  13 legitimate reason to say that the Chelsea-East  14 Boston load pocket would be this unique pocket of  15 load growth in a sea of otherwise flat and declining  16 loads. If electrification is a trend, which  17 hopefully it is, that will be equally true across  18 most of the Commonwealth. There won't be certain  19 pockets that are electrifying much, much, much  20 faster than everybody else. Presumably that will go  21 forward at a sort of consistent pace across regions.  22 So to me, that doesn't hold water as an  23 explanation for why the Chelsea-East Boston load  24 pocket has a unique possibility of load growth.</p>

<p style="text-align: right;">Page 221</p> <p>1 MR. NELSON: Yeah. And so when I make 2 this statement, please correct anything I might get 3 wrong. But I would say that, from what you're 4 saying here is, we don't know the impact of COVID, 5 we don't know the impact for electrification, and 6 we've seen an historical trend that doesn't line up 7 with building the substation, and those are reasons 8 why you think reopening the record would be 9 appropriate.</p> <p>10 DR. WOODS: Yes, exactly. And I would 11 love to see the actual assumptions around 12 electrification and load growth and customer 13 additions and all of that, to be able to assess the 14 actual data and analysis that's being used to make 15 the claim.</p> <p>16 MR. NELSON: Thank you for helping me 17 clarify some of your comments today.</p> <p>18 DR. WOODS: My pleasure.</p> <p>19 MR. GREENE: Madam Secretary, would you 20 care to take a break at this hour? It's 2:30.</p> <p>21 CHAIR THEOHARIDES: I was just going to 22 suggest perhaps we could take a break. If there's 23 any remaining questions for GreenRoots when we get 24 back, we can do those. And then we can move on to</p>	<p style="text-align: right;">Page 223</p> <p>1 My next questions are for Mr. Daniels, I 2 believe. Just for continuity, Mr. Daniels: I think 3 in your opening statement you made at the last 4 meeting, which was, you know, a while ago, you made 5 some very interesting points around the threshold 6 for reopening the record and kind of how you were 7 viewing it. Just for the continuity of both the 8 Board and also people listening, do you mind giving 9 me a summary of that before we begin our discussion 10 of that?</p> <p>11 MR. DANIELS: Sure. And thank you 12 again. So essentially, the way that I've been 13 thinking about the threshold is, the Board has not 14 inappropriately taken the view that the threshold 15 has to be very high, and our perspective is that's 16 fine. We understand all of the interests around 17 finality that get baked into the consideration 18 whether to reopen a prior adjudication.</p> <p>19 But the question of reopener and that 20 high threshold really presumes that there was the 21 full and fair opportunity to litigate it the first 22 time around, and given, A, the failure to abide by 23 the commands of Section 69J and hold a public 24 hearing in East Boston as required in the underlying</p>
<p style="text-align: right;">Page 222</p> <p>1 questions for the company.</p> <p>2 MR. NELSON: I think I have one more for 3 GreenRoots in my series, and then I have have some 4 for the company.</p> <p>5 CHAIR THEOHARIDES: Okay, great. So we 6 will reconvene at -- should I make it a round 7 number, Mr. Greene?</p> <p>8 MR. GREENE: I think that would be a 9 good idea.</p> <p>10 CHAIR THEOHARIDES: At 2:40. 11 (Recess taken.)</p> <p>12 CHAIR THEOHARIDES: To the stenographer, 13 can we go back on the record, please. Good to go, 14 Dr. Luna.</p> <p>15 PROFESSOR LUNA: Thank you. Just a 16 question about the maximum sea-level rise by 2070, 17 was a question, and I said 7. I was looking at the 18 wrong row.</p> <p>19 So 4.8 feet is what the BRAG report 20 shows on the projections. But again, emphasizing 21 that we're looking at not really 2070 but a range 22 around that. It could be sooner than that.</p> <p>23 MR. NELSON: Thank you. That's very 24 helpful.</p>	<p style="text-align: right;">Page 224</p> <p>1 proceeding -- the first public hearing was held in 2 February two years ago for this project change 3 proceeding, and by that time Board staff had 4 essentially taken the issue of need already off of 5 the table. And B, the concerns that Ms. Woods has 6 brought up around access to the data to make that 7 showing. I think that that --</p> <p>8 (Discussion off the record.)</p> <p>9 MR. DANIELS: We understand all of the 10 interests around finality that get baked into the 11 consideration whether to reopen the final 12 adjudication. But given two things: A, the Board's 13 prior failure to hold a public hearing in East 14 Boston in the underlying proceeding as required by 15 the Board's statute, Chapter 164, Section 69J -- I 16 note that the first public hearing in East Boston 17 was held two years ago this month, actually, on 18 February 5th of 2019, in the project-change phase of 19 things, after staff had already taken the issue of 20 need off of the table.</p> <p>21 The second concern is the one that 22 Ms. Woods has raised around access to the data 23 needed to make this very high showing.</p> <p>24 In that regard, just to answer some of</p>



<p style="text-align: right;">Page 225</p> <p>1 your questions, Mr. Nelson, about the discovery  2 process: In the project-change proceeding,  3 GreenRoots did promulgate to Eversource discovery  4 requests asking for updated data around the question  5 of need. They objected that it was out of scope.  6 We did not bring a motion to compel at that time,  7 and given what transpired since then, I think it's  8 fair to say that any such motion would have been  9 futile. And so we just went forward with the best  10 case that we could using the data that we had.  11 I would also note that we did provide  12 Ms. Woods with what we could from the underlying  13 proceeding that was available from the public  14 docket, and most of the data for the need  15 demonstration was actually redacted. So that was  16 another hindrance.  17 Given those two concerns about  18 fairness -- and again, understanding that the high  19 threshold for reopener reflects a presumption that  20 you already had a full and fair opportunity to  21 litigate the first time around -- our perspective is  22 that it's appropriate to relax the showing somewhat.  23 If you're going to essentially shut out the  24 community from having the public hearing in the</p>	<p style="text-align: right;">Page 227</p> <p>1 public hearing that was held in that underlying  2 case. And I'm just asking for the distinction of  3 how you were classifying the statute that we  4 violated, whether we didn't hold a public hearing or  5 whether that it wasn't in East Boston.  6 MR. DANIELS: So to answer both  7 questions: What 69J, the fourth paragraph -- and I  8 direct you specifically to the third sentence of  9 that fourth paragraph -- says is that, in addition,  10 a public hearing shall be held in each locality in  11 which a facility would be located or in which an oil  12 facility -- which is not so, that doesn't apply --  13 is located, except that a public hearing shall not  14 be required in a locality containing a proposed site  15 if such a hearing has already been held in regard to  16 that particular facility on that particular site in  17 conjunction with a previously filed petition.  18 So I read that sentence to require that  19 when you have a facility that is proposed to be  20 sited in a particular locality and no one disputes  21 that the substation meets the statutory definition  22 of a "facility" under Section 69G, you're supposed  23 to hold a public hearing in each locality in which a  24 facility would be located. You held public hearings</p>
<p style="text-align: right;">Page 226</p> <p>1 underlying phase, and also if you're going to deny  2 the intervenors access to the data that they  3 actually need to make that showing, there's a real  4 chicken-and-egg problem.  5 MR. NELSON: Thank you, Mr. Daniels, for  6 that summary. So to the first question that you  7 brought up, around the public hearing and the  8 underlying case: You're saying that the Board is in  9 violation of its own statute; correct?  10 MR. DANIELS: The Board violated its  11 statute in the underlying proceeding.  12 MR. NELSON: Okay. And when you make  13 that assertion, could you explain that -- did the  14 Board not hold the public hearing?  15 MR. DANIELS: I'm not sure I got the  16 question.  17 CHAIR THEOHARIDES: Hold for one minute.  18 It seems like we're having technical difficulties.  19 (Discussion off the record.)  20 MR. NELSON: Mr. Daniels, so I mentioned  21 that you had asked if we violated our statute --  22 that was the assertion you made -- in the underlying  23 case. You had indicated that a public hearing was  24 not held in East Boston. I had asked if there was a</p>	<p style="text-align: right;">Page 228</p> <p>1 in, I believe, Chelsea and Revere where the  2 transmission lines were going through. You did not  3 hold one in East Boston, where the substation was  4 proposed to be sited. And I don't think the  5 statutory exception for a previously filed petition  6 would cover you because there wasn't a previously  7 filed petition at that time.  8 No one raised this particular failure to  9 abide by this requirement, and no one appealed it  10 because essentially Channel Fish got what they  11 wanted and settled with Eversource. And so none of  12 the remaining parties had an incentive to make -- to  13 raise an issue about it any more.  14 But I think it was still not in  15 compliance with the statute, and it should still  16 factor into how much preclusive effect, let's say,  17 you're going to give to the decision in the  18 underlying proceeding.  19 MR. NELSON: Thank you. And on the  20 subject of need -- and we heard the testimony from  21 Dr. Woods earlier. Let me ask you this: What, in  22 your opinion, has changed from the underlying  23 proceeding to now in terms of need?  24 MR. DANIELS: In terms of need, I think</p>

<p style="text-align: right;">Page 229</p> <p>1 the primary thing -- and bracketing that I am not  2 the expert in this. But my understanding is, what  3 has changed is more time has passed, and so the  4 underlying data on which the prior need  5 determination is based has gotten staler and staler.  6 We're now approaching -- if you think  7 about the fact that electric system planners plan in  8 ten-year increments, the fact that we're now on the  9 far side of that ten-year -- of that ten-year span  10 should give a lot of concern about whether it's  11 still reasonable, whether it's still rational, for a  12 planning agency such as this one to still be relying  13 on that data, especially when the consistent trends  14 statewide and regionwide for whatever reason,  15 whether it's, you know, the addition of behind-the-  16 meter improvements or the increasing use of, you  17 know, distributed solar generation -- for whatever  18 reason, we know that there have been sustained  19 decreases in load forecasts over the last several  20 years, and there doesn't seem -- and there's only  21 speculation really that maybe electrification is  22 going to reverse that trend, but no real showing  23 that that's likely to happen.  24 MR. NELSON: Right, there's no</p>	<p style="text-align: right;">Page 231</p> <p>1 said, there's a fifth one now, there's this MassPort  2 project, that they barely told us or staff anything  3 about it in this phase of the proceeding.  4 So the justification for the specific  5 need for this project on a site-specific basis from  6 Eversource has actually shifted. They've also  7 pushed back their projections for when the project  8 would be needed. We were originally told in the  9 underlying proceeding it would be needed by 2018 or  10 the sky would fall, and now I think they pushed it  11 back to 2022 or 2023. It's hard for me to keep  12 track.  13 So, you know, the fact that those step-  14 load additions have all come on line and they keep  15 either, A, grasping for new ones to justify the  16 continuing need for the project or, B, pushing back  17 their horizon for when the project is going to be  18 needed gives us reason to question whether the  19 project actually is still needed and, you know, to  20 see whether a new need demonstration would be  21 appropriate in this circumstance.  22 MR. NELSON: So let's say in this case  23 we reopen the record and we take a look and it's  24 determined that, due to a number of extraneous</p>
<p style="text-align: right;">Page 230</p> <p>1 electrification in the underlying docket. That  2 wasn't considered. Is that correct?  3 MR. DANIELS: Correct, nor in this  4 docket.  5 MR. NELSON: Well, we haven't  6 adjudicated need in this docket. Would you agree  7 with that?  8 MR. DANIELS: Correct, correct.  9 MR. NELSON: So I think in the Board's  10 determination of whether to reopen the record, I'm  11 just trying to get an understanding of what the  12 basis that we would be setting here would be,  13 because I think that's critical in order to  14 understand the impact that's going to have not only  15 on this case but on all our precedent; right?  16 MR. DANIELS: Right. And to complete my  17 answer: The other thing that has changed is, the  18 other prior-need determination also cited particular  19 step-load additions that were justifying the need  20 for this project, and there were four specific  21 step-load customers. All of them came on line.  22 And, you know, we have not experienced -- there's  23 been no indication that with them coming on line --  24 Actually, what happened was, Eversource</p>	<p style="text-align: right;">Page 232</p> <p>1 factors, the site's not needed, Option 1. Then the  2 site doesn't go forward.  3 Option 2, I'm just wondering your  4 perspective: Let's say the determination of  5 reopening the record determines the site is needed;  6 right? So the people in East Boston need this  7 substation for reliable electric power. What would  8 that change, in your opinion, for your position?  9 Would you be arguing more about the location?  10 Obviously we have flood concerns. I'm just  11 wondering how that would change the scope of the  12 arguments here for the community.  13 MR. DANIELS: So I think under Option 1  14 the answer is very clear, because if the substation  15 is no longer needed, it can't be justified as  16 minimum environmental impacts and least possible  17 costs if it's not needed.  18 Under Option 2, I think the argument  19 really does shift to a more location-centered  20 discussion around whether this is really -- okay, a  21 substation is needed in East Boston, this project is  22 needed for East Boston. Where should this  23 substation actually go? And I'd refer you to Mr.  24 Walkey's comments from last time. You know, we</p>

<p style="text-align: right;">Page 233</p> <p>1 would say the plurality of the power that's going to  2 be supplied by the substation is going to the  3 airport anyway. The airport is already taking steps  4 to harden itself against climate change and  5 sea-level rise. It really makes sense that, rather  6 than impose this on a community and a neighborhood  7 that does not want it, you know -- the airport would  8 be the primary beneficiary of this substation. They  9 should be the one to host it.</p> <p>10 MR. NELSON: If the airport -- so if the  11 airport's the ideal site, why do you think  12 Eversource did not propose to put the site there?</p> <p>13 MR. DANIELS: You'll have to ask them  14 that question.</p> <p>15 MR. NELSON: I will. Trust me. Okay.  16 I'm just wondering if you have any speculation.</p> <p>17 MR. DANIELS: I do not have any  18 visibility into those discussions, if they took  19 place.</p> <p>20 MR. NELSON: Thank you. And I think the  21 only other question I have for you is -- let's see  22 here. No, I think you've answered most of my open  23 questions. So thank you very much, between today  24 and the last meeting. I appreciate your time.</p>	<p style="text-align: right;">Page 235</p> <p>1 public comment hearings, and our regulations do  2 indicate that the Board shall hold a public comment  3 hearing in one or more of the affected cities or  4 towns. It has been the Board's practice when we  5 have linear projects, transmission lines, to pick a  6 couple of locations, not hold the public comment  7 hearing in every single community that the line goes  8 through. We have never been overturned on that  9 point, either.</p> <p>10 CHAIR THEOHARIDES: And is there  11 guidance about how the community -- you know, if  12 it's multiple communities, how the community where  13 it's ultimately -- where the meeting is ultimately  14 held, how that's chosen? Or is that up to the  15 Board's discretion?</p> <p>16 MS. EVANS: There's no guidance in the  17 regulations on that. It's up to the Board's  18 discretion, especially seeing it's very  19 fact-specific on the particular project.</p> <p>20 We could have held more public comment  21 hearings, but that's the decision that was made in  22 the original proceeding.</p> <p>23 CHAIR THEOHARIDES: Okay, thank you.</p> <p>24 MR. GREENE: If I could add just one</p>
<p style="text-align: right;">Page 234</p> <p>1 MR. DANIELS: Thank you.</p> <p>2 CHAIR THEOHARIDES: Mr. Nelson, I just  3 had a followup question for Mr. Daniels about the  4 procedural issue of the Board not holding a hearing  5 during -- I think I'm understanding -- the first --  6 the needs determination for the project. And my  7 understanding is it was not appealed at the time as  8 a part of that hearing.</p> <p>9 MR. DANIELS: So I think that that's  10 right. So the Board did not hold the required  11 hearing in East Boston. No one appealed because,  12 again, the main disputants were Eversource and  13 Channel Fish, and they were able to settle this by  14 proposing the change of site location.</p> <p>15 CHAIR THEOHARIDES: And Mr. Greene or  16 Ms. Evans, that's correct? There was not a Board  17 hearing conducted in East Boston at the time of the  18 needs determination hearing?</p> <p>19 MS. EVANS: In the original procedural  20 the Board meeting -- the public comment hearing was  21 held in Chelsea.</p> <p>22 I will note that Mr. Daniels did quote  23 our statute on locations of public comment hearing.  24 There's further information in our regulations on</p>	<p style="text-align: right;">Page 236</p> <p>1 other point, which is: Generally, with projects  2 which do encompass multiple municipalities, we tend  3 to select a location that is near where people live;  4 right? So even if it's not in the particular  5 community where a line may run through or even a  6 substation, if the hearing is still accessible to  7 members of the project community broadly.</p> <p>8 Chelsea is not far, at least as the crow  9 flies, from East Boston. I realize there's a creek  10 in between, and that obviously can impede the  11 ability of people to get from one town to another.  12 But they're not far away from each other, and that's  13 sort of to the point that Ms. Foster Evans was  14 making.</p> <p>15 CHAIR THEOHARIDES: Okay. Thank you.  16 You know, I think for a number of us who were not  17 involved at the time, just revisiting some of these  18 details is helpful. Thank you.</p> <p>19 Are there other questions for  20 GreenRoots? I know, Chair Nelson, you have  21 questions for the company. I have some questions.  22 But others from the Board?</p> <p>23 MR. WOODCOCK: Secretary?</p> <p>24 CHAIR THEOHARIDES: Commissioner.</p>

<p style="text-align: right;">Page 237</p> <p>1 MR. WOODCOCK: I did want to ask  2 Mr. Daniels: In the tentative decision it does  3 raise some concerns about, from GreenRoots, about  4 the esthetics of the proposed change and indicated  5 that there are suggested improvements that could be  6 done for engagement with the community. Could you  7 elaborate on that and any suggestions for the Board  8 if we were to consider this new site?  9 MR. DANIELS: So from GreenRoots's  10 perspective -- and I think the record is pretty  11 clear that the community is opposed to the siting of  12 the substation in this neighborhood. And so, you  13 know, in terms of esthetics, that seems to be, my  14 sense -- and Mr. Walkey is closer to the actual  15 members of the community, since he lives and works  16 with them on a daily basis.  17 You know, in terms of, if what you're  18 asking is would the esthetics -- would contribution  19 of the community on the question of what the thing  20 looks like once it's actually there placate the  21 community's concerns, I think the answer would be  22 no. You know, my recollection -- and again, it's  23 been over a year since the evidentiary hearings,  24 where this issue was raised and where there was a</p>	<p style="text-align: right;">Page 239</p> <p>1 from the community's perspective the concern was  2 just having like a large blank wall right up against  3 the sidewalk across the street from the playground  4 is just not exactly all that appealing, no matter  5 how it's designed, really, what color it is or  6 whatever.  7 MR. WOODCOCK: Okay. Thank you.  8 CHAIR THEOHARIDES: This question might  9 be for Mr. Daniels or for others on the GreenRoots  10 team. But I have heard some concerns and questions  11 about other environmental impacts from the  12 substation itself, you know, beyond the flooding  13 risk, and was wondering if you or others could speak  14 to some of those concerns.  15 MR. WALKEY: I think in general in the  16 underlying proceedings there was quite -- and  17 obviously, the project change came about as a result  18 of concerns related to electromagnetic radiation.  19 Within the community there's a lot of  20 concern regarding health effects of exposure to very  21 high levels of EMR. We did not -- in looking at the  22 literature, public health literature, on this --  23 there is a relationship in some pooled health  24 studies looking at incidence of childhood leukemia</p>
<p style="text-align: right;">Page 238</p> <p>1 suggestion by the presiding officer at that time  2 that more input was needed on the issue of  3 esthetics. And there were some attempts at meetings  4 since the evidentiary hearings were raised, which my  5 recollection is that they were not, you know -- they  6 tended to be in the middle of a workday and did not  7 foster -- were not conducive to a lot of people  8 showing up.  9 MR. WOODCOCK: Thank you. If anybody  10 else wants to comment on that question, I'd  11 certainly be open to additional suggestions on  12 improvement for engagement with the community.  13 MR. WALKEY: At this point in time,  14 under the conditions of the pandemic, it's very -- I  15 mean, we've had challenges here in terms of  16 connectivity. And just to reiterate what Josh  17 Daniels had said: They did hold a design --  18 Eversource held a design session that was over in  19 the North End during a workday. We did not attend.  20 It did take some suggestions.  21 I think the design has been tweaked over  22 time, and in relation with the Conservation  23 Commission in the City of Boston, there's been some  24 additional landscaping on the outside. But I think</p>	<p style="text-align: right;">Page 240</p> <p>1 and exposure to this. But someone would have to be  2 living like right in one of the transformer bays.  3 It would be very, very necessary to be close to it.  4 But I think in general the perception  5 from the community is that is an outside risk.  6 However, we are moving it closer to a playground  7 where there are children, and we saw it was enough  8 of a risk for the operations of a business on the  9 eastern side of the property; why shouldn't it be  10 also a consideration for our children who are  11 playing on the western side of the property. So  12 that speaks to what the concerns of the community  13 were on that.  14 I think relative to environmental  15 justice and public health impacts, the concern was  16 one of right now it's a vacant lot. It did have a  17 consent order on it or whatever to get it cleaned.  18 It was a 21E site. So the City of Boston was on the  19 hook to clean it, and Eversource has gone forward  20 and cleaned it, which is a benefit.  21 But the opportunity for that site, which  22 for the City of Boston's open space plans for the  23 last 20, 25 years have designated that site as for  24 use for open space -- an extension potentially of</p>

<p style="text-align: right;">Page 241</p> <p>1 the Condor Street Urban Wild, which is immediately  2 adjacent to it. So there's a sense that something  3 was being taken away from the community in terms of  4 an opportunity for something that could benefit  5 either -- even if it was a re-industrial use that  6 resulted in economic opportunities for residents, or  7 if it became an open space, and now, in light of  8 climate change, something that could be designed to  9 prevent flooding into the neighborhood -- that this  10 is no longer a potential asset for the community but  11 it becomes a liability for the community.  12 And then relative to its connection to  13 the Mystic generating station, which is just down  14 the street, which obviously its operations have  15 health impacts, climate impacts on the community --  16 so there was some concern about that, although with  17 the future of the Mystic generating station being in  18 question, that may not be as big of an issue.  19 And finally, in terms of the reliability  20 of -- the benefit of having it there relative to  21 electrification and things like that, the push for  22 electric cars and such, I don't think we can assume  23 that that is going to be homogeneously -- that  24 demand will be homogeneously distributed across the</p>	<p style="text-align: right;">Page 243</p> <p>1 and then two parks and a very densely populated  2 neighborhood.  3 And as folks from East Boston have --  4 you know, longer-term folks from East Boston know  5 the history of Chelsea, there have been several  6 fires in Chelsea which have decimated neighborhoods  7 and left people stranded.  8 Folks have that in their memory and see  9 the wooden structures in a very densely populated  10 neighborhood and are worried about their homes that  11 they've worked so hard to purchase and to maintain,  12 especially during these extremely difficult economic  13 times -- and then their kids playing in playgrounds,  14 as we've heard Representative Madaro say earlier  15 today. Having your kids play in that playground  16 next to an electrical substation and jet fuel along  17 the Chelsea Creek doesn't make anybody feel all warm  18 and fuzzy about where their kids are playing and  19 where they're located.  20 And again, just to reiterate what John  21 said: We always look at Massachusetts as being so  22 progressive and we're moving towards a cleaner  23 climate, but who is shouldering those burdens again  24 and again and again? It's put on the backs of black</p>
<p style="text-align: right;">Page 242</p> <p>1 Commonwealth, given the cost of what a Tesla goes  2 for. We're not going to be seeing the people in  3 East Boston and Chelsea suddenly stocking up on  4 electric cars and needing a whole lot of electrical  5 infrastructure for that. That would be something  6 you'd see in probably wealthier communities.  7 So I think in the end the public health  8 impacts is more of a question of people feeling as  9 if this is one more burden put on them.  10 MS. BONGIOVANNI: If I could call in.  11 I'm calling from my car. I'm required to shuttle my  12 children around without other assistance.  13 John covered this, but I think one of  14 the things that folks are most concerned about is  15 the possibility that this substation could explode;  16 and maybe there is such a slight risk of that. But  17 as we've heard Marcos say earlier today, there are  18 several risks that we definitely need to take into  19 consideration. And so just the small or slight risk  20 that this substation could catch fire, like we've  21 seen in other parts of the country over the past  22 three to five years in, you know, numerous places --  23 should that substation explode, catch on fire,  24 flood, et cetera, it's right near the jet fuel tanks</p>	<p style="text-align: right;">Page 244</p> <p>1 and brown communities to shoulder the burden for all  2 of these other communities' benefits. And at what  3 point do we say -- or recognize the environmental  4 insults and injustices that we have in our own  5 neighborhoods and stand up for what we believe in as  6 a state and say this isn't fair, this industry  7 shouldn't be here.  8 And I want to just go back to the point  9 about the esthetics, the question earlier today. We  10 can look at bacon all day and say that's good and  11 healthy for us but it really isn't. We could wrap  12 that bacon or that pig in a very healthy dress and  13 at the end of the day that bacon isn't going to be  14 healthy for us.  15 The same is true here with this  16 situation: We can make that substation look as  17 pretty as it possibly can be, but at the end of the  18 day the company is simply not showing us the data  19 that says that it is needed. Time and time and time  20 again folks have asked for the company to prove it.  21 If I was the attorney for Eversource and  22 I had data showing clearly that it was needed, I  23 would be jumping up and down in my seat saying,  24 "Take a look at it. Here it is. It's here for you</p>

<p style="text-align: right;">Page 245</p> <p>1 to all see." But we haven't seen that happen.  2 So that tells me that this in fact is  3 not needed and there's a lot of coverup that's  4 happening here right now. Thank you.  5 CHAIR THEOHARIDES: Sorry, I was muted.  6 I have one additional question for Dr. Luna, going  7 back to some of the flooding discussion. This is,  8 you know, a little bit of a hypothetical question.  9 Well, two questions, I guess. The first  10 question is: Is there a suggestion you would have  11 for siting -- for amendments the Board could adopt  12 to more safely site this project in this location;  13 and, you know, given that the -- and I, you know,  14 realize there is this question of need. But given  15 the need for an electrical substation, is there a --  16 and given East Boston's general low-lying nature, is  17 there a better location for the substation in the  18 sort of direct area? This might be too far afield  19 from what you've looked at in terms of this project.  20 PROFESSOR LUNA: So I guess I have a  21 couple of answers potentially. You can always build  22 something really high, and I think if you follow  23 what happened -- particularly, post-Hurricane Sandy  24 or Superstorm Sandy, and looking at the New Jersey</p>	<p style="text-align: right;">Page 247</p> <p>1 that can't go underwater for very long should  2 probably be built somewhere else.  3 In East Boston currently the planning  4 from Climate Ready Boston is to try to plug holes  5 along the perimeter to prevent water from  6 encroaching in the vulnerable low-lying areas. But  7 I think in the case of this particular facility,  8 there's a number of places that are just not as  9 close to the risk. The original location before the  10 land swap, my understanding, with the City had the  11 substation much further inland in the neighborhood  12 in an area -- and it could have been, you know, that  13 much further, and they would still need to be  14 elevated, because there's still potential for  15 flooding. I mean, the airport isn't that much  16 higher elevationwise on the whole than the rest of  17 East Boston, but the difference is that they put  18 more resources in plugging the edges, the holes, to  19 keep water from entering those areas. But it's  20 still going to face a problem, and they'll have to  21 reengineer it probably over the coming decade.  22 So I think in this case what we're  23 looking at is trying to just get ahead of a problem  24 that we know is going to get worse. And so it just</p>
<p style="text-align: right;">Page 246</p> <p>1 coastline and certain parts of New York -- and one  2 solution has been to build houses on stilts in order  3 to maintain the presence along the coastline. And I  4 think most scientists and others who are risk-averse  5 would say that that's not a good idea, you're still  6 in harm's way, you're just trying to work around it,  7 and you're still running the risk of other types of  8 connected problems that can occur, not just the  9 immediate onrush of water, but the undermining of  10 the stability of the soil, changes in the ecology.  11 There's all kinds of things that can  12 change over time besides just water getting higher.  13 So in general the idea is to not build along  14 coastlines any more because we know that this is  15 just a risk zone. And so I think that's one of the  16 conundrums that we're facing as a society and here  17 in Massachusetts is deciding how to treat coastal  18 development.  19 And so, you know, areas that are prone  20 to flooding, you want to put things that are -- can  21 absorb that easily, without -- you know, they can be  22 submerged with no real loss. So that's why parks  23 and swales and green infrastructure are wonderful  24 solutions along coastlines and then critical stuff</p>	<p style="text-align: right;">Page 248</p> <p>1 doesn't seem like the best location along the  2 coastline to put something like that. If you made  3 it 50 feet high, it would be good for a few decades.  4 But I can't imagine that would be acceptable or  5 cost-effective.  6 So I don't know if I answered your  7 question.  8 CHAIR THEOHARIDES: No, no, that's  9 helpful. I appreciate it. Are there other  10 questions? Yes, Mr. Moran.  11 MR. MORAN: Just, I guess, a similar  12 question for GreenRoots: Recognizing that the most  13 significant issues relate to the need for the  14 project and ultimately having it located in this  15 neighborhood, the decision before us is focusing on  16 shifting it from one part of the parcel to the  17 other. And I just don't know, based on the other  18 environmental considerations, whether you have a  19 preference as to which location you prefer or if  20 there are specific environmental issues related to  21 the change that are most concerning.  22 MR. DANIELS: I think part of the  23 awkwardness and sort of the elephant in the room  24 here is that you have the substation at an approved</p>

<p style="text-align: right;">Page 249</p> <p>1 location on the other side of the parcel.  2 Eversource doesn't own that land any more, because  3 of the land swap. And so if you don't approve the  4 moving of the substation to this parcel, you'll have  5 to ask them what happens in that circumstance --  6 whether they could unwind the land swap somehow.  7 But as between those two locations, I  8 don't believe GreenRoots has a preference. I'm  9 going to defer to Dr. Luna about, you know, what is  10 the comparative flood risk between this site and  11 what he understands of the flood risk at the old  12 site. But I can't imagine that it's materially  13 better or worse, given the time horizon and the  14 risks and the range of risks that we're talking  15 about.  16 And in terms of need, you know, if it's  17 not needed in East Boston, then it's not needed at  18 either location.  19 Then, you know, John Walkey, it looked  20 like you might have wanted to weigh in as well.  21 MR. WALKEY: No, that's fine. I think  22 that either side of the property is a risky  23 endeavor. And actually, the other side of the  24 property, there's a little bit of a ravine there</p>	<p style="text-align: right;">Page 251</p> <p>1 MR. GREENE: It is your preference.  2 CHAIR THEOHARIDES: Okay. Given that  3 the Conservation Law Foundation is here and did not  4 have the opportunity to speak at the last meeting  5 yet, perhaps we should move to that.  6 MS. CAHN: Does that mean that I am up?  7 CHAIR THEOHARIDES: I was just going to  8 call you. Yes.  9 MS. CAHN: Thank you so much, Madame  10 Secretary, and I appreciate the opportunity. Good  11 afternoon, Madam Secretary, members and staff of the  12 Siting Board, elected officials and community  13 members. My name is Amy Laura Cahn. Until close of  14 business last Friday I directed the environmental  15 justice program at the Conservation Law Foundation,  16 a limited participant in this proceeding. As of  17 today I'm a visiting professor and acting director  18 of Vermont Law School's environmental justice  19 clinic. Attorney Erika Kyzmir-McKeon is also here  20 on behalf of CLF, but I will testify for the  21 organization, as I've been the attorney for CLF in  22 this matter since immediately following the Siting  23 Board's November 2017 hearing in the underlying  24 proceeding.</p>
<p style="text-align: right;">Page 250</p> <p>1 that is experiencing a decent amount of erosion over  2 time. So I think either location has got a lot of  3 flood-related challenges. Actually, the other side  4 of the property is closer to the jet fuel, and this  5 side of the property we're considering is closer to  6 the playground. So it's, you know, between a rock  7 and a hard place.  8 MR. MORAN: Thank you.  9 CHAIR THEOHARIDES: I'm not seeing  10 additional questions from the Board, but keep in  11 mind that I may not see you, so unmute yourself and  12 make yourself known if you do have additional  13 questions for GreenRoots.  14 And Mr. Greene, I believe this is the  15 time when, once we're through with questions for  16 GreenRoots, we can move to questions for the  17 company. Is that correct?  18 MR. GREENE: Yes, you can. And next up  19 would be the limited participants. And I believe we  20 have Conservation Law Foundation in the panel right  21 now.  22 CHAIR THEOHARIDES: That was my  23 question. Should I move to the limited participants  24 first or to questions for the company?</p>	<p style="text-align: right;">Page 252</p> <p>1 I am here to ask: Why are we here? Why  2 are we here when this proceeding and the one  3 underlying it have over many years marginalized  4 residents with limited English proficiency? Why are  5 we here when those issues and the resulting actions  6 taken by CLF, GreenRoots, and Lawyers for Civil  7 Rights to enforce civil rights compliance remain  8 fundamentally unresolved?  9 The Siting Board has the power and the  10 responsibility to ensure that East Boston and  11 Chelsea residents with limited English proficiency  12 have meaningful access to these proceedings, to  13 ensure that LEP residents understand and are heard.  14 This is required to meet the Siting Board's own  15 mandate to ensure a record that is substantially  16 accurate and complete and to comply with  17 Massachusetts law and policy and Federal civil  18 rights law.  19 I want to call attention to an exchange  20 regarding language access that occurred during the  21 first part of this hearing on December 16th, 2020.  22 Chair Nelson asked: "Do you think that you've met  23 and complied with language access laws in this  24 decision?" Presiding Officer Evans said, "I believe</p>

<p style="text-align: right;">Page 253</p> <p>1 we have." Chairman Nelson asked, "Do you think that  2 you did so in the underlying decision?" Presiding  3 Officer Evans responded, "I think that we -- we were  4 responsive to the requests we received, but we have  5 provided more access in this proceeding."  6 This is a stunning rewrite of history.  7 Respectfully, any statement about compliance and  8 responsiveness would be patently untrue. Spanish-  9 -speaking East Boston and Chelsea residents have been  10 excluded from participation consistently throughout  11 this and the underlying proceeding. Each incident  12 has been documented for both State and Federal  13 officials, but the exchange quoted above and the  14 tenor and treatment of the tentative decision  15 relative to these issues indicate the need to ensure  16 the information is, once again, put into the record  17 and heard by the public.  18 First, an advance request by GreenRoots  19 for simultaneous interpretation at the November  20 30th, 2017 Siting Board hearing in the underlying  21 proceeding was denied by the prior presiding  22 officer, who deemed simultaneous interpretation too,  23 and I quote, "disruptive" and provided an  24 interpreter only for the purpose of ensuring that</p>	<p style="text-align: right;">Page 255</p> <p>1 proceeding were left out of the interpretation. The  2 interpreters lacked both the expertise in  3 simultaneous interpretation and technical knowledge  4 needed to provide adequate interpretation, such that  5 one interpreter apologized and acknowledged that her  6 own work was subpar, while another interpreter  7 mocked a resident's inability to understand the  8 content. I witnessed the latter.  9 Fourth, in preparation for the hearing  10 on the tentative decision in this proceeding, the  11 Siting Board staff distributed via email a  12 Spanish-language translation of the tentative  13 decision at 6:16 p.m. on March 5th, 2020, six days  14 following the release of the English-language  15 version and less than 23 hours prior to the deadline  16 for the final written comments to be received in  17 this proceeding. It was not until over eight hours  18 later that all on the service list were informed  19 that the comment period would be extended until  20 Tuesday, March 10th, 2020, still providing Spanish-  21 speaking residents with less time to comment than  22 their English-speaking counterparts.  23 Fifth, by March 6th, 2020 Board staff  24 had not secured interpretation services for the</p>
<p style="text-align: right;">Page 254</p> <p>1 the members of the Siting Board understood comments  2 from and could ask questions of the one person with  3 limited English proficiency who was able to testify.  4 The remaining speaking residents sat through a  5 four-hour hearing unable to comprehend the content.  6 Second, when GreenRoots requested  7 simultaneous language interpreters for the balance  8 of the evidentiary hearings in this proceeding, the  9 prior presiding officer responded to concerns raised  10 by counsel for GreenRoots as if providing language  11 access was an inconvenience. The presiding  12 officer's initial solution was to offer  13 interpretation services in a separate hearing room,  14 with no video images of the proceedings underway,  15 secluding the non-native-English-speakers from the  16 proceedings where they would have been unable to  17 determine who was speaking and which entity this  18 speaker represented.  19 Third, while simultaneous interpretation  20 services were ultimately provided in the evidentiary  21 hearing room, the services themselves were woefully  22 inadequate and included technical challenges,  23 persistent mistakes in translation, time lags, and  24 periods of silence in which whole sections of the</p>	<p style="text-align: right;">Page 256</p> <p>1 originally scheduled March 11th hearing and on that  2 date delegated responsibility for this task to  3 Eversource.  4 Sixth, as recently as the December 16th,  5 2020 hearing, we witnessed disparities in access to  6 this proceeding, including differential language  7 access for people with access to Zoom versus those  8 without, a disparity that impacted both those  9 without Internet access and those who faced the  10 Board's cap on Zoom participation; subpar  11 interpretation services consistent with prior  12 incidences; and an overall failure to provide  13 direction and technical support for those attempting  14 to access interpretation services.  15 As a result of ongoing language access  16 failures, GreenRoots, Lawyers for Civil Rights, and  17 CLF have filed four civil rights complaints against  18 the Siting Board and its parent agencies.  19 I will note, as I believe the amendments  20 to the tentative decision have noted, that U.S. EPA  21 has declined to bring an enforcement action because  22 of perceived jurisdictional limitations. That is  23 true. Instead, EPA initiated a broad civil rights  24 compliance review of EEA and its subagencies. In</p>



<p style="text-align: right;">Page 257</p> <p>1 the context of a Federal administration inclined to  2 roll back rather than enforce civil rights, to think  3 that our complaint was of no moment to the U.S. EPA,  4 to think that there is no problem here, flies in the  5 face of reality.</p> <p>6 Moreover, for the Departments of  7 Interior and Transportation, this is not done. We  8 understand that these agencies have been in touch  9 with EEA. A lack of public-facing action by these  10 agencies says nothing about what they will do or say  11 with leadership from a Federal administration  12 publicly committed to environmental justice and  13 civil rights.</p> <p>14 And yet we should not need action by the  15 Federal Government to ensure that the voices of  16 residents with limited English proficiency are heard  17 and incorporated into the record. We do recognize  18 that the Board instituted certain language access  19 measures for the December 16th hearing, has  20 increased the steps taken for this hearing as well.  21 We do recognize that we might be seeing in real time  22 the Siting Board and its parent agencies recognize  23 this as a teachable moment. I hope that is the  24 case.</p>	<p style="text-align: right;">Page 259</p> <p>1 This is likely the end of the line. I  2 hope it is not. A chance at a voice today will not  3 change being systematically being excluded from the  4 record over a period of years. It behooves the  5 Siting Board to do better by Chelsea and East  6 Boston. You have the power and a mandate to do so.</p> <p>7 And why are we here when we know that  8 holding this hearing remotely during pandemic  9 conditions further marginalizes all residents of  10 East Boston and Chelsea -- communities of color,  11 immigrant communities, and people with limited  12 English proficiency face cumulative energy and  13 environmental climate burdens, layered with a  14 longstanding and persistent marginalization from the  15 decisionmaking that impacts their lives and their  16 life spans. This is playing out in realtime in East  17 Boston and Chelsea. These impacts combined with  18 COVID-19 have wrought holy hell on Chelsea and East  19 Boston.</p> <p>20 As of December the neighborhood  21 infection rate in East Boston was 7.4 percent, which  22 is the second-highest of all Boston neighborhoods.  23 In Chelsea the infection rate was nearly as high, at  24 a rate of 7.2. Boston's infection rate was 3.9</p>
<p style="text-align: right;">Page 258</p> <p>1 However, let us be clear: This comes  2 after multiple rebuffed requests by community  3 leaders throughout the six years of this proceeding,  4 and at least -- and the prior at least four letters  5 to two successive EEA secretaries for civil rights  6 complaints and the start of an ongoing civil rights  7 compliance review.</p> <p>8 These 11th-hour improvements will not  9 cure the lack of compliance that has marginalized  10 the voices of Spanish-speaking East Boston-Chelsea  11 residents from informing the record and the  12 tentative decision. Any changes instituted now do  13 nothing to serve Chelsea or East Boston in this  14 proceeding, and actions by the Board and staff raise  15 these questions: Why is the Board able to require a  16 multilingual mass mailing to facilitate turnout now  17 but not in November 2017 or February 2020? Why is  18 the Board able to allow simultaneous interpretation  19 now but refused to do so in the past? What is the  20 Board's commitment to access when it has not once in  21 the history of this or the underlying proceeding  22 reached out to community leadership to understand  23 how to make these proceedings truly accessible? And  24 what would a complete record look like if you had?</p>	<p style="text-align: right;">Page 260</p> <p>1 percent overall, and the wealthier areas have an  2 infection rate of 1.6 percent.</p> <p>3 Moreover, in East Boston at least 64  4 percent of workers are employed in jobs that do not  5 allow them to work from home. In Chelsea the share  6 is at least 61 percent. Access to health care,  7 housing, and food are all challenges for East Boston  8 and Chelsea residents that have been exacerbated by  9 the pandemic.</p> <p>10 Moreover, tens of thousands of East  11 Boston residents lack access to broadband Internet,  12 and speeds are comparatively slower versus those in  13 wealthier parts of the city, which already has  14 speeds below the State's average rate. All of these  15 conditions make connectivity to today's proceeding  16 difficult for many and impossible for some.</p> <p>17 On December 7th, 2020, 16 public  18 officials representing East Boston and Chelsea  19 submitted a letter to the Board requesting a  20 postponement, calling attention to the severity with  21 which COVID-19 has attacked East Boston, and  22 highlighting its status as an already-overburdened  23 environmental justice community. The letter urged  24 the EFSB to postpone these public hearings until it</p>

<p style="text-align: right;">Page 261</p> <p>1 is safe to hold them in person and the residents of  2 East Boston can meaningfully participate, and that  3 the EFSB implement any language access measures that  4 the pending 10.06 complaints ultimately require.  5 Both GreenRoots and CLF also requested  6 that the Board postpone the hearings, as did  7 numerous members of the public. Board staff  8 catalogued these requests and amendments to the  9 tentative decision submitted to the Board on  10 December 15th, 2020, but did not respond.  11 Given the daily risks and disruptions  12 caused by current public health and economic  13 conditions experienced by East Boston and Chelsea  14 residents, it is appalling to imagine that they must  15 also engage in public hearings on a project that  16 stands to affect their lives and neighborhoods for  17 years to come. The EFSB has the power to wait and  18 should do so.  19 I ask again: Why are we here? We have  20 reached this juncture in part because existing  21 environmental justice protections are insufficient  22 to safeguard East Boston and Chelsea. As Presiding  23 Officer Evans stated on December 16th, there is no  24 question that this is an EJ community under the EJ</p>	<p style="text-align: right;">Page 263</p> <p>1 Historic siting decisions rooted in  2 segregation and systemic racism have resulted in two  3 communities marked by heavy industrial uses,  4 vehicular and air travel, pollution and  5 contamination, and underserved by the environmental  6 and health benefits that whiter and wealthier  7 communities can take advantage of every day. And  8 those who face these cumulative environmental and  9 public health burdens are the same families  10 suffering the most devastating impacts of the  11 pandemic.  12 We still do not have sufficient tools to  13 safeguard these two communities against cumulative  14 impacts and multiple burdens against individual  15 bodies and whole communities.  16 It is my understanding that this is the  17 first time in this and the underlying proceeding  18 that Board members have raised some of these very  19 important questions about environmental justice, yet  20 they are the same questions that have been asked by  21 the community for six years. And suddenly the  22 Siting Board is once again without a public member  23 to raise and represent environmental and  24 environmental justice concerns.</p>
<p style="text-align: right;">Page 262</p> <p>1 policy of EEA. She said the EJ policy does not  2 categorically prohibit the siting but requires a  3 more detailed look, but noted that, unlike certain  4 projects, a substation requires more limited EJ  5 review.  6 At the December 16th hearing, then-  7 Professor Shalanda Baker, now deputy director for  8 energy justice at the U.S. Department of Energy,  9 raised many questions about the scope and efficacy  10 of the Commonwealth's environmental justice policy.  11 Speaking as the Siting Board's public member for  12 environmental issues, Deputy Director Baker posited  13 that the four corners of the EJ policy don't give  14 space for the types of burdens that we have seen  15 echoed in the comments.  16 More specifically, she said that the  17 types of cumulative impacts that are permitted for  18 analysis under the policy are not necessarily  19 parallel to the types of cumulative impacts that  20 this project might contribute to, because the EJ  21 policy speaks primarily to emissions instead of  22 other industrial impacts in that community. And you  23 heard earlier from John Walkey about a whole range  24 of impacts that are concerning the community.</p>	<p style="text-align: right;">Page 264</p> <p>1 Yesterday Governor Baker delivered to  2 the legislature amendments to Senate Bill 9, the  3 climate road map bill. The governor's amendments  4 build on the existing environmental justice  5 protections in the bill by requiring the  6 incorporation of cumulative impact analyses in the  7 assessment and identification of certain categories  8 of permits and approvals. This would be  9 groundbreaking for Massachusetts but comes too late  10 for Chelsea and East Boston.  11 The Siting Board's current power to  12 protect East Boston and Chelsea residents from  13 cumulative burdens is limited, too limited. But why  14 is the Siting Board not trying to do so with the  15 tools that you have? The Siting Board has the power  16 to reopen the question of need for this  17 infrastructure. My colleagues, Josh Daniels and  18 Bryndis Woods, make clear your authority and your  19 rationale to do so. This is an environmental  20 justice issue. The East Boston and Chelsea  21 residents who have been able to participate in these  22 proceedings are acutely aware of the risks and what  23 they give up to host the substation in their  24 community. They have not heard enough about the</p>

<p style="text-align: right;">Page 265</p> <p>1 justification or the benefits to understand what 2 they gain. 3 The staff and membership of GreenRoots, 4 16 elected officials, a multilingual, multiethnic 5 set of community residents, and a host of advocacy 6 organizations are only asking that you answer a 7 simple question: Why site this substation in East 8 Boston and pile on an already-overburdened community 9 when current data may show no need to do so? 10 Change is in the air. I point to you 11 Governor Baker's amendments and President Biden's 12 recent environmental justice executive order. I 13 also point you to the Federal Energy Regulatory 14 Commission, which has just last month voted to 15 reopen a hearing on the Weymouth compressor station. 16 Enbridge has already sunk millions into constructing 17 the Weymouth facility and yet FERC is willing to 18 reassess. In the words of FERC Commissioner Allison 19 Clements, "I believe the commission should more 20 carefully consider how to address self-help and 21 safety concerns regarding these events and potential 22 air quality impacts on communities that are 23 disadvantaged in many ways and may be particularly 24 susceptible to COVID-19."</p>	<p style="text-align: right;">Page 267</p> <p>1 CHAIR THEOHARIDES: Thank you, Ms. Cahn. 2 Are there questions from the Board for Ms. Cahn? 3 Mr. Nelson? 4 MR. NELSON: Good afternoon, Ms. Cahn. 5 Just in trying to understand your recommendation for 6 delay: I'm just trying to reconcile -- you don't 7 want any proceedings to go forward until the state 8 of emergency has been lifted? Is that correct? 9 MS. CAHN: Yes, that is consistent with 10 the letter from the 16 local, State, and Federal 11 officials, asking that any resolution on this 12 proposal be in person, and we can't safely do that 13 now. 14 MR. NELSON: And why -- I'm just trying 15 to get a better understanding about why -- how is 16 that determined and how would you apply that? Would 17 you apply that only specifically to this case, or 18 would that apply to any hearing that was being 19 conducted by one of the EEA agencies? 20 MS. CAHN: I mean, I have not done an 21 analysis of every decision that is pending by EEA. 22 I think you have a very particular case here, where 23 you have a whole set of communities that have 24 been -- that are both marginalized and multiply</p>
<p style="text-align: right;">Page 266</p> <p>1 To quote FERC's new chair, Rich Glick, 2 via Twitter on January 19th, "Our NEPA and public 3 interest analyses must take environmental justice 4 into account and assess whether a project's adverse 5 impact on communities can be eliminated or 6 mitigated. In three years at FERC I've seen little 7 more than lip service paid to environmental justice. 8 That needs to change." 9 So too with the Siting Board. I join 10 GreenRoots, our public officials, and the residents 11 of East Boston and Chelsea in asking for the Siting 12 Board to make that change, to use the power it has 13 to reject the tentative decision, to reopen the 14 question of need, to prevent the siting of 15 unnecessary infrastructure from contributing to 16 environmental justice, and to postpone any further 17 public hearings or public decisionmaking until the 18 resolution of civil rights complaints and the civil 19 rights compliance review, and until the state of 20 emergency is lifted and public health allows 21 proceedings to occur safely in person. That is why 22 we are here. 23 Thank you for the opportunity to speak 24 today.</p>	<p style="text-align: right;">Page 268</p> <p>1 marginalized and also at the kind of -- the 2 greatest -- arguably the greatest hotbed of COVID-19 3 in the Commonwealth, or one of. 4 And so you have a set of communities 5 that have not had the opportunity to participate, 6 and attempting to participate now, remotely, during 7 a pandemic, is another form of either overburdening 8 or marginalization. 9 But I think you need to look at the two 10 things -- the question of delay in context of the 11 need to, A, reopen the question of need, but also 12 resolve the civil rights complaints. 13 And so I would say that the 14 recommendation is a holistic recommendation, to say 15 that there is work to be done before this decision 16 gets made, and so delaying until resolution of the 17 civil rights complaints and the compliance review 18 and resolution of the question of need would, one 19 would hope, allow for the final decision on this 20 project to happen in person. 21 MR. NELSON: And just in terms of being 22 in person: Certainly -- well, let me ask it this 23 way: Do you think there are benefits to having a 24 virtual platform in terms of access for some</p>

<p style="text-align: right;">Page 269</p> <p>1 residents?</p> <p>2 MS. CAHN: Yes, I think we're learning</p> <p>3 many things about kind of the opportunities that a</p> <p>4 virtual platform provides. But I think we also know</p> <p>5 that both the digital divide and the pandemic</p> <p>6 conditions make it very difficult for residents of</p> <p>7 East Boston and Chelsea to participate today.</p> <p>8 So, you know -- and in conversations</p> <p>9 consistently with EEA officials over the course of</p> <p>10 the pandemic, we know that you all are learning</p> <p>11 things in real time. But what is happening today</p> <p>12 does not replace the opportunity to do this in</p> <p>13 person.</p> <p>14 And I would say, on that question, both</p> <p>15 John Walkey and Rose Ann Bongiovanni could probably</p> <p>16 speak better to that than I in terms of the</p> <p>17 importance of being in person and the importance of</p> <p>18 a delay.</p> <p>19 MR. NELSON: Thank you.</p> <p>20 CHAIR THEOHARIDES: Other questions?</p> <p>21 Thank you, Ms. Fraser.</p> <p>22 MS. FRASER: Madam Chair, I don't have a</p> <p>23 question for CLF. But I wondered if I could follow</p> <p>24 up with staff on the issue of language access that</p>	<p style="text-align: right;">Page 271</p> <p>1 Portuguese, because the population on the Chelsea</p> <p>2 side of the creek is more Portuguese-speaking.</p> <p>3 I will note, we did not receive any</p> <p>4 requests for interpretation during the evidentiary</p> <p>5 hearings, so therefore we did not provide any</p> <p>6 interpretation during the evidentiary hearings. We</p> <p>7 did receive a request for interpretation for the</p> <p>8 Board meeting, as was indicated by Ms. Cahn.</p> <p>9 We received the request. The</p> <p>10 then-presiding officer responded as to what type of</p> <p>11 interpretation we provide, and we were told at the</p> <p>12 Board meeting that that was inadequate. We did</p> <p>13 provide one-way translation, not both-way</p> <p>14 interpretation, in that proceeding.</p> <p>15 In the project-change proceeding we</p> <p>16 provided interpretation services for all of our</p> <p>17 public proceedings, so that has included the public</p> <p>18 comment hearing -- and this is simultaneous</p> <p>19 interpretation -- for the evidentiary hearings and</p> <p>20 the Board meeting, obviously.</p> <p>21 I will note that we did initially say in</p> <p>22 the evidentiary hearings, when we first asked,</p> <p>23 during the first day of hearings -- we did say that</p> <p>24 we would provide interpretation in another room. We</p>
<p style="text-align: right;">Page 270</p> <p>1 was raised --</p> <p>2 CHAIR THEOHARIDES: Yes, please do.</p> <p>3 MS. FRASER: -- by CLF.</p> <p>4 For the presiding officer, Ms. Evans, I</p> <p>5 just wanted to sort of follow up with you on the</p> <p>6 language-access issue. Earlier, you know, the first</p> <p>7 night of the hearing you described what the Board</p> <p>8 has done to provide language access in the</p> <p>9 underlying proceeding and in this project change</p> <p>10 proceeding. Can you confirm how the Board met its</p> <p>11 obligations to provide language access in both</p> <p>12 proceedings?</p> <p>13 MS. EVANS: Thank you for the question.</p> <p>14 There's been a lot said about what we did and did</p> <p>15 not do. And so I appreciate the opportunity to</p> <p>16 again confirm what we did do in both of the</p> <p>17 proceedings.</p> <p>18 So in the original proceedings -- some</p> <p>19 people have said we provided no language access at</p> <p>20 all, and I don't think that is true. The Board</p> <p>21 provided notice to be published in multiple</p> <p>22 languages in the original proceeding, and the Board</p> <p>23 provided interpreters at the public comment hearing,</p> <p>24 in the original proceeding, both in Spanish and in</p>	<p style="text-align: right;">Page 272</p> <p>1 did not end up doing that. We were -- we had never</p> <p>2 provided interpretation for an evidentiary hearing</p> <p>3 before, and we were working our way through the</p> <p>4 technicalities of that. We did end up providing the</p> <p>5 interpretation in the hearing room. As a matter of</p> <p>6 fact, we delayed the second and third day of</p> <p>7 hearings in order to access that -- to provide the</p> <p>8 services for that interpretation during the</p> <p>9 evidentiary hearings.</p> <p>10 And then obviously for this hearing or</p> <p>11 this meeting itself, I will note that we've</p> <p>12 translated documents in this proceeding. We've</p> <p>13 translated the notices, the tentative decision, the</p> <p>14 amendment sheet, and communications from me. I've</p> <p>15 had those translated also during this proceeding.</p> <p>16 I will note that we also provided the</p> <p>17 transcript of the Board meeting, which is not our</p> <p>18 normal habit -- we did provide the transcript of the</p> <p>19 Board meeting and had that translated into Spanish</p> <p>20 and posted online for anyone who was not able to</p> <p>21 attend December 16th. We will do so for these</p> <p>22 transcripts, also.</p> <p>23 And finally, I will note that we will</p> <p>24 provide the final decision, should the Board vote on</p>

<p style="text-align: right;">Page 273</p> <p>1 a final decision, in both English and Spanish, and  2 those will be posted to our website.  3 So these are the activities that we  4 provided for both proceedings. I believe we've met  5 our language obligations here to provide access.  6 But I just wanted to clarify what we actually did  7 and did not do in the two proceedings. Thank you.  8 MS. FRASER: Thank you, Ms. Evans.  9 Thank you, Madam Chair.  10 CHAIR THEOHARIDES: Thank you,  11 Ms. Fraser. Mr. Greene, I believe we are scheduled  12 for another break.  13 MR. GREENE: We are. I just notice that  14 we have one intervenor from the underlying  15 proceeding that we have overlooked, and that's Mr.  16 Silvestro, which I believe is associated with  17 Channel Fish. So if we could take his comment and  18 then maybe go to the break.  19 CHAIR THEOHARIDES: Sure. Do you need  20 to bring him into the Zoom panel?  21 MR. GREENE: He's on his way.  22 Mr. Silvestro, are you with us?  23 I may have scared him.  24 CHAIR THEOHARIDES: I see you down at</p>	<p style="text-align: right;">Page 275</p> <p>1 say that there was interpretation at that hearing.  2 And just to be absolutely clear: That was not  3 interpretation. It was one way, for the benefit of  4 the Board members only. We don't consider that  5 interpretation. It's sort of illustrative of how  6 the Board is learning in real time what language  7 access actually means. Thank you.  8 CHAIR THEOHARIDES: Okay. Given that  9 Ms. Cahn has left, I believe we wanted to reserve  10 some time for additional questions for Eversource,  11 following up on last meeting's discussion.  12 I guess one that I would start with,  13 just to kick things off and refresh our memories  14 after the last meeting: Mr. Rosenzweig, could you  15 talk a little bit about the company's forecast and  16 how that was developed and what went into it in  17 terms of determining need?  18 MR. ROSENZWEIG: I sure can. Before I  19 do so, I did want to thank the Board once again for  20 all the time and effort and consideration, resources  21 that it has put into making sure that this is an  22 open and transparent process and allowing for the  23 participation of the community. On behalf of  24 Eversource, we're very appreciative of the Board</p>
<p style="text-align: right;">Page 274</p> <p>1 the bottom of my screen, Mr. Silvestro. I think if  2 you unmute.  3 Mr. Greene, perhaps we should take a  4 break, and if he is available in ten minutes, we can  5 take his comments.  6 MR. GREENE: Sounds good.  7 CHAIR THEOHARIDES: If everyone could  8 reconvene at 4:00 o'clock. Thank you.  9 (Recess taken.)  10 CHAIR THEOHARIDES: We can go back on  11 the record. So understanding that the other  12 intervenor is not present at this point, I will just  13 ask the Board for any last questions for Ms. Cahn.  14 Mr. Nelson?  15 MR. NELSON: Mr. Daniels has his hand  16 raised. It might be that there's a procedural  17 matter.  18 MR. DANIELS: Yes, I just wanted to  19 report that Ms. Cahn had to step away at 4:00  20 o'clock. And I also wanted to report on her  21 behalf -- we spoke offline during the break. One  22 ten-second point of clarification regarding  23 Presiding Officer Foster Evans's description of the  24 November 30th, 2017 hearing. I believe we heard her</p>	<p style="text-align: right;">Page 276</p> <p>1 scheduling this meeting and taking up the tentative  2 decision. So I just wanted to state that for the  3 record.  4 With regard to the original proceeding,  5 there were two different needs that the company  6 presented to the Siting Board. It was a regional  7 need for a transmission line, if you will -- or two  8 transmission lines, if you will -- that would go  9 between the Mystic Station and Chelsea Station and  10 ultimately from Chelsea Station to the East Eagle  11 site. And so both of these lines would meet at East  12 Eagle and, in a sense, create a loop. That was a  13 regional need. That was justified based on ISO  14 regional forecasts, where there was a risk under  15 contingency situations and peak load conditions,  16 where there could be over 300 megawatts that could  17 be lost under certain contingencies. So that dealt  18 with the transmission line, and that was approved by  19 the Siting Board.  20 There was also a more localized need in  21 the East Boston area that's separate and apart from  22 the regional need that I previously described. And  23 that was really a result of essentially the East  24 Boston area of the company's service territory is an</p>

<p style="text-align: right;">Page 277</p> <p>1 island, from a transmission perspective. There is  2 no transmission serving that area.  3       Given load growth in that pocket, there  4 wasn't enough capacity into that area of the  5 company's service territory from existing resources,  6 even after those transmission lines are built, to be  7 able to serve that load under peak-load conditions  8 and given existing transmission capacity that really  9 existed only from the Chelsea substation, and there  10 were limitations in being able to build out Chelsea  11 to a greater level.  12       So the load pocket that we're dealing  13 with is in East Boston. There's no transmission  14 supply there. And loads in East Boston continue to  15 be forecast to exceed the contingency levels at  16 which an outage could occur in that area of the  17 company's service territory. It's the company's  18 obligation under its planning standards to build  19 facilities such as a substation when there are loads  20 that are forecast to occur and there is inadequate  21 resources in place to serve those loads under  22 contingency conditions.  23       So that, in short, is the situation  24 here.</p>	<p style="text-align: right;">Page 279</p> <p>1 number. There may be more of those types of days  2 going forward in time if climate change does result  3 or continue to result in increased temperatures  4 during the summer period.  5       CHAIR THEOHARIDES: But at that point,  6 that's not taking into any sort of the forward load  7 plans of the company or companies generally when  8 they're doing this kind of planning?  9       MR. ROSENZWEIG: Yeah, that's fair to  10 say. The 90/10 weather conditions are based on  11 historical levels of weather, as opposed to  12 projected levels of weather. If we were to look at  13 projected levels, you would probably see higher  14 temperatures or at least more days at which that  15 90/10 temperature threshold would be reached.  16       CHAIR THEOHARIDES: Can you talk about  17 the lifespan of a project like this, how long it  18 would be built for, expected to operate for, and  19 also where you have substations like this in the  20 Commonwealth? You can do either one first. I  21 realize they're fairly unrelated.  22       MR. ROSENZWEIG: Sure. Typically the  23 utility planning standard is about -- is a 40-year  24 life of the equipment. Often, with proper</p>
<p style="text-align: right;">Page 278</p> <p>1       CHAIR THEOHARIDES: And just as a quick  2 followup to that: I was looking back at my notes.  3 It looks like the peak load is looking at a hot,  4 humid summer day.  5       MR. ROSENZWEIG: It's called the 90/10  6 forecast, which is the weather conditions that would  7 occur essentially one out of ten years. Established  8 planning standards really say that because of the  9 importance of a reliable supply of electricity, you  10 look at stress conditions -- likely conditions, but  11 those that are likely to occur at least once in ten  12 years for weather at the same time as there might be  13 a contingency on the system with regard to  14 transmission resources or generators that stress the  15 system to a point where load cannot be met with  16 existing resources.  17       CHAIR THEOHARIDES: And is this a model  18 that includes increased temperatures as a result of  19 climate change, or is this based on today's  20 standards of 90 degree days?  21       MR. ROSENZWEIG: That's a good question.  22 It's really based on existing temperatures. There  23 may be more of these type -- let's say the 90/10  24 peak load temperature was 90 degrees, just to use a</p>	<p style="text-align: right;">Page 280</p> <p>1 maintenance and care, facilities can operate longer  2 than 40 years. But that is the standard. You plan  3 out and you look at the operating life of the  4 equipment over a 40-year period, and it would be the  5 company's expectation that this equipment be able to  6 operate at an efficient level for 40 years.  7       With regard to your second question:  8 The company has substations in many, many, virtually  9 all communities in the Commonwealth, whether they're  10 transmission substations or distribution  11 substations. Substations are really built under  12 three primary criteria: when there's a need, and  13 that is you want to build a substation close to  14 where the load pocket is or where the need is. You  15 want to be able to have available transmission in  16 proximity to that location so that you can bring in  17 capacity to serve that area. And you need to have  18 suitable land available in order to build the  19 substation, which ideally would be on the order of  20 30 or 40 thousand square feet. Here we're in an  21 urban area and it's been incumbent on the company to  22 reduce the size of its substation as much as  23 possible so that it can sit within the very limited  24 areas that were available within the East Boston</p>

<p style="text-align: right;">Page 281</p> <p>1 area to site this proposed facility.</p> <p>2 CHAIR THEOHARIDES: So while they're</p> <p>3 widespread, there can be different sort of design</p> <p>4 plans for the type of substation that goes into a</p> <p>5 type of location?</p> <p>6 MR. ROSENZWEIG: That's fair to say.</p> <p>7 That depends on the number of transformers that are</p> <p>8 at the location and other equipment. Some</p> <p>9 substations, particularly the transmission level,</p> <p>10 require more -- more equipment for control houses or</p> <p>11 shunt reactors or things to address other electric</p> <p>12 characteristics on the system. And it's really</p> <p>13 location-specific as to whether those types of</p> <p>14 transmission facilities are needed within a</p> <p>15 substation.</p> <p>16 But here that is really not the case.</p> <p>17 This substation would be a two-transformer</p> <p>18 substation that would take power in at 115 kV, which</p> <p>19 is transmission-level voltage, and then transform it</p> <p>20 down to a lower voltage, essentially 14 kV, from</p> <p>21 which that power would then exit the station with</p> <p>22 distribution cables to serve load at a distribution</p> <p>23 level within the East Boston area.</p> <p>24 CHAIR THEOHARIDES: Okay. And I will</p>	<p style="text-align: right;">Page 283</p> <p>1 sources. And that might occur both on the</p> <p>2 commercial as well as the residential area of our</p> <p>3 customers sector.</p> <p>4 There's also electrification you'll get</p> <p>5 from EVs, electric vehicles, and part of the climate</p> <p>6 change plan that you were responsible for</p> <p>7 developing, which is out for public comment, calls</p> <p>8 for really a very dramatic increase in electric</p> <p>9 vehicles over the next decade, the next 15 years,</p> <p>10 with a 2035 essentially prohibition on gasoline-</p> <p>11 fired -- gasoline-powered passenger vehicles as of</p> <p>12 2035, which will require a lot of infrastructure to</p> <p>13 be built into the Massachusetts -- maybe wherever</p> <p>14 there's a gas station or wherever there are</p> <p>15 facilities that would normally be providing fuel for</p> <p>16 passenger vehicles, to have more access to charging</p> <p>17 facilities so that they can, you know, conduct their</p> <p>18 trips into work or to whatever purpose they're</p> <p>19 driving around.</p> <p>20 It can't just be in the home, but there</p> <p>21 will be actually electric charging in the homes, and</p> <p>22 there will also need to be a large increase in the</p> <p>23 electric infrastructure within sort of the roadways</p> <p>24 of Massachusetts for charging facilities for those</p>
<p style="text-align: right;">Page 282</p> <p>1 ask another question and then I'll turn it over to</p> <p>2 others. So, you know, we just completed a 2050 road</p> <p>3 map looking at electrification as a state. And my</p> <p>4 understanding -- you know, my technical folks may</p> <p>5 say we do have it down at a geographical scale in</p> <p>6 terms of where the load growth is. But are you as a</p> <p>7 company expecting -- what are you expecting the load</p> <p>8 growth in the electrical sector to look like</p> <p>9 geographically, if you have a sense of that at this</p> <p>10 point? Is it very variable? Is it consistent</p> <p>11 across the state?</p> <p>12 I know there will be areas that have</p> <p>13 more EVs at first. There will be heavy</p> <p>14 electrification of the building sector. What do you</p> <p>15 think we're looking at in terms of sort of the</p> <p>16 geographical change in -- or the geographical</p> <p>17 difference in load growth?</p> <p>18 MR. ROSENZWEIG: That's a good question,</p> <p>19 and I think electrification will focus on two</p> <p>20 primary areas. One is, as a matter of sort of</p> <p>21 reducing our reliance on fossil fuels, will be</p> <p>22 making changes such that a lot of the space heating</p> <p>23 and water heating will transform from, whether it's</p> <p>24 oil or natural gas, to electrification -- electric</p>	<p style="text-align: right;">Page 284</p> <p>1 electric vehicles.</p> <p>2 So it will be ubiquitous. I think the</p> <p>3 company's forecasts will become more sophisticated</p> <p>4 in that regard over time. We're now just seeing the</p> <p>5 first sort of iteration of company forecasts that</p> <p>6 have either at the ISO level or the company level</p> <p>7 estimates for electrification. And for the heating</p> <p>8 portion, that effect may be more profound during the</p> <p>9 winter peak, but there will be some effects on the</p> <p>10 summer peak as well. And certainly with electric</p> <p>11 vehicles, you'll see an effect year round. So that</p> <p>12 would serve to increase load by some percentage.</p> <p>13 Maybe it's only a percent to start, but I think it</p> <p>14 would increase over time. At least that's what the</p> <p>15 company's early estimates would show.</p> <p>16 CHAIR THEOHARIDES: I'll see if others</p> <p>17 have questions at this point. I have a few more.</p> <p>18 Mr. Woodcock and Mr. Nelson?</p> <p>19 MR. WOODCOCK: Thank you. I did want to</p> <p>20 ask you, Mr. Rosenzweig, about the parcel exchange,</p> <p>21 and reading what the final order indicated, that --</p> <p>22 I'm going to read from the order. It directs the</p> <p>23 company to enter into discussions with the City of</p> <p>24 Boston, focusing on the ability of the company to</p>

<p style="text-align: right;">Page 285</p> <p>1 relocate the East Eagle substation on the City  2 parcel and to acquire an easement across the City  3 parcel if necessary for the installation of new  4 lines and to provide an update to the Board on the  5 status of those discussions within six months of the  6 final decision and prior to the commencement of any  7 construction on the City parcel.</p> <p>8 To be clear: Did you provide an update  9 to the Board about the acquisition of this site?</p> <p>10 MR. NELSON: Right before you answer  11 that, David: I think one of the Board members has  12 to leave, and I think we have to note that for the  13 record. I just want to take that opportunity for  14 the record before you get going.</p> <p>15 CHAIR THEOHARIDES: Mr. Cosco will be  16 leaving us and will return.</p> <p>17 MR. ROSENZWEIG: There is a discussion  18 of this in the tentative decision, but just to  19 summarize: At the Board's behest we interpreted the  20 Siting Board's decision in the original proceeding  21 and during its deliberations to approve the site for  22 the proposed substation on the eastern parcel. But  23 there was interest, because of concerns of certain  24 parties, that perhaps a better location could be</p>	<p style="text-align: right;">Page 287</p> <p>1 MR. WOODCOCK: Okay. So your  2 interpretation was that the final decision could  3 ultimately lead to construction at this site without  4 further action of the Board?</p> <p>5 MR. ROSENZWEIG: The further action did  6 require a compliance condition with the company for  7 it to report on its success of being able to acquire  8 the site to the west. And once it acquired that  9 site to the west, because of the City's  10 requirements, it had to give up the location to the  11 east and proceed, if it was going to proceed with  12 the substation -- which it did because the  13 facility's so urgently needed -- by designing a  14 substation at that location that would have the same  15 equipment and be able to minimize impacts in a way  16 that was favorable to the community.</p> <p>17 MR. WOODCOCK: Do you see a pathway to  18 siting this facility on the original parcel, on the  19 original area within the parcel, on the eastern  20 side? Is there a route that that could actually be  21 done at this point?</p> <p>22 MR. ROSENZWEIG: I wouldn't foreclose  23 that, but the City owns that now and has its own  24 plans for that location. There's a police station</p>
<p style="text-align: right;">Page 286</p> <p>1 found elsewhere on the same parcel and to examine  2 whether that would be possible, to move the  3 substation westerly and essentially to create a  4 substation that produced the same value to customers  5 in terms of meeting the need but do so in a manner  6 that would be of equal reliability but lower impact  7 and particularly lower impact to the most impacted  8 customer at that time or property owner at that  9 time, which was Channel Fish.</p> <p>10 The company did that. It engaged in  11 discussions with the City of Boston. The City of  12 Boston ultimately issued a Chapter 30B property bid,  13 open to the public, open to all comers. And it was  14 important from the City's perspective that it got  15 back any land it was giving up as part of the  16 exchange. So there was a land swap of the eastern  17 parcel that the company had for the western parcel,  18 which ultimately became the subject of this project  19 change proceeding.</p> <p>20 We did provide an update in that regard  21 to the Siting Board within six months of the  22 decision, as required by Condition A in the original  23 Siting Board decision. And from there, this project  24 change proceeding developed.</p>	<p style="text-align: right;">Page 288</p> <p>1 going on the western side. The DPW has plans for  2 the rest of it, rest of the site. I don't think  3 that's what the City's anticipating.</p> <p>4 And from our perspective, what we put  5 forth before the Siting Board we think is a facility  6 that in fact has many improvements over the one on  7 the eastern parcel. So we don't think that would be  8 a wise decision by the Siting Board, nor is it  9 consistent with what at least the Siting Board back  10 in 2017 was anticipating when it proposed Condition  11 A.</p> <p>12 MR. WOODCOCK: One last question: The  13 comments about engagements with the community on  14 esthetics of the site, can you respond to that  15 critique, and would you be open to further  16 conditions of engagement during periods that are  17 more accommodating to the public?</p> <p>18 MR. ROSENZWEIG: Certainly the company  19 is flexible on that, and they want the substation to  20 be the subject of community input and to be able to  21 incorporate, you know, appropriate and reasonable  22 suggestions made by the public that will reduce the  23 concerns about the substation location.</p> <p>24 There is already a condition built into</p>



<p style="text-align: right;">Page 289</p> <p>1 the original Siting Board's order that talks about  2 an outreach process and a committee, if you will, to  3 be developed as well as public outreach, to get as  4 much input as possible on the design of the  5 substation and to approve its esthetics or to do so  6 in a manner that's more palatable by the community.  7 And the company is taking that obligation very  8 seriously and will do so with approval of the  9 facility here.</p> <p>10 MR. WOODCOCK: Thank you.</p> <p>11 CHAIR THEOHARIDES: Chair Nelson?</p> <p>12 MR. NELSON: Mr. Rosenzweig, let's stay  13 on the community engagement for a moment. Can you  14 describe to me how the community has received the  15 substation?</p> <p>16 MR. ROSENZWEIG: Well, we recognize the  17 degree of opposition in the community. It's not  18 universal, but there is a significant portion of the  19 community that's been heard loud and clear about  20 their opposition to the community -- to the station,  21 excuse me.</p> <p>22 The company did hold a first session  23 with the community in an attempt to get input, in  24 compliance with the condition that the Siting Board</p>	<p style="text-align: right;">Page 291</p> <p>1 wrong way. We recognize that, and we sort of  2 embrace the opportunity to work with the community  3 and have the chance to address their concerns.</p> <p>4 MR. NELSON: Did the company have any  5 community liaisons prior to the start of this  6 project reach out to the community?</p> <p>7 MR. ROSENZWEIG: Yes, we did. Early on,  8 even before the Siting Board petition was filed in  9 2014, there were a couple of dozen siting --  10 community outreach meetings where we presented the  11 proposal to the public and made them aware of what  12 we were intending to do and why we were doing it and  13 to solicit their input. And several of those had,  14 you know, language-access tools that were provided  15 to the public to allow them to participate.</p> <p>16 So we weren't in a pandemic process  17 there. They were more front-facing types of  18 community meetings. But we had a considerable  19 amount of that, which is reflected in the original  20 Siting Board decision.</p> <p>21 MR. NELSON: Yeah, and I would say that  22 there have been subsequent meetings held by the City  23 of Boston and others. Are you aware of those  24 meetings that have occurred, in between the original</p>
<p style="text-align: right;">Page 290</p> <p>1 imposed, and much of that input was really at the  2 need for the facility and the location for the  3 facility, and the conversation, if you will, got  4 sidetracked, if you will, from the actual focus of  5 what we intended the meeting to be on, which was  6 input on the specifics of the esthetics and the  7 fencing and the surrounding perimeter, to come up  8 with a design that would be more attractive to the  9 community.</p> <p>10 So we did attempt that. We would  11 continue to attempt it. But at the first instance  12 the opposition to the project in general dominated  13 the conversation.</p> <p>14 MR. NELSON: Have you seen this amount  15 of community kind of opposition for a project change  16 before in a Siting Board case, to this level?</p> <p>17 MR. ROSENZWEIG: It's a matter of  18 degree. I think many Siting Board cases, and even  19 project change cases, have opposition. This one has  20 had considerable opposition. I wouldn't diminish  21 that. But opposition is, I think I said in my  22 opening remark, is more the rule than the exception  23 in Siting Board cases, and that's just a factor of  24 public involvement. And it's not to be taken the</p>	<p style="text-align: right;">Page 292</p> <p>1 decision and this Board meeting?</p> <p>2 MR. ROSENZWEIG: I am, and we've  3 undergone a city council hearing conducted by City  4 Councilor Lydia Edwards, in the last year. Those  5 were on Zoom, and there was wide participation on  6 that. We went through a very detailed Conservation  7 Commission review over the past year in the City of  8 Boston. It was, again, broad participation in that  9 process, and ultimately we were able to get a  10 favorable order of conditions from the Conservation  11 Commission in Boston.</p> <p>12 MR. NELSON: Okay. And would you say  13 that that -- has the company done what it needs to  14 do to comply with any sort of language-access or  15 environmental justice standards?</p> <p>16 MR. ROSENZWEIG: Definitely. We've  17 complied with all the Siting Board's directives that  18 have been posed to address those types of issues  19 from the very beginning. And when we do our own  20 outreach, we have those same types of objectives and  21 same types of processes in place, to make sure that  22 our materials are translated and that we engage the  23 community in a way that allows for meaningful  24 participation by the public.</p>

<p style="text-align: right;">Page 293</p> <p>1 MR. NELSON: Do you have any member of  2 staff for your client who is dedicated to this,  3 dedicated to environmental justice issues?  4 MR. ROSENZWEIG: We have -- for each  5 project there are community liaisons -- and not just  6 project manager, but specialists in the field that  7 are responsible for outreach and coordinating  8 activities and being a face in the community and  9 going door to door at times. That is a meaningful  10 part of Eversource's approach to ensuring that its  11 projects are not sort of taken as a surprise to the  12 community and that they are receptive to the input  13 they get from the public.  14 MR. NELSON: One criticism that I heard  15 during a meeting with Lydia Edwards was that none of  16 the community liaisons spoke Spanish. That was what  17 some of the community had indicated. I wondered if  18 you could respond to that and let me know whether or  19 not you thought that that engagement was done or not  20 done.  21 MR. ROSENZWEIG: When we've had  22 public-facing meetings, that's not been the case.  23 We've had interpretation or translation services.  24 If you're talking about some of the</p>	<p style="text-align: right;">Page 295</p> <p>1 the views from neighboring properties, whether it's  2 the urban wild or from Condor Street. There's some  3 terrain differences and topography there that makes  4 it conducive to a fence like that.  5 Also, there were concerns raised by  6 GreenRoots and others during the proceeding about  7 instances where there was some scaling of fences  8 around utility facilities, and this would make the  9 facility safer from that perspective.  10 But to your point: A 25-foot wall no  11 doubt would provide some level of additional  12 protection for some of the concerns that have been  13 raised with regard to, you know, flood waters and  14 sea-level rise and the site becoming inundated with  15 waters, be it as a matter of a nor'easter or climate  16 change.  17 MR. NELSON: And do you recall the  18 conversation we had at the last meeting -- it wasn't  19 with you, but it was with staff -- around  20 foundations and footings?  21 MR. ROSENZWEIG: Yes, yes.  22 MR. NELSON: Okay. Do you have any  23 reactions around putting foundations and footings at  24 this site?</p>
<p style="text-align: right;">Page 294</p> <p>1 door-to-door activity, I cannot speak to whether  2 those individuals have proficiency in Portuguese and  3 Arabic and Spanish. But the legal requirements that  4 we must meet, clearly we do so in a way that meets  5 the requirements of the Siting Board, when we also  6 comply with the MEPA policies that are applicable to  7 environmental justice communities.  8 You know, I understand there's folks  9 that want more, but we think we've done not just the  10 minimum but even more than is required by those  11 policies.  12 MR. NELSON: If you can recall your  13 opening statement that you made at the last meeting.  14 You had mentioned -- we were on the topic of safety,  15 and I think you had mentioned that the tentative  16 decision included an additional wall height  17 requirement. Do you recall that?  18 MR. ROSENZWEIG: I do.  19 MR. NELSON: A question, then. I know  20 this might be a base-level question. But does that  21 wall provide any protection against flooding, or is  22 that mostly an esthetic device?  23 MR. ROSENZWEIG: Its primary purpose was  24 esthetic and safety -- esthetics to sort of shield</p>	<p style="text-align: right;">Page 296</p> <p>1 MR. ROSENZWEIG: I do. We think it's  2 unnecessary, because of the conservatism that the  3 company's design already incorporates with regard to  4 being at a sufficient-enough height to address over  5 a very long period of time -- at least through 2070,  6 which is 50 years, if not through the end of the  7 century, 80 years -- the likely levels of the most  8 aggressive estimates of sea-level rise, using the  9 BRAG report, for instance. And those types of  10 foundations and footings come at a cost. It comes  11 at a cost that would be paid by customers. And it's  12 our job to construct these facilities not only so  13 that they're reliable but that they're done in a  14 manner that's reasonable and fair to the consumers  15 that will pay for those facilities.  16 And there is such an extended time frame  17 between now and the most aggressive types of  18 assumptions there might be with regard to sea-level  19 rise that might cause some susceptibility to the  20 site being compromised that there would be  21 sufficient time -- 20, 30, 40 years from now -- to  22 address that.  23 One of the options the company is  24 looking at is portable flood barriers, which are</p>

<p style="text-align: right;">Page 297</p> <p>1 very easy to obtain and can be set up on a day or  2 two's notice. For instance, if you have reason to  3 believe there's an impending storm that's coming or  4 sea-level rise is escalating and it can be put on  5 the site to provide an additional foot, two feet, or  6 even more of protection for rising sea levels or  7 storm waters.</p> <p>8 The company's interest is to have a  9 reliable facility and to protect its investment. It  10 is the same interest in ensuring that what it does  11 here makes sense. And given the design as it's  12 presently proposed, at a 23-foot design flood  13 elevation, there's more than ample, shall I say,  14 leeway between the most aggressive estimates of  15 sea-level rise and floodwaters to provide a  16 significant margin and an even more significant  17 amount of time before those types of measures might  18 be required.</p> <p>19 So we don't think multi-million-dollar  20 types of investments now make sense for customers  21 and would be ultimately needed, but if they were  22 needed, there is ample time in the future to  23 incorporate them in a reasonable manner.</p> <p>24 MR. NELSON: And the foundations and</p>	<p style="text-align: right;">Page 299</p> <p>1 concern, you know, here is we're already dealing  2 with a site that's a limited square footage; right?  3 The urban environment, it had to be limited in  4 square footage. So even typical things like flood  5 barriers, I just don't have a knowledge at this  6 time, and I don't think we do -- we're not  7 engineers -- to kind of assess whether or not that  8 would be able to be put on site safely.</p> <p>9 Dr. Marcos Luna gave some fairly  10 compelling testimony around the different levels of  11 sea rise and how to account for that. Did you hear  12 his testimony earlier?</p> <p>13 MR. ROSENZWEIG: I did.</p> <p>14 MR. NELSON: And could you at least  15 respond a little bit about maybe some of the  16 concerns you may have or some of the places where  17 you may agree with what he had stated?</p> <p>18 MR. ROSENZWEIG: Well, I think the  19 company has shared sort of his objectives by  20 designing a facility that will be susceptible to  21 avoiding the effects, the adverse effects, of  22 sea-level rise or for storms. That was a very  23 primary and fundamental principle in the design of  24 the station.</p>
<p style="text-align: right;">Page 298</p> <p>1 footing would allow add-on over time. That's not a  2 day one solution. Correct?</p> <p>3 MR. ROSENZWEIG: It's to build that into  4 the design, but even the foundation and footings  5 would require somewhat of a reengineering of the  6 site and maybe even repermitting of the site,  7 because of the additional equipment, where they  8 would be located.</p> <p>9 My understanding is it would not be an  10 inexpensive investment, even just for the foundation  11 and footings. So it's something we don't think is  12 needed. The Siting Board has -- or the staff has  13 proposed a condition as part of the tentative  14 decision here for an emergent response plan to  15 include measures that the company would implement,  16 including flooding, and to file that within 30 days  17 of the commencement of construction. That's  18 something we could address in more detail if the  19 Siting Board approves the project in compliance with  20 that condition, what types of measures would make  21 sense, at what cost, to include in our emergency  22 response plan to minimize the risk of flooding and  23 sea-level rise to the site.</p> <p>24 MR. NELSON: Yeah, and I think my</p>	<p style="text-align: right;">Page 300</p> <p>1 Some of the numbers you see in the  2 record is even with a 500-year storm and three feet  3 of sea-level rise and one foot of freeboard, which  4 is a sort of another margin of safety, you'd only  5 design the elevation of this station at about 19.71  6 feet.</p> <p>7 We have proposed to grade and level the  8 site at 23 feet. And then there's another foot or  9 two before you get to the height of the equipment,  10 because they'll build one to two feet above the  11 foundation level.</p> <p>12 So there's at least four or five feet  13 above the levels that would give rise to a concern  14 of the beginning of an issue where this equipment  15 might be subject to some risk from sea-level rise or  16 floods. And the number we used for three feet with  17 a foot of freeboard compares very favorably with the  18 most aggressive assumptions in the BRAG report, and  19 is far more aggressive than any industry or  20 permitting agency has required heretofore. It was  21 just reviewed as part of our Conservation Commission  22 approval, where the Boston Water and Sewer  23 Commission, in their input to the Conservation  24 Commission, required us to look at a variety of very</p>

<p style="text-align: right;">Page 301</p> <p>1 complex seminars in terms of storms and sea-level  2 rise and to determine whether any of those  3 combinations of events would jeopardize the  4 equipment at the site, and we were able to show the  5 Conservation Commission that our height at 23 feet,  6 at the minimum, where the foundations would be, is  7 sufficiently high to avoid through the next 70, 80,  8 90 years, whatever it might be through the end of  9 the century, the effects of foreseeable climate  10 change and storms.  11 So we think we've done everything  12 possible to protect this station. It's an  13 investment to us. It's important for the  14 reliability of the facility. And there is ample  15 time to react in other circumstances should they  16 arise for other measures that may be appropriate to  17 protect it further, if that seems to be what the  18 reasonable thing to do would be 50 years from now,  19 30 years from now, whatever, as the equipment gets  20 to the end of its design life.  21 CHAIR THEOHARIDES: Mr. Nelson, can I  22 just do one followup here?  23 MR. NELSON: Absolutely.  24 CHAIR THEOHARIDES: So, you know, the</p>	<p style="text-align: right;">Page 303</p> <p>1 five or ten years from now, or even 20 or 30 years  2 from now, for additional measures to protect its  3 equipment -- because, again, it has every interest  4 in protecting what might be a 60-odd-million-dollar  5 investment, to ensure that it is not damaged or that  6 it does not impede providing reliable service to  7 customers.  8 So we do have the benefit of time to see  9 if science and climate change changes to a degree  10 that's beyond what's anticipated in the BRAG report  11 and then incorporate those measures, if needed and  12 if appropriate, if a very cost-effective way down  13 the road.  14 CHAIR THEOHARIDES: Sorry, Chair Nelson.  15 MR. NELSON: I'm going to move on to  16 distribution-level voltage, unless anyone else has  17 anything else on flooding or the floodplain.  18 CHAIR THEOHARIDES: Then I do have one  19 more. And I was just wondering: Did you, when you  20 went before the Boston Conservation Commission, was  21 there a new wetlands ordinance in effect and is that  22 why you used the BRAG report? Or that's practice on  23 your part? I was just curious about that process.  24 MR. ROSENZWEIG: Good question. A</p>
<p style="text-align: right;">Page 302</p> <p>1 science continues to change on the level of  2 sea-level rise that we might expect, including  3 recently with some news on the rate of ice sheets  4 continuing to accelerate. And so I'm just  5 wondering, you know, if the sea-level rise that the  6 BRAG report consolidated back in 20- -- you know, I  7 think they started in 2014 and published in 2016 and  8 the State's done similar work and is doing similar  9 updates right now --  10 If that changes in the next ten years or  11 so, what does that do -- what does that do from a  12 sort of management standpoint in terms of how  13 quickly can you adjust to something like that?  14 Because I think that's not an emergency; that's more  15 of an, all right, how do we adapt in real time to  16 changing science and data.  17 MR. ROSENZWEIG: Well, I do think that's  18 something that the company could be directed to look  19 at and to watch and to take into account and could  20 be part of their emergency response plan, that they  21 regularly view what's going on in terms of the  22 science, in terms of sea-level rise, and what's  23 going on at the site, and whether it needs to  24 incorporate any measures now, at that point in time,</p>	<p style="text-align: right;">Page 304</p> <p>1 little of both. The ordinance was enacted about a  2 year ago. The Conservation Commission has not  3 issued regulations to implement the ordinance. But  4 nonetheless, climate change aspects were within the  5 types of questions and concerns that were reviewed  6 by the Conservation Commission.  7 And so it would be sort of presumptive  8 of me to say that what other -- what future  9 regulations that may develop to implement the  10 ordinance were complied with, because they don't  11 exist. But that is an issue that was very  12 definitely considered by the Conservation Commission  13 as part of their review.  14 CHAIR THEOHARIDES: And I imagine they  15 reviewed the wall Chair Nelson was talking about as  16 part of the project.  17 MR. ROSENZWEIG: That was part of the  18 design. I have to say, I did take part in those  19 hearings. I can't remember if the wall was a  20 specific issue or factor that they considered in  21 their review. But I can say climate change and  22 sea-level rise and floods were most definitely part  23 of their review process.  24 CHAIR THEOHARIDES: Okay. Thank you.</p>

<p style="text-align: right;">Page 305</p> <p>1 MR. NELSON: All right. So Mr.  2 Rosenzweig --  3 CHAIR THEOHARIDES: I'm sorry, Chair  4 Nelson, I have one more question.  5 MR. NELSON: I'm sorry.  6 CHAIR THEOHARIDES: No, no. It's been  7 in the back of my mind.  8 When you mentioned the wall, I guess my  9 one concern in thinking about the wall is: Has  10 anyone looked at the -- you know, what that does to  11 the rest of the water system in the area? Does that  12 reflect water elsewhere? Is it more of a flood  13 barrier for the site that doesn't --  14 What's sort of the function of the wall?  15 MR. ROSENZWEIG: As I said, the purpose  16 of the wall was really a safety issue and more of an  17 esthetic. I would say the reality of it is it would  18 tend to impede surging waters and perhaps provide  19 some protection there.  20 CHAIR THEOHARIDES: Is it on the creek  21 side or on the street side?  22 MR. ROSENZWEIG: Those walls would not  23 be on the street side. The police station and the  24 elevation there would provide screening from the</p>	<p style="text-align: right;">Page 307</p> <p>1 approved the project in 2017 were of that vintage,  2 correct.  3 MR. NELSON: So if I'm a member of this  4 community and I'm looking at this -- you know, it's  5 been seven, eight years since 2013, 2014. You know,  6 this is a boy-who-cried-wolf situation; right?  7 There hasn't been an incident. This hasn't been  8 triggered. There's been no loss of power. You  9 know, I want to make sure that the residents and the  10 people who live in East Boston have reliable power,  11 but we have to grapple here kind of with reopening  12 the record.  13 So tell me why this is still needed.  14 Right?  15 MR. ROSENZWEIG: Sure. Just as an  16 initial matter: Sort of the perspective of nothing  17 happened, so we don't need it, is wrong. You know,  18 you don't build facilities like this that it's too  19 early until it's too late. Otherwise you get into  20 situations where you do eventually run high risk and  21 in some instances would actually see faults in the  22 system or the loads on the system, voltage concerns  23 on the system, that would leave customers without  24 power for a considerable length of time. And that's</p>
<p style="text-align: right;">Page 306</p> <p>1 substation. It's on the Condor Street side and the  2 north side of the site that you would see the wall  3 that we're talking about, which would be about 12  4 feet of concrete and 13 feet of fiberglass --  5 subject to community input, as we talked about,  6 within the condition of the Siting Board staff as  7 proposed.  8 CHAIR THEOHARIDES: Okay. Sorry, now I  9 think I am ready to move on. But that does not need  10 additional approval from the wetlands commission to  11 build?  12 MR. ROSENZWEIG: No, I do not believe  13 so. That was part of the design we presented to the  14 Conservation Commission, a facility that's  15 consistent with what's before you now.  16 CHAIR THEOHARIDES: Okay. Thank you.  17 MR. NELSON: Mr. Rosenzweig, let's get  18 to the heart of the case. It's 2021 now. This  19 originally, first instance happened in 2013;  20 correct?  21 MR. ROSENZWEIG: The petition was filed  22 in 2014, and there were forecasts of 2015 and some  23 updates of 2016 data during the original proceeding.  24 But yes, the forecasts on which the Siting Board</p>	<p style="text-align: right;">Page 308</p> <p>1 our responsibility as a transmission company, as a  2 distribution company, to build a system that can  3 withstand those types of foreseeable outcomes.  4 And I would say the Siting Board's  5 statutory mandate sort of parallels that by ensuring  6 a reliable supply of energy to all consumers  7 throughout the state. So it's very important that  8 we do plan ahead and that we do take measures to  9 deal with foreseeable requirements on the system  10 where it needs to be reinforced.  11 But to answer your question more  12 directly: Forecasts go up and down. There's been  13 some reference by GreenRoots to the effects on the  14 ISO forecast and some CELT reports of some decreases  15 in recent years and perhaps some flattening of the  16 load growth over time. Eversource's load pocket  17 here, though, is different from the regional  18 forecast. That was a key finding by the Siting  19 Board in the original proceeding. It is not a --  20 MR. NELSON: Why?  21 MR. ROSENZWEIG: Because load conditions  22 in this area are different from the rest of New  23 England and the rest of the state. We don't peak at  24 a coincident time, that means the same time as the</p>

<p style="text-align: right;">Page 309</p> <p>1 ISO system peaks. There could be and in fact are  2 large step-load additions in this area. One of them  3 that's in the administrative record of this  4 proceeding is beyond the step loads --that the  5 Siting Board relied upon in the initial  6 proceeding -- is a 10-megawatt increase in Logan's  7 needs over time because of a proposal they have to  8 expand some of their facilities on their site.  9 But even beyond that, you know, there  10 are additional step loads that the company sees  11 coming on its system at this point that weren't part  12 of the original proceeding, and these things happen  13 all the time. And one of them, just as a matter of  14 public record, is Suffolk Downs. There was no large  15 proposal actually in the works for redeveloping  16 Suffolk Downs at the time of the company's approval  17 in 2017. There was some talk of maybe a casino at  18 one point in time or Amazon at one point in time.  19 But now we have a concrete proposal at  20 Suffolk Downs that's already received regulatory  21 approval. The Secretary just completed MEPA review  22 last year on Suffolk Downs for a 20-year buildout of  23 that location with 10 and a half million square feet  24 of mixed-use buildings that the company's</p>	<p style="text-align: right;">Page 311</p> <p>1 distribution circuits that come into their property.  2 The other reality is -- and I mentioned  3 this earlier with the substation criteria -- if we  4 were to build out to get to Suffolk Downs -- to  5 MassPort, it would require a much more expensive  6 project, much longer transmission lines. That  7 length would come with additional costs to customers  8 as well as different and more significant impacts to  9 the community, that we're able to avoid by siting  10 this station just adjacent to the Chelsea Creek,  11 where the cables would come through existing duct  12 bank and conduit that's there and come directly into  13 the site. We're able to avoid those costs. We're  14 able to avoid those impacts, and the site is  15 available.  16 There are very few locations that are  17 available in a tight urban area such as East Boston  18 that would be sufficiently large and proximate to  19 transmission and within the load pocket that would  20 allow for a suitable buildout of a facility like  21 this.  22 The same thing at Deer Island as well.  23 They are served by a dedicated line. That line by  24 court order is a dedicated facility that has to be</p>
<p style="text-align: right;">Page 310</p> <p>1 understanding is that will be built out almost  2 immediately. They're getting underway with building  3 that. Over the next 20 years that will result in  4 significant load increases on the Eversource system  5 that have to be served out of East Boston in order  6 to meet that growing load at Suffolk Downs.  7 MR. NELSON: Okay. But let me ask you  8 this, because I asked GreenRoots a similar question:  9 So if need's real, why not build this at Suffolk  10 Downs? Could you explain to me, why not build it at  11 the airport or at Deer Island or Revere or backfeed  12 it through Winthrop?  13 MR. ROSENZWEIG: Well, let me take those  14 one by one, because each situation is different.  15 MassPort? MassPort has its own land. They haven't  16 made it available to Eversource. They have their  17 own needs for their land. We have no way of  18 commanding and requiring them to provide us with  19 that land.  20 MR. NELSON: That's not your service  21 territory; right?  22 MR. ROSENZWEIG: We do. We serve them  23 at a distribution level, not by transmission. We  24 serve them at a distribution level, with several</p>	<p style="text-align: right;">Page 312</p> <p>1 available to serve the MWRA from K Street. It's not  2 available to serve other loads for other customers,  3 as a matter of law.  4 So the reality is, there are very  5 limited areas where the company could build out its  6 system to meet the requirement that it believes is  7 self-evident in this area because of the lack of  8 transmission serving East Boston, as well as the  9 increasing step loads that it's seeing coming onto  10 its system over the next several years.  11 MR. NELSON: Okay. So, then, one of the  12 other themes that I heard clearly from GreenRoots  13 was the transparency of the data, access to the  14 data -- right? -- here. I guess let me start by  15 asking you a little bit about what you said in your  16 opening remark, which is that if we reopen the  17 record here, it would have a slippery-slope effect;  18 right? The result of that is that siting decisions  19 would never be finalized; right?  20 I want to start by pushing back on that  21 a little bit. If there was a major change -- let's  22 say the airport went out of business, Logan Airport  23 went out of business -- you would admit that would  24 be a reason to reopen the record; correct?</p>

<p style="text-align: right;">Page 313</p> <p>1 MR. ROSENZWEIG: And I think staff  2 pointed that out in their remarks at the first  3 Siting Board meeting on December 16th, that there  4 might be global events such as that that are so  5 significant in nature that that might be the case.  6 Logan Airport is a major load for the company, and I  7 think Mr. Greene and Ms. Evans said if that suddenly  8 permanently shut down and went out of business, that  9 might meet this sort of compelling-circumstance type  10 of standard that applies; and the courts say you  11 should reopen the record only where it is the most,  12 the truly exceptional circumstance, not as  13 garden-variety changes in load fluctuations, which  14 do occur over time. And I submit that that's sort  15 of a consideration for the Board, would even be a  16 higher load than we projected last year, for  17 instance, because of the step loads we see coming  18 onto the system such as Suffolk Downs.  19 So it's very hard to say what would be  20 the threshold. Yes, I would submit the Logan  21 Airport scenario might qualify. But, you know, a 1  22 or 2 percent change in a given year really doesn't  23 do it, and that's sort of the types of  24 fluctuations -- that's the ebb and flow of what</p>	<p style="text-align: right;">Page 315</p> <p>1 wasn't needed. That wouldn't be a reasonable thing  2 to do, and that's not the position we're taking  3 here.  4 Our best information is that this  5 facility is still needed and needed in the short  6 term, over the next several years, in order to meet  7 the requirements of all customers that would be  8 served out of that substation.  9 So bright line? I can't give you one.  10 But we're not there. The forecast and our  11 continuing projections are this facility continues  12 to be needed.  13 MR. NELSON: All right. But let's  14 say -- I mean, it sounds that you're convinced that  15 some evidence that is not on the record, to be  16 clear, would reinforce the case that you've already  17 made in the proceedings. So why not reopen the  18 record, admit that in, and demonstrate the need to  19 the community?  20 MR. ROSENZWEIG: It would dwarf the  21 other effects they're talking about, to be sure.  22 But the reason is because the decision was made by  23 the Siting Board. It's final. We're entitled to  24 due process. Finality has importance. Siting Board</p>
<p style="text-align: right;">Page 314</p> <p>1 happens in a load forecast. It's really a longer-  2 term trend than a one-year or two-year sort of  3 situation. And we would expect, even with COVID  4 situations, that that would be somewhat of a  5 short-term effect, temporary, and we certainly hope  6 and expect that that will not be a longer-term  7 issue, diminishing load, not just in East Boston,  8 but throughout our service territory.  9 MR. NELSON: So if we're looking at a  10 general case, adding FTEs, post-test-year  11 adjustments, at a regular rate case, when you're  12 talking ebb and flow and you're talking what the  13 standard is, usually there's a bandwidth to define  14 that threshold. And I would imagine, does the  15 company have a threshold here, where they would say  16 if load changed by X percent, that would trigger us  17 to either, A, need to build a new substation --  18 certainly I think they probably have that -- or B,  19 this would be a reason that we would no longer need  20 a substation? Is that something the company has?  21 MR. ROSENZWEIG: I can't say there's a  22 bright line. But if the company thought the  23 substation was no longer going to be needed, it  24 would not spend wastefully on a substation that</p>	<p style="text-align: right;">Page 316</p> <p>1 standards would indicate that this is not the type  2 of circumstance where the opponents that have raised  3 the issue for reopening the proceeding have met the  4 standard for reopening. They haven't clearly shown  5 with good cause that what they're alleging would  6 have a likelihood of having a significant impact on  7 the outcome of the proceeding. That standard hasn't  8 been met.  9 And the judicial precedent is very  10 cautionary to agencies such as the Siting Board, and  11 I would caution the Siting Board here that reopening  12 a final adjudication after the appeal periods have  13 lapsed should be done sparingly at most, very  14 rarely, and only in instances, frankly, where  15 there's matters of fraud or changes in law, but not  16 sort of garden-variety fluctuations in load, which  17 will happen all the time.  18 And you'll be facing that allegation in  19 every case, that the Siting Board should not give  20 final approval or should be able to reopen its final  21 approvals based on circumstances that might happen a  22 year later or two years later or three years later,  23 and we would never get these facilities built, and  24 that would be a very bad outcome for the reliability</p>

<p style="text-align: right;">Page 317</p> <p>1 of electric service in Massachusetts.</p> <p>2 So I would be very cautious about doing</p> <p>3 that in this proceeding. There's no reason or us to</p> <p>4 have to prove something that's already been fairly</p> <p>5 and fully adjudicated and where our continuing best</p> <p>6 information is that it still continues to be needed.</p> <p>7 And I'm raising the issues with Suffolk</p> <p>8 Downs and some of the other step loads just to</p> <p>9 counterbalance some of the assertions that have been</p> <p>10 made by GreenRoots, the other side. I'm not saying</p> <p>11 that you should take that in as evidence and make a</p> <p>12 finding based on what I'm saying. But that is a</p> <p>13 consideration. As I said in my opening comments,</p> <p>14 for everything they might raise with respect to</p> <p>15 things that might tend to decrease loads, we would</p> <p>16 point to other factors that would have the opposite</p> <p>17 effect and maybe a greater effect. So you can never</p> <p>18 get there, you can never get to a level of</p> <p>19 certainty, that --</p> <p>20 MR. NELSON: And so, you know, I think</p> <p>21 Mr. Daniels would probably take umbrage at calling</p> <p>22 the underlying case fairly disputed. He had</p> <p>23 indicated that there was a potential violation of</p> <p>24 not holding a hearing in the East Boston community.</p>	<p style="text-align: right;">Page 319</p> <p>1 comment hearing in each one of those theoretically</p> <p>2 eight to ten communities through which a</p> <p>3 jurisdictional facility may pass. It may be one or</p> <p>4 two public comment hearings and then adjacent</p> <p>5 communities can attend those public comment</p> <p>6 hearings.</p> <p>7 But here they did not hold a public</p> <p>8 hearing the first time around in East Boston, but</p> <p>9 that's just an adjacent community to Chelsea and to</p> <p>10 Everett, and there was the opportunity for</p> <p>11 involvement by the public at that public comment</p> <p>12 hearing. And in fact, there was involvement.</p> <p>13 I should point out, GreenRoots didn't</p> <p>14 even exist at the time of the public comment hearing</p> <p>15 in 2015. So it's hard for them to complain that</p> <p>16 they weren't able to participate, because they</p> <p>17 didn't exist as a formal organization. The Chelsea</p> <p>18 Collaborative did exist, and they participated.</p> <p>19 MR. NELSON: But I think they're fairly</p> <p>20 representing the views of the people of East Boston;</p> <p>21 right? -- if what they're claiming, whether or not</p> <p>22 the organization existed or not. I think they're</p> <p>23 saying, "The people we represent weren't fairly</p> <p>24 heard."</p>
<p style="text-align: right;">Page 318</p> <p>1 Do you have a reaction to that? Because you are</p> <p>2 saying that the underlying decision was fairly</p> <p>3 arrived at.</p> <p>4 MR. ROSENZWEIG: Most definitely. It</p> <p>5 was a robust proceeding. You look at the number of</p> <p>6 parties and interested persons, limited</p> <p>7 participants, in that case. The public hearings</p> <p>8 were well attended.</p> <p>9 Mr. Daniels alluded to the language in</p> <p>10 Section 69J about public hearings in each locality.</p> <p>11 We differ from him on what that means. If the</p> <p>12 legislature had intended that the words were "in</p> <p>13 each or every city or town," they would have said</p> <p>14 so. They used the term "locality," which is a</p> <p>15 broader term and which the Siting Board's</p> <p>16 regulations recognize do not require a public-</p> <p>17 comment hearing in every city or town in which a</p> <p>18 facility may pass.</p> <p>19 And given Siting Board history, there</p> <p>20 are -- almost every case that the Siting Board</p> <p>21 considers involves facilities that go through</p> <p>22 multiple communities, sometimes as many as six or</p> <p>23 eight or ten communities. And never have I seen a</p> <p>24 Siting Board proceeding which required a public</p>	<p style="text-align: right;">Page 320</p> <p>1 MR. ROSENZWEIG: But they were heard.</p> <p>2 It was a robust proceeding. There was 60 or 80</p> <p>3 limited participants as well as several intervenors</p> <p>4 in the case. And the issues of the load forecasts</p> <p>5 were very contentious and fully reviewed. There was</p> <p>6 expert testimony from more than one witness on the</p> <p>7 issue of the need for the facility. And the company</p> <p>8 made its case, and the facts supported the Siting</p> <p>9 Board's decision that both the transmission line to</p> <p>10 the substation as well as the substation itself were</p> <p>11 needed.</p> <p>12 I take exception with any notion that</p> <p>13 there wasn't meaningful opportunity for involvement</p> <p>14 in the original Siting Board proceeding or that</p> <p>15 there wasn't full and fair adjudication of the need</p> <p>16 for the facility in that proceeding.</p> <p>17 CHAIR THEOHARIDES: You're going a</p> <p>18 little fast. Sorry, I just got the hand signal from</p> <p>19 our interpreter.</p> <p>20 MR. ROSENZWEIG: Thank you.</p> <p>21 MR. NELSON: Thank you, Mr. Rosenzweig.</p> <p>22 I appreciate your candor.</p> <p>23 CHAIR THEOHARIDES: Are there other</p> <p>24 questions for Mr. Rosenzweig? Yes, Ms. Fraser?</p>



<p style="text-align: right;">Page 321</p> <p>1 MS. FRASER: I have a couple of 2 questions. I notice we're at 4:59, and we planned 3 on a break at 5:00. 4 CHAIR THEOHARIDES: I think let's take 5 your questions, and then we'll take a break. 6 MS. FRASER: Okay, super. I'll go right 7 ahead. 8 Just a couple of questions, Attorney 9 Rosenzweig. GreenRoots raised concerns about people 10 looking for scrap metal. I know you talked about 11 the wall. Could you just talk about what measures 12 the company will take to secure the property to 13 prevent unauthorized access? 14 MR. ROSENZWEIG: Yes. The facility will 15 be locked and will not be passable. The fencing 16 that we talked about won't be scalable. We have 17 designed the facility so that it's resistant to 18 trespassing. They'd have to go right by the police 19 station in order to do that. That provides another 20 level of protection. 21 I think it's quite unlikely at this 22 location that we'll see anything like scavenger 23 hunts at our substation for metal, given its 24 location and security provisions, with video cameras</p>	<p style="text-align: right;">Page 323</p> <p>1 system? I know you addressed this a little bit. 2 MR. ROSENZWEIG: I did. Our job is to 3 be proactive and to get out ahead of those issues, 4 to make sure that the safety, reliability of service 5 to customers is achieved. And the standards we use 6 for how we plan for these facilities are very common 7 across all utilities of Massachusetts and, frankly, 8 nationally. We're also subject to national and 9 Federal standards with regard to transmission 10 planning, and there's organizations like NERC and 11 FERC and ISO New England that closely watch what the 12 companies do. And we have to get our plans approved 13 by them and projects, if they're of a regional 14 nature, have to receive ISO review before they're 15 constructed on a local level. 16 We certainly have the same types of 17 standards that apply. We have something called 18 SYSPLAN 010, which describes the standards the 19 company employs for building outside its 20 distribution system. And we're subject to DPU 21 review. We file on an annual basis reviews and 22 plans and the status of circuits in the areas of our 23 system that are vulnerable and that have had high 24 outage counts. And so that we have continuing</p>
<p style="text-align: right;">Page 322</p> <p>1 and locked gates and high walls, that would make 2 that concern a reality. 3 MS. FRASER: Thank you. Thank you for 4 that response. 5 On magnetic fields from the project 6 affecting the police station: For example, would 7 the magnetic fields interfere with police radio 8 communications equipment? 9 MR. ROSENZWEIG: I have not seen any 10 information along those lines. We have been in 11 discussions with the police station. I'm unaware of 12 any concerns in that regard. I believe those are 13 all on different frequencies, radio frequencies, 14 than the magnetic fields from the station. But I 15 confess, I could look into that, but I don't have a 16 complete answer for you. My experience with that 17 issue is that it's not likely to have any 18 interference with their own internal communications. 19 MS. FRASER: Okay, thank you. Is it 20 statewide practice for Eversource and other 21 utilities to build a substation before a 22 low-likelihood contingency causes rolling blackouts 23 in a service area, or do utilities typically wait 24 until there's a blackout before building out the</p>	<p style="text-align: right;">Page 324</p> <p>1 oversight both at the State and Federal level to 2 ensure that the standards we implement conform with 3 regulatory requirements. 4 MS. FRASER: Okay. Thank you. Let me 5 check my notes. I think all the other questions I 6 have were addressed. 7 Could you just tell me briefly how East 8 Boston -- explain how East Boston is connected to 9 the grid? I think you may have touched on that. 10 MR. ROSENZWEIG: Yeah, I can. It's an 11 island, if you will, that's served only by several 12 distribution circuits that come out of the Chelsea 13 station. There's no transmission that connects into 14 East Boston. And so there are limits on what can be 15 supplied through those distribution circuits. And 16 if there's outage either at the Chelsea station at a 17 transformer level or there's a problem or a fault on 18 one of those distribution circuits, East Boston is 19 at great vulnerability for loss of service. 20 And the addition of these new 21 transmission lines, if they were able to be looped 22 into a substation in East Boston, would alleviate 23 that concern for the foreseeable future. It would 24 make for a much more reliable supply and remove the</p>

<p style="text-align: right;">Page 325</p> <p>1 situation where the East Boston loads are vulnerable  2 to outages because of the lack of transmission and  3 the contingencies that might occur either at Chelsea  4 Station or on the distribution circuits that serve  5 East Boston from overloads or faults that might  6 result in a loss of supply to East Boston.  7 MS. FRASER: Thank you for that. Thank  8 you, Attorney Rosenzweig.  9 Thank you, Madam Chair.  10 MS. EVANS: May I ask one followup  11 question to Mr. Rosenzweig? The information about  12 how East Boston is served by Eversource, that  13 information's on the record in this proceeding; is  14 that correct?  15 MR. ROSENZWEIG: Yes. I do recall  16 reading -- I can't remember whether it was the  17 tentative decision, original decision -- that the  18 East Boston area is not served by transmission.  19 That is, it's essentially an island and is served  20 only by distribution and supply that comes out of  21 Chelsea Substation, yes.  22 MS. EVANS: Thank you. Thank you, Madam  23 Chair.  24 CHAIR THEOHARIDES: Okay. It is 5</p>	<p style="text-align: right;">Page 327</p> <p style="text-align: center;">REPORTER'S CERTIFICATE</p> <p>I, Alan H. Brock, the officer before  whom the foregoing proceedings were taken, do  certify that this transcript is a true record of the  proceedings on February 8, 2021.</p> <p style="text-align: center;">_____  Alan H. Brock, RDR, CRR</p>																
<p style="text-align: right;">Page 326</p> <p>1 after. I'm going to ask us to come back at 6:00,  2 following a break. At that point, unless there are  3 further questions, we will start the public comment  4 period of the hearing. Thank you all, and see you  5 at 6:00 o'clock.  6 (Recess taken.)  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24</p>	<p style="text-align: right;">Page 328</p> <p style="text-align: center;">I N D E X</p> <p>Comments by:</p> <table> <tr> <td>Representative Adrian Madaro</td> <td>178</td> </tr> <tr> <td>Councilor Michelle Wu (by John Walkey)</td> <td>185</td> </tr> <tr> <td>Bryndis Woods</td> <td>191</td> </tr> <tr> <td>Marcos Luna</td> <td>196</td> </tr> <tr> <td>Joshua Daniels</td> <td>223</td> </tr> <tr> <td>Rose Ann Bongiovanni</td> <td>242</td> </tr> <tr> <td>Amy Laura Cahn</td> <td>251</td> </tr> <tr> <td>David Rosenzweig</td> <td>275</td> </tr> </table>	Representative Adrian Madaro	178	Councilor Michelle Wu (by John Walkey)	185	Bryndis Woods	191	Marcos Luna	196	Joshua Daniels	223	Rose Ann Bongiovanni	242	Amy Laura Cahn	251	David Rosenzweig	275
Representative Adrian Madaro	178																
Councilor Michelle Wu (by John Walkey)	185																
Bryndis Woods	191																
Marcos Luna	196																
Joshua Daniels	223																
Rose Ann Bongiovanni	242																
Amy Laura Cahn	251																
David Rosenzweig	275																

<hr/>	<b>14-153A/14-154A</b> 167:6 176:5 185:10	<b>2017</b> 176:8 185:16 192:12 251:23 253:20 258:17 274:24 288:10 307:1 309:17	<b>2nd</b> 167:16	<b>60</b> 320:2
<hr/>			<hr/>	<b>60-odd-million-dollar</b> 303:4
<b>--that</b> 309:4	<b>15</b> 283:9		<b>3</b>	<b>61</b> 260:6
<b>-peaking</b> 253:9	<b>15th</b> 261:10	<b>2018</b> 206:23 231:9	<b>3</b> 201:11,14	<b>64</b> 260:3
<hr/>	<b>16</b> 210:16 260:17 265:4 267:10	<b>2019</b> 191:12 193:6 206:24 217:2 218:3 224:18	<b>3.9</b> 259:24	<b>646.558.8656</b> 165:21
<hr/>	<b>164</b> 224:15	<b>2020</b> 167:15 169:15 185:14 188:22 191:16 192:24 196:3 216:2 252:21 255:13,20,23 256:5 258:17 260:17 261:10	<b>30</b> 168:8 174:16 280:20 296:21 298:16 301:19 303:1	<b>67</b> 209:5
<b>0</b>			<b>300</b> 276:16	<b>69G</b> 227:22
<b>0.03</b> 193:12	<b>16th</b> 167:14 252:21 256:4 257:19 261:23 262:6 272:21 313:3		<b>30B</b> 286:12	<b>69J</b> 223:23 224:15 227:7 318:10
<b>0.05</b> 193:13	<b>17th</b> 167:15	<b>2021</b> 167:16 192:16 306:18	<b>30th</b> 253:20 274:24	<b>6:00</b> 168:5 326:1,5
<b>0.4</b> 193:4 217:2	<b>18.7</b> 208:4	<b>2022</b> 231:11	<b>3:45</b> 168:6	<b>6:16</b> 255:13
<b>0.9</b> 192:20,22 193:3,9 217:4	<b>19-year</b> 213:22	<b>2023</b> 231:11	<hr/>	<b>6th</b> 255:23
<b>0.9-percent-</b> 193:23	<b>19.71</b> 300:5	<b>2030</b> 194:4 213:10,19, 23	<b>4</b>	<hr/>
<b>010</b> 323:18	<b>195</b> 166:10,13 173:13, 18	<b>2035</b> 283:10,12	<b>4</b> 203:9 210:14 215:22 216:23	<b>7</b>
<hr/>	<b>1980s</b> 200:14	<b>2050</b> 213:10,23 214:13 282:2	<b>4.8</b> 222:19	<hr/>
<b>1</b>	<b>1990</b> 200:18	<b>2070</b> 199:10,13,19 207:20 210:16 213:1,3, 10,14,16,23 214:13 222:16,21 296:5	<b>40</b> 280:2,6,20 296:21	<b>7</b> 213:11 222:17
<b>1</b> 209:13 232:1,13 313:21	<b>19th</b> 266:2	<b>2080</b> 210:16	<b>40-year</b> 199:16 279:23 280:4	<b>7.2</b> 259:24
<b>1.0</b> 192:15,22	<b>1st</b> 167:16 176:8	<b>2090</b> 213:10	<b>4:00</b> 274:8,19	<b>7.4</b> 259:21
<b>1.6</b> 260:2	<hr/>	<b>2100</b> 199:6 208:13 213:10	<b>4:59</b> 321:2	<b>70</b> 301:7
<b>1.888.585.9008</b> 166:9,12 173:13,17	<b>2</b>	<b>21E</b> 240:18	<hr/>	<b>75</b> 200:15
<b>10</b> 168:7 203:5 211:6 309:23	<b>2</b> 206:23 207:14 209:13 232:3,18 313:22	<b>23</b> 210:2 255:15 300:8 301:5	<b>5</b>	<b>7th</b> 260:17
<b>10-foot</b> 209:16 210:3 213:2	<b>20</b> 240:23 296:21 303:1 310:3	<b>23-foot</b> 210:4 297:12	<b>5</b> 201:14 210:14 325:24	<hr/>
<b>10-megawatt</b> 309:6	<b>20-</b> 302:6	<b>25</b> 211:9 240:23	<b>50</b> 200:24 201:15 248:3 296:6 301:18	<b>8</b>
<b>10.06</b> 261:4	<b>20-year</b> 214:1 309:22	<b>25-foot</b> 295:10	<b>500-year</b> 209:14 210:22 300:2	<hr/>
<b>100-year</b> 207:19 210:21 211:8	<b>200</b> 176:13	<b>26</b> 211:9	<b>548</b> 166:10,13 173:14, 18	<b>80</b> 201:15 296:7 301:7 320:2
<b>10th</b> 169:15 255:20	<b>2007</b> 200:19	<b>27</b> 211:9	<b>55</b> 201:17	<b>857.200.0065</b> 170:22
<b>11</b> 190:5	<b>2012</b> 206:10	<b>28</b> 200:22	<b>572</b> 166:10,13 173:13, 17	<b>8:00</b> 167:24
<b>115</b> 281:18	<b>2013</b> 306:19 307:5	<b>2:30</b> 168:6 221:20	<b>5:00</b> 168:4 321:3	<hr/>
<b>11th</b> 256:1	<b>2014</b> 200:22 206:16 291:9 302:7 306:22 307:5	<b>2:40</b> 222:10	<b>5th</b> 224:18 255:13	<b>9</b>
<b>11th-hour</b> 258:8	<b>2015</b> 192:12,23 193:5 207:8 217:2 218:1,11, 15 306:22 319:15		<hr/>	<hr/>
<b>12</b> 306:3	<b>2016</b> 198:9,21 207:5 302:7 306:23		<b>6</b>	<b>9</b> 172:5,9 175:17 216:18 264:2
<b>13</b> 306:4			<hr/>	<b>9.9</b> 210:1
<b>14</b> 281:20			<b>6</b> 202:4 210:14	<b>90</b> 200:22 278:20,24 301:8
<b>14-04A/DPU</b> 167:6 176:4 185:9				<b>90/10</b> 278:5,23 279:10, 15

<b>A</b>	287:4,5	<b>adjacent</b> 179:18 241:2 311:10 319:4,9	229:12 300:20	193:18 195:24 198:5 213:10 221:14 262:18 267:21
<b>a.m.</b> 168:1	<b>actions</b> 252:5 258:14	<b>adjudicated</b> 230:6 317:5	<b>agenda</b> 176:1	<b>analyzing</b> 196:17
<b>abide</b> 223:22 228:9	<b>activists</b> 186:13	<b>adjudication</b> 223:18 224:12 316:12 320:15	<b>aggressive</b> 296:8,17 297:14 300:18,19	<b>Andy</b> 168:23 177:8
<b>ability</b> 187:18 236:11 284:24	<b>activities</b> 273:3 293:8	<b>adjust</b> 302:13	<b>agree</b> 230:6 299:17	<b>Ann</b> 189:20 269:15
<b>absence</b> 202:22	<b>activity</b> 294:1	<b>adjusting</b> 219:16	<b>ahead</b> 190:23 204:14, 16 247:23 308:8 321:7 323:3	<b>announced</b> 172:6
<b>absolutely</b> 217:12 275:2 301:23	<b>actual</b> 165:17 186:22 221:11,14 237:14 290:4	<b>adjustments</b> 196:2 314:11	<b>air</b> 186:11 263:4 265:10,22	<b>annual</b> 193:3,9 213:18 216:24 323:21
<b>absorb</b> 246:21	<b>acutely</b> 264:22	<b>administration</b> 169:4 187:22 257:1,11	<b>airport</b> 179:17 186:11 233:3,7,10 247:15 310:11 312:22 313:6, 21	<b>annually</b> 216:19
<b>abuts</b> 180:22	<b>adapt</b> 302:15	<b>administrative</b> 309:3	<b>airport's</b> 233:11	<b>answers</b> 213:5 245:21
<b>accelerate</b> 185:23 302:4	<b>add</b> 182:3 198:2 201:7 203:24 210:13,19 211:1,3,6 235:24	<b>admit</b> 312:23 315:18	<b>allegation</b> 316:18	<b>anticipated</b> 194:16 214:9 218:14 303:10
<b>accelerating</b> 201:8	<b>add-on</b> 298:1	<b>admittedly</b> 197:20	<b>alleging</b> 316:5	<b>anticipating</b> 288:3,10
<b>acceptable</b> 248:4	<b>added</b> 166:5 173:9 206:15,22,23	<b>adopt</b> 245:11	<b>alleviate</b> 324:22	<b>Antonellis</b> 189:22
<b>access</b> 166:11 173:1,16 187:17 195:12 215:1,6, 20 224:6,22 226:2 252:12,20,23 253:5 254:11 256:5,7,9,14,15 257:18 258:20 260:6, 11 261:3 268:24 269:24 270:8,11,19 272:7 273:5 275:7 283:16 312:13 321:13	<b>adding</b> 210:14,22 314:10	<b>adopted</b> 202:1	<b>Allison</b> 265:18	<b>apologized</b> 255:5
<b>accessible</b> 189:5 236:6 258:23	<b>addition</b> 168:7 174:5 180:1 195:3 227:9 229:15 324:20	<b>Adrian</b> 177:11	<b>allowing</b> 275:22	<b>Aponte</b> 189:19
<b>accessing</b> 170:11	<b>additional</b> 166:5 173:9 174:24 175:15 184:1 189:4 190:3 238:11,24 245:6 250:10,12 275:10 294:16 295:11 297:5 298:7 303:2 306:10 309:10 311:7	<b>adult</b> 182:9	<b>alluded</b> 318:9	<b>appalling</b> 261:14
<b>accommodating</b> 288:17	<b>Additionally</b> 181:2,12	<b>advance</b> 253:18	<b>already-</b> <b>overburdened</b> 260:22 265:8	<b>appeal</b> 316:12
<b>account</b> 202:10 266:4 299:11 302:19	<b>additions</b> 196:5,6 221:13 230:19 231:14 309:2	<b>adverse</b> 266:4 299:21	<b>alternative</b> 181:6	<b>appealed</b> 228:9 234:7, 11
<b>accurate</b> 207:23 212:12 252:16	<b>address</b> 177:13 265:20 281:11 291:3 292:18 296:4,22 298:18	<b>advise</b> 184:14	<b>Amazon</b> 309:18	<b>appealing</b> 239:4
<b>accurately</b> 172:20	<b>addressed</b> 181:10 182:15 323:1 324:6	<b>advising</b> 200:3	<b>amendment</b> 272:14	<b>appears</b> 213:15
<b>achieved</b> 323:5	<b>addresses</b> 170:17	<b>Advisory</b> 198:23	<b>amendments</b> 170:1 245:11 256:19 261:8 264:2,3 265:11	<b>applicable</b> 294:6
<b>acknowledged</b> 255:5	<b>addressing</b> 215:14	<b>advocacy</b> 265:5	<b>American</b> 180:23 182:18 183:1 198:19 206:13	<b>applicant</b> 189:8
<b>acquire</b> 285:2 287:7	<b>adequate</b> 202:10 255:4	<b>advocates</b> 185:15	<b>amount</b> 211:4 212:7 250:1 290:14 291:19 297:17	<b>Applied</b> 191:6
<b>acquired</b> 287:8	<b>adequately</b> 181:10	<b>Affairs</b> 167:8 187:15	<b>ample</b> 174:11 297:13, 22 301:14	<b>applies</b> 313:10
<b>acquisition</b> 285:9		<b>affect</b> 261:16	<b>Amy</b> 251:13	<b>apply</b> 227:12 267:16, 17,18 323:17
<b>acting</b> 251:17		<b>affected</b> 235:3	<b>analyses</b> 198:1 264:6 266:3	<b>appreciative</b> 275:24
<b>action</b> 256:21 257:9,14		<b>affecting</b> 322:6	<b>analysis</b> 185:21 186:23 191:9 192:18	<b>approach</b> 293:10
		<b>afield</b> 245:18		<b>approaching</b> 174:19 229:6
		<b>afternoon</b> 165:3 167:2 178:13 191:3 196:13 251:11 267:4		<b>approval</b> 176:5,13 183:6 289:8 300:22 306:10 309:16,21 316:20
		<b>agencies</b> 180:12 185:12 199:2 201:20 202:1,12 256:18 257:8, 10,22 267:19 316:10		<b>approvals</b> 185:18 264:8 316:21
		<b>agency</b> 187:11 198:7		<b>approve</b> 249:3 285:21 289:5

<b>approved</b> 176:8,9,14 248:24 276:18 307:1 323:12	<b>assistance</b> 170:22 242:12	<b>awkwardness</b> 248:23	<b>bays</b> 240:2	188:21 189:3 190:8 191:4,18,22 195:14 204:11,24 212:8 214:20 223:8,13 224:3 226:8,10,14 234:4,10, 16,20 235:2 236:22 237:7 245:11 250:10 251:12 252:9 253:20 254:1 255:11,23 256:18 257:18,22 258:14,15,18 259:5 260:19 261:6,7,9 263:18,22 264:14,15 266:9,12 267:2 270:7, 10,20,22 271:8,12,20 272:17,19,24 274:13 275:4,6,19,24 276:6,19 285:4,9,11 286:21,23 287:4 288:5,8,9 289:24 290:16,18,23 291:8,20 292:1 294:5 298:12,19 306:6,24 308:19 309:5 313:3,15 315:23,24 316:10,11,19 318:19, 20,24 320:14
<b>approves</b> 298:19	<b>assume</b> 184:21 193:22 241:22	<b>B</b>	<b>bear</b> 200:12	<b>Board's</b> 169:14 170:6 189:6 217:14 224:12, 15 230:9 235:4,15,17 251:23 252:14 256:10 258:20 262:11 264:11 285:19,20 289:1 292:17 308:4 318:15 320:9
<b>approximately</b> 168:6 174:13 176:13	<b>assuming</b> 215:24	<b>back</b> 177:19 183:7 192:1 194:8 195:8,23 206:10 209:22 221:24 222:13 231:7,11,16 244:8 245:7 257:2 274:10 278:2 286:15 288:9 302:6 305:7 312:20 326:1	<b>bearing</b> 186:9	<b>bodies</b> 263:15
<b>Arabic</b> 294:3	<b>assumption</b> 216:18	<b>backfeed</b> 310:11	<b>begin</b> 165:4 169:8,24 171:22 175:23 176:18, 20 190:24 223:9	<b>body</b> 187:14
<b>area</b> 169:20 180:9,15, 22 182:17 183:1 185:20 194:3 196:16 211:3,19,22 216:9 245:18 247:12 276:21, 24 277:2,4,16 280:17, 21 281:1,23 283:2 287:19 305:11 308:22 309:2 311:17 312:7 322:23 325:18	<b>assumptions</b> 221:11 296:18 300:18	<b>background</b> 165:18 171:14	<b>beginning</b> 292:19 300:14	<b>Boncore</b> 189:13
<b>areas</b> 246:19 247:6,19 260:1 280:24 282:12, 20 312:5 323:22	<b>assured</b> 214:12	<b>backs</b> 243:24	<b>behalf</b> 190:17 251:20 274:21 275:23	<b>Bonfiglio</b> 168:21
<b>arguably</b> 268:2	<b>asthma</b> 182:8 188:2	<b>bacon</b> 244:10,12,13	<b>behest</b> 285:19	<b>Bongiovanni</b> 176:24 190:12 242:10 269:15
<b>arguing</b> 232:9	<b>atmosphere</b> 201:7,9, 13	<b>bad</b> 316:24	<b>behind-the-</b> 229:15	<b>Boston</b> 176:11 178:21 179:11 180:2,8,11 181:4,7 182:9 183:22 184:6 185:20 186:12, 19 187:21 188:15,24 189:15,17 192:15,19 193:2,8,16,23 194:3, 14,17 195:18,22 196:1, 19 198:8,21,23 199:4,6 203:12 206:6 207:5,9, 11,20 211:20 213:8 216:12 220:14,23 223:24 224:14,16
<b>argument</b> 232:18	<b>attacked</b> 260:21	<b>Bailey</b> 189:21	<b>behooves</b> 259:4	
<b>arguments</b> 197:24 232:12	<b>attempt</b> 289:23 290:10,11	<b>baked</b> 223:17 224:10	<b>believes</b> 312:6	
<b>arise</b> 301:16	<b>attempting</b> 256:13 268:6	<b>Baker</b> 169:3,4 262:7, 12 264:1	<b>Ben</b> 189:22	
<b>Arlington</b> 191:7	<b>attempts</b> 238:3	<b>Baker's</b> 169:15 265:11	<b>beneficiary</b> 233:8	
<b>arrivals</b> 173:24	<b>attend</b> 238:19 272:21 319:5	<b>balance</b> 254:7	<b>benefit</b> 184:20 240:20 241:4,20 275:3 303:8	
<b>arrive</b> 214:12,13	<b>attended</b> 318:8	<b>ball</b> 219:23	<b>benefits</b> 244:2 263:6 265:1 268:23	
<b>arrived</b> 318:3	<b>attending</b> 178:3	<b>band</b> 208:11,15,21,24 209:6,12	<b>bible</b> 206:18	
<b>arrives</b> 187:21 210:20	<b>attention</b> 212:6 252:19 260:20	<b>bandwidth</b> 314:13	<b>bid</b> 286:12	
<b>Artery/tunnel</b> 206:6	<b>attorney</b> 177:6 244:21 251:19,21 321:8 325:8	<b>bank</b> 311:12	<b>bide</b> 169:4	
<b>ASCE's</b> 206:16	<b>attractive</b> 290:8	<b>barely</b> 231:2	<b>Biden's</b> 265:11	
<b>aspects</b> 178:18 304:4	<b>audible</b> 171:3	<b>barrier</b> 305:13	<b>big</b> 241:18	
<b>assertion</b> 226:13,22	<b>audience</b> 171:4	<b>barriers</b> 296:24 299:5	<b>bill</b> 264:2,3,5	
<b>assertions</b> 317:9	<b>audio</b> 165:16 167:1 171:15,19	<b>base-level</b> 294:20	<b>bit</b> 186:4 205:23 218:23 245:8 249:24 275:15 299:15 312:15, 21 323:1	
<b>assess</b> 221:13 266:4 299:7	<b>authority</b> 264:18	<b>based</b> 191:7 198:6,10, 23 206:9,14 207:2,4 217:19 229:5 248:17 276:13 278:19,22 279:10 316:21 317:12	<b>black</b> 243:24	
<b>assessment</b> 197:15 200:17,18 206:9 214:11 264:7	<b>average</b> 201:13 260:14	<b>basic</b> 198:2	<b>blackout</b> 322:24	
<b>asset</b> 241:10	<b>averages</b> 213:22	<b>basically</b> 218:23	<b>blackouts</b> 322:22	
	<b>avoid</b> 197:17 301:7 311:9,13,14	<b>basis</b> 230:12 231:5 237:16 323:21	<b>blank</b> 239:2	
	<b>avoidance</b> 197:21		<b>blocks</b> 178:23	
	<b>avoiding</b> 299:21		<b>Board</b> 167:4,10,11,14, 22,24 168:11,23 169:1, 3,11,18,20,24 170:4,10 171:3,4,18 172:1 174:3,8,9,11,18 175:1 176:6,8,18 177:14 178:14 185:6,9,13	
	<b>aware</b> 264:22 291:11, 23			

226:24 227:5 228:3 232:6,21,22 234:11,17 236:9 238:23 240:18 242:3 243:3,4 247:3,4, 17 249:17 252:10 253:9 258:13 259:6,10, 17,19,21,22 260:3,7, 11,18,21 261:2,13,22 264:10,12,20 265:8 266:11 269:7 276:21, 24 277:13,14 280:24 281:23 284:24 286:11, 12 291:23 292:8,11 300:22 303:20 307:10 310:5 311:17 312:8 314:7 317:24 319:8,20 324:8,14,18,22 325:1, 5,6,12,18 <b>Boston's</b> 185:21 188:14 240:22 245:16 259:24 <b>Boston-chelsea</b> 258:10 <b>Boston/chelsea</b> 218:8 <b>both-way</b> 271:13 <b>bottom</b> 165:10 172:11 173:3 202:2 205:21 206:4 212:5 274:1 <b>box</b> 165:15 <b>boy-who-cried-wolf</b> 307:6 <b>BPTA</b> 207:4,14 <b>bracket</b> 204:5 <b>bracketing</b> 229:1 <b>BRAG</b> 198:24 199:5,8 203:3 207:21 208:8 213:20 222:19 296:9 300:18 302:6 303:10, 22 <b>break</b> 168:4 173:23 188:5 221:20,22 273:12,18 274:4,21 321:3,5 326:2 <b>breaks</b> 168:5 <b>Brian</b> 168:22 <b>briefly</b> 168:9 324:7	<b>bright</b> 314:22 315:9 <b>bring</b> 177:8 204:23 205:7 225:6 256:21 273:20 280:16 <b>bringing</b> 211:2 212:19 <b>brings</b> 179:11 <b>broad</b> 256:23 292:8 <b>broadband</b> 260:11 <b>broader</b> 318:15 <b>broadly</b> 219:21 236:7 <b>brought</b> 177:4 224:6 226:7 <b>brown</b> 189:23 244:1 <b>Bryndis</b> 177:6 189:9 191:5 264:18 <b>build</b> 185:18 245:21 246:2,13 264:4 277:10, 18 280:13,18 298:3 300:10 306:11 307:18 308:2 310:9,10 311:4 312:5 314:17 322:21 <b>building</b> 212:11 221:7 282:14 310:2 322:24 323:19 <b>buildings</b> 309:24 <b>buildout</b> 309:22 311:20 <b>built</b> 187:4 214:14 247:2 277:6 279:18 280:11 283:13 288:24 310:1 316:23 <b>burden</b> 179:22 182:13 195:11,12 242:9 244:1 <b>burdens</b> 179:14,16 182:4,7 183:4,9,19 243:23 259:13 262:14 263:9,14 264:13 <b>Burkman</b> 189:20 <b>business</b> 176:4 240:8 251:14 312:22,23 313:8 <b>businesses</b> 182:20	<hr/> <b>C</b> <hr/> <b>cables</b> 281:22 311:11 <b>Cahn</b> 251:6,9,13 267:1,2,4,9,20 269:2 271:8 274:13,19 275:9 <b>call</b> 170:21 175:13 242:10 251:8 252:19 <b>called</b> 216:10,11 218:1 278:5 323:17 <b>calling</b> 176:20 242:11 260:20 317:21 <b>calls</b> 283:7 <b>cameras</b> 321:24 <b>candor</b> 320:22 <b>cap</b> 256:10 <b>capacity</b> 277:4,8 280:17 <b>capital</b> 199:21 <b>capture</b> 211:23 <b>capturing</b> 209:7 <b>car</b> 242:11 <b>carbon</b> 201:7,8,12 <b>care</b> 221:20 260:6 280:1 <b>carefully</b> 192:6 209:2 265:20 <b>Caroline</b> 189:21 <b>cars</b> 241:22 242:4 <b>case</b> 195:15 204:20 215:2,3,4,24 217:16, 17,19 225:10 226:8,23 227:2 230:15 231:22 247:7,22 257:24 267:17,22 281:16 290:16 293:22 306:18 313:5 314:10,11 315:16 316:19 317:22 318:7,20 320:4,8 <b>cases</b> 290:18,19,23 <b>Casey</b> 168:22 <b>casino</b> 309:17	<b>catalogued</b> 261:8 <b>catastrophic</b> 200:5 <b>catch</b> 242:20,23 <b>categorically</b> 262:2 <b>categories</b> 264:7 <b>caused</b> 261:12 <b>caution</b> 202:24 316:11 <b>cautionary</b> 316:10 <b>cautious</b> 317:2 <b>cease</b> 199:18 <b>Cecile</b> 168:13 <b>CELT</b> 192:13,23,24 196:3 218:22 219:15 308:14 <b>Central</b> 206:6 <b>century</b> 203:6,11 209:15 211:7 296:7 301:9 <b>certainty</b> 208:16 317:19 <b>cetera</b> 242:24 <b>chair</b> 165:3 166:21 167:9 168:12 173:22 177:8,16,20,22 178:8, 12 183:24 184:13 185:3 188:17 190:22 191:1 196:10 203:16 204:10,13 212:16,21 214:19 221:21 222:5, 10,12 226:17 234:2,15 235:10,23 236:15,20, 24 239:8 245:5 248:8 250:9,22 251:2,7 252:22 266:1 267:1 269:20,22 270:2 273:9, 10,19,24 274:7,10 275:8 278:1,17 279:5, 16 281:2,24 284:16 285:15 289:11 301:21, 24 303:14,18 304:14, 15,24 305:3,6,20 306:8,16 320:17,23 321:4 325:9,23,24 <b>Chairman</b> 253:1 <b>challenges</b> 238:15 250:3 254:22 260:7	<b>chance</b> 188:4,5 259:2 291:3 <b>change</b> 167:5 176:6 180:11 185:23 198:13, 22 202:14 211:12 217:1 218:7 224:2 232:8,11 233:4 234:14 237:4 239:17 241:8 246:12 248:21 259:3 265:10 266:8,12 270:9 278:19 279:2 282:16 283:6 286:19,24 290:15,19 295:16 301:10 302:1 303:9 304:4,21 312:21 313:22 <b>changed</b> 195:4 217:19 218:16 228:22 229:3 230:17 314:16 <b>changing</b> 197:4 201:4 202:19 302:16 <b>channel</b> 166:24 174:4 228:10 234:13 273:17 286:9 <b>Chapter</b> 224:15 286:12 <b>characteristics</b> 281:12 <b>charging</b> 283:16,21, 24 <b>chart</b> 204:23 205:2,9 <b>charts</b> 213:6 <b>chat</b> 181:24 <b>check</b> 165:15 175:21 324:5 <b>Chelsea</b> 180:6 185:19 196:23 210:1 228:1 234:21 236:8 242:3 243:5,6,17 252:11 253:9 258:13 259:5,10, 17,18,23 260:5,8,18 261:13,22 264:10,12, 20 266:11 269:7 271:1 276:9,10 277:9,10 311:10 319:9,17 324:12,16 325:3,21 <b>Chelsea-east</b> 192:14, 19 193:2,8,15,22 194:3,14,17 195:18,22
---	--	--	---	--

196:1 216:11 220:13, 23 <b>chicken-and-egg</b> 226:4 <b>Chief</b> 180:4 <b>child</b> 179:4 <b>childhood</b> 182:8 239:24 <b>children</b> 177:2 179:10 182:23 240:7,10 242:12 <b>choosing</b> 173:4 <b>chose</b> 199:10 <b>chosen</b> 235:14 <b>chronological</b> 201:24 <b>circuits</b> 311:1 323:22 324:12,15,18 325:4 <b>circumstance</b> 231:21 249:5 313:12 316:2 <b>circumstances</b> 301:15 316:21 <b>cited</b> 206:8 230:18 <b>cities</b> 235:3 <b>city</b> 180:7,12,23 182:9, 11 184:6 185:12,21 188:15 189:1,15,17 238:23 240:18,22 247:10 260:13 284:23 285:1,2,7 286:11 287:23 291:22 292:3,7 318:13,17 <b>City's</b> 188:2 286:14 287:9 288:3 <b>City-owned</b> 176:10, 15 <b>civil</b> 187:13 198:19 206:13 252:6,7,17 256:16,17,23 257:2,13 258:5,6 266:18 268:12, 17 <b>claim</b> 193:17 195:17 221:15 <b>claimed</b> 192:14 <b>claiming</b> 192:17	319:21 <b>claims</b> 187:6 193:1,7, 15 217:24 218:5 <b>clarification</b> 274:22 <b>clarify</b> 221:17 273:6 <b>clarifying</b> 212:23 <b>Clarke</b> 189:12 <b>class</b> 177:3 <b>classifying</b> 227:3 <b>clean</b> 188:5 240:19 <b>cleaned</b> 240:17,20 <b>cleaner</b> 243:22 <b>clear</b> 172:15 202:22 207:16 218:11 232:14 237:11 258:1 264:18 275:2 285:8 289:19 315:16 <b>Clements</b> 265:19 <b>CLF</b> 251:20,21 252:6 256:17 261:5 269:23 270:3 <b>click</b> 165:9 <b>client</b> 293:2 <b>climate</b> 180:11 185:23 198:8,13,21,22 201:4 202:14 207:4,10,20 213:8 220:6 233:4 241:8,15 243:23 247:4 259:13 264:3 278:19 279:2 283:5 295:15 301:9 303:9 304:4,21 <b>clinic</b> 191:7 251:19 <b>clock</b> 183:7 <b>close</b> 180:17 240:3 247:9 251:13 280:13 <b>closely</b> 323:11 <b>closer</b> 237:14 240:6 250:4,5 <b>coastal</b> 183:3 246:17 <b>coastline</b> 212:2 246:1, 3 248:2 <b>coastlines</b> 246:14,24	<b>coincident</b> 308:24 <b>collaboration</b> 198:24 <b>Collaborative</b> 319:18 <b>colleague</b> 177:3 <b>colleagues</b> 180:1 264:17 <b>collective</b> 202:14 <b>color</b> 188:7 239:5 259:10 <b>combinations</b> 301:3 <b>combined</b> 185:9 259:17 <b>comers</b> 286:13 <b>commanding</b> 310:18 <b>commands</b> 223:23 <b>commencement</b> 285:6 298:17 <b>comment</b> 170:13 174:12,22,24 175:6,9 178:19 181:20 184:7 185:7 190:14,17 234:20,23 235:1,2,6,20 238:10 255:19,21 270:23 271:18 273:17 283:7 318:17 319:1,4, 5,11,14 326:3 <b>commented</b> 172:8 190:11 <b>commenter</b> 174:21 <b>commenters</b> 172:8 174:12 175:13,16,17, 19,21 189:19,20 190:1 <b>comments</b> 166:1 167:20 169:19,23 170:11 172:1 174:13 175:2,4,11 176:17 188:20,22 189:3,7,11, 17 190:1,4,8,18 191:17 196:8 197:22 215:1 217:23 221:17 232:24 254:1 255:16 262:15 274:5 288:13 317:13 <b>commercial</b> 195:5 283:2 <b>commission</b> 238:23	265:14,19 292:7,11 300:21,23,24 301:5 303:20 304:2,6,12 306:10,14 <b>Commissioner</b> 168:14,15,17 236:24 265:18 <b>commitment</b> 258:20 <b>committed</b> 187:23 257:12 <b>committee</b> 289:2 <b>common</b> 323:6 <b>Commonwealth</b> 167:9 179:15 194:23 199:1 220:11,18 242:1 268:3 279:20 280:9 <b>Commonwealth's</b> 170:5 172:24 262:10 <b>communicate</b> 181:23 <b>communicated</b> 214:5,15 <b>communications</b> 272:14 322:8,18 <b>communities</b> 188:7, 15 194:22 196:18 235:12 242:6 244:1 259:10,11 263:3,7,13, 15 265:22 266:5 267:23 268:4 280:9 294:7 318:22,23 319:2, 5 <b>communities'</b> 244:2 <b>community</b> 179:12,22 181:7,12 182:14,21 183:4,7,10,13,22 185:17 186:18,21 187:7,8 188:1 225:24 232:12 233:6 235:7,11, 12 236:5,7 237:6,11, 15,19 238:12 239:19 240:5,12 241:3,10,11, 15 251:12 258:2,22 260:23 261:24 262:22, 24 263:21 264:24 265:5,8 275:23 287:16 288:13,20 289:6,13,14, 17,19,20,23 290:9,15 291:2,5,6,10,18 292:23 293:5,8,12,16,17 306:5	307:4 311:9 315:19 317:24 319:9 <b>community's</b> 183:17 195:1 237:21 239:1 <b>companies</b> 279:7 323:12 <b>company</b> 176:3 204:16,18 216:15,22 222:1,4 236:21 244:18, 20 250:17,24 276:5 279:7 280:8,21 282:7 284:5,6,23,24 286:10, 17 287:6 288:18 289:7, 22 291:4 292:13 296:23 298:15 299:19 302:18 308:1,2 309:10 312:5 313:6 314:15,20, 22 320:7 321:12 323:19 <b>company's</b> 195:17 275:15 276:24 277:5, 17 280:5 284:3,15 296:3 297:8 309:16,24 <b>comparative</b> 249:10 <b>comparatively</b> 260:12 <b>compare</b> 202:11 <b>compared</b> 211:11 <b>compares</b> 300:17 <b>compel</b> 225:6 <b>compelling</b> 299:10 <b>compelling-</b> <b>circumstance</b> 313:9 <b>complain</b> 319:15 <b>complaint</b> 187:13 215:19 257:3 <b>complaints</b> 256:17 258:6 261:4 266:18 268:12,17 <b>complete</b> 217:16 230:16 252:16 258:24 322:16 <b>completed</b> 282:2 309:21 <b>completely</b> 218:17,18
---	--	--	--	--

<b>complex</b> 301:1 <b>compliance</b> 228:15 252:7 253:7 256:24 258:7,9 266:19 268:17 287:6 289:24 298:19 <b>complied</b> 252:23 292:17 304:10 <b>comply</b> 187:16 252:16 292:14 294:6 <b>compounded</b> 180:19 <b>comprehend</b> 254:5 <b>compressor</b> 265:15 <b>compromised</b> 296:20 <b>concentrating</b> 188:6 <b>concern</b> 194:3 209:23, 24 224:21 229:10 239:1,20 240:15 241:16 299:1 300:13 305:9 322:2 324:23 <b>concerned</b> 186:24 242:14 <b>concerns</b> 179:1 180:3, 5,13,19 181:9 182:15 185:14 187:12 224:5 225:17 232:10 237:3, 21 239:10,14,18 240:12 254:9 263:24 265:21 285:23 288:23 291:3 295:5,12 299:16 304:5 307:22 321:9 322:12 <b>concessions</b> 199:20 <b>concluded</b> 191:13 <b>concludes</b> 196:8 <b>concrete</b> 306:4 309:19 <b>condition</b> 286:22 287:6 288:10,24 289:24 298:13,20 306:6 <b>conditions</b> 202:20 238:14 259:9 260:15 261:13 269:6 276:15 277:7,22 278:6,10 279:10 288:16 292:10 308:21	<b>Condor</b> 180:24 183:2 211:17 241:1 295:2 306:1 <b>conductive</b> 238:7 295:4 <b>conduct</b> 169:9 283:17 <b>conducted</b> 169:12 234:17 267:19 292:3 <b>conducting</b> 171:1 <b>conduit</b> 311:12 <b>confess</b> 322:15 <b>confirm</b> 270:10,16 <b>conflicts</b> 184:12 <b>conform</b> 324:2 <b>conjunction</b> 227:17 <b>connected</b> 246:8 324:8 <b>connection</b> 241:12 <b>connectivity</b> 238:16 260:15 <b>connects</b> 324:13 <b>consent</b> 240:17 <b>consequences</b> 200:12 <b>Conservation</b> 187:9 188:24 189:10 238:22 250:20 251:3,15 292:6, 10 300:21,23 301:5 303:20 304:2,6,12 306:14 <b>conservatism</b> 296:2 <b>conservative</b> 202:8 <b>considerable</b> 290:20 291:18 307:24 <b>consideration</b> 176:2 212:9 223:17 224:11 240:10 242:19 275:20 313:15 317:13 <b>considerations</b> 248:18 <b>considered</b> 180:12 203:3 230:2 304:12,20 <b>considers</b> 318:21	<b>consistent</b> 172:24 199:20 220:21 229:13 256:11 267:9 282:10 288:9 306:15 <b>consistently</b> 253:10 269:9 <b>consolidated</b> 302:6 <b>constant</b> 180:11 <b>constituents</b> 181:20 182:4 183:20 <b>construct</b> 296:12 <b>constructed</b> 323:15 <b>constructing</b> 265:16 <b>construction</b> 206:17 285:7 287:3 298:17 <b>consulting</b> 191:8 <b>consumers</b> 296:14 308:6 <b>contamination</b> 263:5 <b>content</b> 254:5 255:8 <b>contentious</b> 320:5 <b>context</b> 205:1 257:1 268:10 <b>contingencies</b> 276:17 325:3 <b>contingency</b> 276:15 277:15,22 278:13 322:22 <b>continuation</b> 167:13 <b>continue</b> 167:19 175:1 183:17 185:14 186:14 195:7 219:10 277:14 279:3 290:11 <b>continues</b> 178:23 302:1 315:11 317:6 <b>continuing</b> 183:9 201:6 231:16 302:4 315:11 317:5 323:24 <b>continuity</b> 223:2,7 <b>continuous</b> 208:9 <b>contrast</b> 203:8 <b>contribute</b> 262:20	<b>contributing</b> 266:15 <b>contribution</b> 201:2 237:18 <b>control</b> 281:10 <b>conundrum</b> 202:6 <b>conundrums</b> 246:16 <b>conversation</b> 290:3, 13 295:18 <b>conversations</b> 269:8 <b>convey</b> 198:13 <b>convinced</b> 315:14 <b>convincing</b> 191:14,20 <b>coordinating</b> 293:7 <b>coordinator</b> 196:15 <b>COPD</b> 182:9 <b>Corine</b> 190:2 <b>corners</b> 262:13 <b>correct</b> 204:10 207:24 212:13 215:7,8,20,21 221:2 226:9 230:2,3,8 234:16 250:17 267:8 298:2 306:20 307:2 312:24 325:14 <b>correctly</b> 210:6 <b>Cosco</b> 168:19 285:15 <b>cost</b> 200:12 242:1 296:10,11 298:21 <b>cost-effective</b> 248:5 303:12 <b>costs</b> 203:11 232:17 311:7,13 <b>council</b> 292:3 <b>Councilor</b> 184:6 188:16 189:1 292:4 <b>Councilors</b> 189:16,18 <b>counsel</b> 168:19 190:15 254:10 <b>counterbalance</b> 317:9 <b>counterparts</b> 255:22 <b>countless</b> 180:1 181:1	<b>country</b> 242:21 <b>counts</b> 323:24 <b>couple</b> 210:8 214:21 235:6 245:21 291:9 321:1,8 <b>court</b> 311:24 <b>courts</b> 313:10 <b>cover</b> 228:6 <b>covered</b> 242:13 <b>coverup</b> 245:3 <b>COVID</b> 182:11 221:4 314:3 <b>COVID-19</b> 169:10 194:21 195:3 219:19 220:2 259:18 260:21 265:24 268:2 <b>create</b> 276:12 286:3 <b>creating</b> 183:2 <b>creek</b> 180:6,18 185:19 196:23 210:1 211:16 236:9 243:17 271:2 305:20 311:10 <b>criteria</b> 202:9,11 280:12 311:3 <b>critical</b> 169:7 200:1 201:18 203:4 230:13 246:24 <b>criticism</b> 293:14 <b>critique</b> 205:2 288:15 <b>critiques</b> 207:18 <b>cross-examination</b> 199:22 <b>crossroads</b> 187:22 <b>crow</b> 236:8 <b>crucial</b> 193:24 194:20 <b>crystal</b> 219:23 <b>cumulative</b> 259:12 262:17,19 263:8,13 264:6,13 <b>cure</b> 258:9 <b>curious</b> 303:23
---	---	--	---	---



<b>current</b> 173:5 192:4 219:1 261:12 264:11 265:9  <b>curve</b> 208:10  <b>custom-built</b> 166:6  <b>customer</b> 196:5 221:12 286:8  <b>customers</b> 230:21 283:3 286:4 296:11 297:20 303:7 307:23 311:7 312:2 315:7 323:5  <b>cutoff</b> 199:13 213:7  <b>cutoffs</b> 213:18  <hr/> <p style="text-align: center;"><b>D</b></p> <hr/> <b>daily</b> 210:18 237:16 261:11  <b>damaged</b> 303:5  <b>Dan</b> 189:20  <b>Daniels</b> 190:10,19 203:20 204:5 215:11 223:1,2,11 224:9 226:5,10,15,20 227:6 228:24 230:3,8,16 232:13 233:13,17 234:1,3,9,22 237:2,9 238:17 239:9 248:22 264:17 274:15,18 317:21 318:9  <b>data</b> 186:23 187:8 192:12,18,23 193:6,18 195:21,23 196:3 215:1, 6,20 216:2 217:1,21,22 218:1,4,6 221:14 224:6,22 225:4,10,14 226:2 229:4,13 244:18, 22 265:9 302:16 306:23 312:13,14  <b>date</b> 167:17 182:16 213:3,24 214:2 256:2  <b>dates</b> 206:16 213:7  <b>dating</b> 206:10  <b>David</b> 285:11  <b>day</b> 244:10,13,18 263:7 271:23 272:6	278:4 297:1 298:2  <b>days</b> 255:13 278:20 279:1,14 298:16  <b>deadline</b> 189:24 255:15  <b>deadly</b> 187:24  <b>deal</b> 308:9  <b>dealing</b> 277:12 299:1  <b>dealt</b> 179:13 183:5 276:17  <b>Dear</b> 185:5  <b>Deborah</b> 189:21  <b>decade</b> 187:20 247:21 283:9  <b>decades</b> 197:5 210:11 248:3  <b>December</b> 167:14,15 176:8 185:14 191:16 192:1 194:8 195:9 252:21 256:4 257:19 259:20 260:17 261:10, 23 262:6 272:21 313:3  <b>decent</b> 250:1  <b>deciding</b> 246:17  <b>decimated</b> 243:6  <b>decision</b> 167:23 170:1, 2,3 176:2,19,22 185:8 188:11,23 191:18 197:23 201:17 206:2 209:22 217:18,21 228:17 235:21 237:2 248:15 252:24 253:2, 14 255:10,13 256:20 258:12 261:9 266:13 267:21 268:15,19 272:13,24 273:1 276:2 285:6,18,20 286:22,23 287:2 288:8 291:20 292:1 294:16 298:14 315:22 318:2 320:9 325:17  <b>Decisionmakers</b> 202:20  <b>decisionmaking</b> 187:19 259:15 266:17	<b>decisions</b> 202:22 263:1 312:18  <b>declaration</b> 169:15  <b>decline</b> 186:24  <b>declined</b> 256:21  <b>declining</b> 195:19 220:1,15  <b>decrease</b> 218:20 317:15  <b>decreases</b> 229:19 308:14  <b>dedicated</b> 293:2,3 311:23,24  <b>deemed</b> 215:13 253:22  <b>deep</b> 187:24  <b>Deer</b> 310:11 311:22  <b>defer</b> 249:9  <b>define</b> 314:13  <b>definition</b> 194:6 227:21  <b>degree</b> 278:20 289:17 290:18 303:9  <b>degrees</b> 201:14 278:24  <b>delay</b> 267:6 268:10 269:18  <b>delayed</b> 272:6  <b>delaying</b> 268:16  <b>delegated</b> 256:2  <b>deliberate</b> 167:22  <b>deliberately</b> 181:13  <b>deliberations</b> 169:24 170:3 176:18 285:21  <b>delivered</b> 264:1  <b>demand</b> 187:1 241:24  <b>demonstrate</b> 315:18  <b>demonstration</b> 225:15 231:20  <b>denied</b> 253:21  <b>dense</b> 185:20  <b>densely</b> 180:21 243:1,	9  <b>deny</b> 226:1  <b>Department</b> 168:13, 14,16,18 169:6 174:3 187:14 199:3 262:8  <b>Departments</b> 257:6  <b>depending</b> 210:14 211:3  <b>depends</b> 281:7  <b>deputy</b> 168:16 169:5 262:7,12  <b>describe</b> 208:21 289:14  <b>describes</b> 197:23 323:18  <b>description</b> 274:23  <b>design</b> 201:22 202:9 205:14 206:17 207:6, 13 238:17,18,21 281:3 289:4 290:8 296:3 297:11,12 298:4 299:23 300:5 301:20 304:18 306:13  <b>design-flood</b> 211:10  <b>designated</b> 196:24 240:23  <b>designed</b> 181:22 239:5 241:8 321:17  <b>designee</b> 168:17,19  <b>designing</b> 206:18 287:13 299:20  <b>desired</b> 165:9 173:2  <b>detail</b> 197:24 298:18  <b>detailed</b> 262:3 292:6  <b>details</b> 236:18  <b>determination</b> 229:5 230:10,18 232:4 234:6, 18  <b>determine</b> 254:17 301:2  <b>determined</b> 231:24 267:16  <b>determines</b> 232:5	<b>determining</b> 275:17  <b>devastating</b> 263:10  <b>devastation</b> 194:21  <b>develop</b> 196:1 304:9  <b>developed</b> 275:16 286:24 289:3  <b>developing</b> 216:14 283:7  <b>development</b> 168:21 246:18  <b>device</b> 294:22  <b>diagram</b> 205:23 206:1  <b>dial</b> 166:12 172:5,9 173:17  <b>dial-in</b> 165:20,24 166:1,3,12 173:7,12,16  <b>dialing</b> 172:3,5  <b>dialup</b> 166:9  <b>Didomenico</b> 189:14  <b>differ</b> 318:11  <b>difference</b> 247:17 282:17  <b>differences</b> 295:3  <b>differential</b> 256:6  <b>difficult</b> 172:18,19 181:20 243:12 260:16 269:6  <b>difficulties</b> 170:21 171:7,14 226:18  <b>digital</b> 269:5  <b>diminish</b> 290:20  <b>diminishing</b> 314:7  <b>dioxide</b> 201:7,8,12  <b>direct</b> 227:8 245:18  <b>directed</b> 251:14 302:18  <b>direction</b> 218:16 256:13  <b>directives</b> 292:17  <b>directly</b> 180:22 308:12 311:12
---	--	--	---	--

<p><b>director</b> 168:23 169:5 199:21 251:17 262:7, 12</p> <p><b>directs</b> 284:22</p> <p><b>disadvantaged</b> 265:23</p> <p><b>disaster</b> 182:19</p> <p><b>disconnected</b> 171:5</p> <p><b>discovery</b> 215:10 225:1,3</p> <p><b>discrepancy</b> 194:16</p> <p><b>discretion</b> 235:15,18</p> <p><b>discrimination</b> 187:12</p> <p><b>discussed</b> 199:16</p> <p><b>discussion</b> 192:2 223:9 224:8 226:19 232:20 245:7 275:11 285:17</p> <p><b>discussions</b> 233:18 284:23 285:5 286:11 322:11</p> <p><b>disparities</b> 256:5</p> <p><b>disparity</b> 256:8</p> <p><b>display</b> 175:20</p> <p><b>displayed</b> 170:23</p> <p><b>disproportionate</b> 179:14 183:18</p> <p><b>disproportionately</b> 182:6 186:8</p> <p><b>disputants</b> 234:12</p> <p><b>disputed</b> 317:22</p> <p><b>disputes</b> 197:2 227:20</p> <p><b>disruptions</b> 261:11</p> <p><b>disruptive</b> 253:23</p> <p><b>distinction</b> 227:2</p> <p><b>distributed</b> 229:17 241:24 255:11</p> <p><b>distribution</b> 280:10 281:22 308:2 310:23, 24 311:1 323:20 324:12,15,18 325:4,20</p>	<p><b>distribution-level</b> 303:16</p> <p><b>diversifying</b> 182:24</p> <p><b>divide</b> 269:5</p> <p><b>docket</b> 167:6 185:9 195:10 225:14 230:1,4, 6</p> <p><b>document</b> 206:2</p> <p><b>documented</b> 253:12</p> <p><b>documents</b> 272:12</p> <p><b>dominated</b> 290:12</p> <p><b>door</b> 293:9</p> <p><b>door-to-door</b> 294:1</p> <p><b>DOT</b> 206:5 207:9</p> <p><b>doubt</b> 295:11</p> <p><b>doubts</b> 181:2</p> <p><b>Downs</b> 309:14,16,20, 22 310:6,10 311:4 313:18 317:8</p> <p><b>dozen</b> 291:9</p> <p><b>DPU</b> 188:10 323:20</p> <p><b>DPU/EFBSB</b> 166:24</p> <p><b>DPW</b> 288:1</p> <p><b>dramatic</b> 211:11 283:8</p> <p><b>dramatically</b> 200:21 209:19</p> <p><b>drastic</b> 219:20</p> <p><b>dress</b> 244:12</p> <p><b>driving</b> 218:20 219:4 283:19</p> <p><b>Dubois</b> 189:15</p> <p><b>duct</b> 311:11</p> <p><b>due</b> 167:17 169:10 180:11 182:7 197:3 231:24 315:24</p> <p><b>dwarf</b> 315:20</p>	<p>179:6 180:21 191:15 196:19 276:10,12 285:1</p> <p><b>Eagle-chelsea</b> 167:5</p> <p><b>earlier</b> 187:9 228:21 242:17 243:14 244:9 262:23 270:6 299:12 311:3</p> <p><b>early</b> 200:14 284:15 291:7 307:19</p> <p><b>easement</b> 285:2</p> <p><b>easily</b> 246:21</p> <p><b>east</b> 176:11,16 178:21, 22 179:11 180:2,10,21 181:4,7 183:22 185:19 186:19 187:21 191:15 196:19 203:12 211:20 218:8 223:24 224:13, 16 226:24 227:5 228:3 232:6,21,22 234:11,17 236:9 242:3 243:3,4 245:16 247:3,17 249:17 252:10 253:9 258:10,13 259:5,10,16, 18,21 260:3,7,10,18,21 261:2,13,22 264:10,12, 20 265:7 266:11 269:7 276:10,11,21,23 277:13,14 280:24 281:23 285:1 287:11 307:10 310:5 311:17 312:8 314:7 317:24 319:8,20 324:7,8,14, 18,22 325:1,5,6,12,18</p> <p><b>eastern</b> 240:9 285:22 286:16 287:19 288:7</p> <p><b>easy</b> 297:1</p> <p><b>ebb</b> 313:24 314:12</p> <p><b>echoed</b> 262:15</p> <p><b>ecology</b> 246:10</p> <p><b>economic</b> 168:21 241:6 243:12 261:12</p> <p><b>Economics</b> 191:7</p> <p><b>edge</b> 180:20 211:15</p> <p><b>edges</b> 247:18</p> <p><b>Edwards</b> 189:1,16,18 292:4 293:15</p>	<p><b>EEA</b> 256:24 257:9 258:5 262:1 267:19,21 269:9</p> <p><b>effect</b> 228:16 284:8,11 303:21 312:17 314:5 317:17</p> <p><b>effects</b> 179:11 182:22 200:6 239:20 284:9 299:21 301:9 308:13 315:21</p> <p><b>efficacy</b> 262:9</p> <p><b>efficient</b> 280:6</p> <p><b>effort</b> 275:20</p> <p><b>efforts</b> 182:21 183:7, 10</p> <p><b>EFBSB</b> 167:6 170:19 176:4 183:21 185:9 188:10 191:13,17 197:9 202:23 203:14 260:24 261:3,17</p> <p><b>EJ</b> 261:24 262:1,4,13, 20</p> <p><b>elaborate</b> 237:7</p> <p><b>elapsed</b> 218:15</p> <p><b>Eldridge</b> 189:14</p> <p><b>elected</b> 189:10 251:12 265:4</p> <p><b>electric</b> 176:3 187:1 192:14,19 193:22 194:4,9,12 219:1,2,18, 21 220:9 229:7 232:7 241:22 242:4 281:11 282:24 283:5,8,21,23 284:1,10 317:1</p> <p><b>electrical</b> 180:14 185:19,24 186:6 242:4 243:16 245:15 282:8</p> <p><b>electricity</b> 181:4 187:5 278:9</p> <p><b>electrification</b> 194:9, 13,15 196:4 220:9,10, 16 221:5,12 229:21 230:1 241:21 282:3,14, 19,24 283:4 284:7</p> <p><b>electrifying</b> 220:19</p>	<p><b>electromagnetic</b> 239:18</p> <p><b>electronic</b> 174:8 189:6</p> <p><b>element</b> 181:24</p> <p><b>elephant</b> 248:23</p> <p><b>elevated</b> 247:14</p> <p><b>elevation</b> 201:22,24 207:7,13 211:10 297:13 300:5 305:24</p> <p><b>elevations</b> 201:19 202:3 205:15 214:8</p> <p><b>elevationwise</b> 247:16</p> <p><b>eliminated</b> 266:5</p> <p><b>email</b> 184:22 255:11</p> <p><b>embrace</b> 291:2</p> <p><b>emergency</b> 169:11,16 198:7 266:20 267:8 298:21 302:14,20</p> <p><b>emergent</b> 298:14</p> <p><b>emissions</b> 262:21</p> <p><b>emphasizing</b> 222:20</p> <p><b>employed</b> 260:4</p> <p><b>employs</b> 323:19</p> <p><b>EMR</b> 239:21</p> <p><b>enacted</b> 304:1</p> <p><b>Enbridge</b> 265:16</p> <p><b>encompass</b> 236:2</p> <p><b>encroaching</b> 247:6</p> <p><b>end</b> 195:11 203:6,10 206:5 207:23 208:2,6 209:11,15 211:7 213:12,14 238:19 242:7 244:13,17 259:1 272:1,4 296:6 301:8,20</p> <p><b>endeavor</b> 249:23</p> <p><b>ends</b> 167:23</p> <p><b>energy</b> 167:3,8,10 168:11,16 169:5,6 176:4 185:8 187:15 189:8 191:10 195:5,6 219:21 259:12 262:8 265:13 308:6</p>
--	--	--	--	--

<b>energy-use</b> 195:4 <b>enforce</b> 252:7 257:2 <b>enforcement</b> 256:21 <b>engage</b> 261:15 292:22 <b>engaged</b> 181:17 286:10 <b>engagement</b> 237:6 238:12 288:16 289:13 293:19 <b>engagements</b> 288:13 <b>engineering</b> 199:21 <b>engineers</b> 198:19 206:14,18 299:7 <b>England</b> 186:23 192:13 193:11,13 198:18 206:21 308:23 323:11 <b>England's</b> 186:10 <b>English</b> 165:8,9,11 166:2,22 172:13 173:2, 4 174:2,6 187:18 205:11 252:4,11 254:3 257:16 259:12 273:1 <b>English-language</b> 255:14 <b>English-speaking</b> 255:22 <b>English-to-spanish</b> 172:22 <b>enhances</b> 220:2 <b>ensure</b> 178:18 182:14 252:10,13,15 253:15 257:15 303:5 324:2 <b>ensuring</b> 187:16 253:24 293:10 297:10 308:5 <b>enter</b> 166:13 173:17 284:23 <b>entering</b> 247:19 <b>entire</b> 172:12 203:10 <b>entitled</b> 315:23 <b>entity</b> 254:17 <b>environment</b> 191:10	299:3 <b>environmental</b> 167:8 168:18 179:12,14,16, 22 182:4,13,18 183:8, 13,16,19 186:9 187:11, 15,23 188:6,8,14 196:17 232:16 239:11 240:14 244:3 248:18, 20 251:14,18 257:12 259:13 260:23 261:21 262:10,12 263:5,8,19, 23,24 264:4,19 265:12 266:3,7,16 292:15 293:3 294:7 <b>EPA</b> 256:20,23 257:3 <b>equal</b> 187:16 286:6 <b>equally</b> 201:6 220:17 <b>equals</b> 217:2,4 <b>equipment</b> 279:24 280:4,5 281:8,10 287:15 298:7 300:9,14 301:4,19 303:3 322:8 <b>equity</b> 191:10 <b>Eric</b> 189:19 <b>Erika</b> 251:19 <b>erosion</b> 250:1 <b>err</b> 202:23 <b>escalating</b> 297:4 <b>Essaibi-george</b> 189:16 <b>essential</b> 200:7 <b>essentially</b> 192:21 205:21 218:9 223:12 224:4 225:23 228:10 276:23 278:7 281:20 283:10 286:3 325:19 <b>established</b> 219:14 278:7 <b>esthetic</b> 294:22,24 305:17 <b>esthetics</b> 237:4,13,18 238:3 244:9 288:14 289:5 290:6 294:24 <b>estimates</b> 284:7,15 296:8 297:14	<b>Evans</b> 184:13,15 185:6 191:4 234:16,19 235:16 236:13 252:24 253:3 261:23 270:4,13 273:8 313:7 325:10,22 <b>Evans's</b> 274:23 <b>event</b> 197:19 <b>events</b> 180:9 200:6 265:21 301:3 313:4 <b>eventually</b> 307:20 <b>Everett</b> 319:10 <b>Eversource</b> 170:19 176:4,5,7,12 185:15,18 186:20 187:2,6 188:9, 23 189:7 191:13,19 192:13,17 193:1,7,15 195:16,24 197:9 198:5 199:10,17,22,23 201:21 202:8 203:8 213:9 216:1,6 217:24 218:5,12 225:3 228:11 230:24 231:6 233:12 234:12 238:18 240:19 244:21 249:2 256:3 275:10,24 310:4,16 322:20 325:12 <b>Eversource's</b> 167:4 191:22 192:9 193:6,18 194:5,12 195:24 196:22 199:14 203:14 217:6 219:2 293:10 308:16 <b>everyone's</b> 171:23 <b>evidence</b> 191:14,20 193:17 315:15 317:11 <b>evidentiary</b> 237:23 238:4 254:8,20 271:4, 6,19,22 272:2,9 <b>EVS</b> 282:13 283:5 <b>exacerbated</b> 260:8 <b>exacerbates</b> 186:18 <b>examine</b> 286:1 <b>exceed</b> 277:15 <b>exception</b> 228:5 290:22 320:12 <b>exceptional</b> 313:12	<b>exchange</b> 252:19 253:13 284:20 286:16 <b>excluded</b> 253:10 259:3 <b>excuse</b> 176:24 289:21 <b>executive</b> 168:20 187:15 265:12 <b>exist</b> 304:11 319:14,17, 18 <b>existed</b> 277:9 319:22 <b>existing</b> 261:20 264:4 277:5,8 278:16,22 311:11 <b>exit</b> 281:21 <b>expand</b> 309:8 <b>expect</b> 210:10 220:3 302:2 314:3,6 <b>expectation</b> 280:5 <b>expectations</b> 194:12 196:3 <b>expected</b> 182:6 194:1 279:18 <b>expecting</b> 179:4 282:7 <b>expensive</b> 311:5 <b>experience</b> 171:13 182:8 197:7 199:14 322:16 <b>experienced</b> 230:22 261:13 <b>experiencing</b> 250:1 <b>expert</b> 186:23 191:9 229:2 320:6 <b>expertise</b> 196:17 255:2 <b>experts</b> 199:2 <b>explain</b> 194:16 205:22 226:13 310:10 324:8 <b>explains</b> 213:21 <b>explanation</b> 220:23 <b>explode</b> 242:15,23 <b>explosion</b> 186:7	<b>exposed</b> 187:24 <b>exposure</b> 239:20 240:1 <b>expressed</b> 185:11 <b>extend</b> 208:12 209:5 <b>extended</b> 255:19 296:16 <b>extension</b> 240:24 <b>extensive</b> 187:6 <b>extent</b> 210:22 211:8 <b>extraneous</b> 231:24 <b>extreme</b> 197:4 <b>extremely</b> 243:12
<b>F</b>				
				<b>face</b> 202:7 213:15 247:20 257:5 259:12 263:8 293:8 <b>faced</b> 256:9 <b>facilitate</b> 258:16 <b>facilities</b> 167:3,10 168:11 185:8 277:19 280:1 281:14 283:15, 17,24 295:8 296:12,15 307:18 309:8 316:23 318:21 323:6 <b>facility</b> 227:11,12,16, 19,22,24 247:7 265:17 281:1 287:18 288:5 289:9 290:2,3 295:9 297:9 299:20 301:14 306:14 311:20,24 315:5,11 318:18 319:3 320:7,16 321:14,17 <b>facility's</b> 287:13 <b>facing</b> 202:15 203:5 246:16 316:18 <b>fact</b> 180:20 199:16 200:1,18,21 219:16 229:7,8 231:13 245:2 272:6 288:6 309:1 319:12 <b>fact-specific</b> 235:19

<b>factor</b> 180:12 217:7 228:16 290:23 304:20	202:4 203:6,9 206:15, 23 207:15 208:4 210:1, 2,14,16 211:6,9 213:12 222:19 248:3 280:20 297:5 300:2,6,8,10,12, 16 301:5 306:4 309:23	<b>Fish</b> 228:10 234:13 273:17 286:9	<b>follow</b> 207:17 245:22 269:23 270:5	188:24 189:10 250:20 251:3,15 298:4,10 300:11
<b>factors</b> 232:1 317:16		<b>fixed</b> 212:7	<b>followup</b> 234:3 278:2 301:22 325:10	<b>foundations</b> 295:20, 23 296:10 297:24 301:6
<b>facts</b> 320:8		<b>flat</b> 193:10 195:19 218:17 220:1,15	<b>food</b> 260:7	<b>four-hour</b> 254:5
<b>Fahrenheit</b> 201:14	<b>FEMA</b> 198:7,9,12,20 206:14,21	<b>flattening</b> 308:15	<b>foot</b> 186:1,7 206:22 207:14 297:5 300:3,8, 17	<b>fourth</b> 200:18 206:9 227:7,9 255:9
<b>failed</b> 187:11	<b>fence</b> 295:4	<b>flexibility</b> 202:21	<b>footage</b> 299:2,4	<b>frame</b> 296:16
<b>failing</b> 187:16	<b>fences</b> 295:7	<b>flexible</b> 288:19	<b>footing</b> 298:1	<b>frankly</b> 316:14 323:7
<b>failure</b> 223:22 224:13 228:8 256:12	<b>fencing</b> 290:7 321:15	<b>flies</b> 236:9 257:4	<b>footings</b> 295:20,23 296:10 298:4,11	<b>Fraser</b> 168:14 269:21, 22 270:3 273:8,11 320:24 321:1,6 322:3, 19 324:4 325:7
<b>failures</b> 256:16	<b>FERC</b> 265:17,18 266:6 323:11	<b>flood</b> 180:7,10 185:22 196:24 197:3,10,21 198:5,7,9,11,12,16,20 199:2 201:19,22 202:1, 10 205:15 206:8,14 207:7,13,20 210:21,22 211:8 213:9 232:10 242:24 249:10,11 295:13 296:24 297:12 299:4 305:12	<b>forces</b> 219:4	<b>fraud</b> 316:15
<b>faintly</b> 165:18	<b>FERC's</b> 266:1		<b>forecast</b> 192:12,18,23 196:2,3 207:22 217:3 218:12 219:5 220:7 275:15 277:15,20 278:6 308:14,18 314:1 315:10	<b>freeboard</b> 300:3,17
<b>fair</b> 179:23 223:21 225:8,20 244:6 279:9 281:6 296:14 320:15	<b>fewer</b> 186:12	<b>flood-based</b> 198:17	<b>forecasted</b> 193:10	<b>frequencies</b> 322:13
<b>fairly</b> 211:16 279:21 299:9 317:4,22 318:2 319:19,23	<b>fiberglass</b> 306:4	<b>flood-event</b> 209:14	<b>forecasting</b> 195:24	<b>frequented</b> 180:24
<b>fairness</b> 225:18	<b>field</b> 180:17 293:6	<b>flood-related</b> 250:3	<b>forecasts</b> 218:13,15, 16,18,22 219:15 220:1 229:19 276:14 284:3,5 306:22,24 308:12 320:4	<b>Friday</b> 251:14
<b>fall</b> 231:10	<b>fields</b> 322:5,7,14	<b>flood-resistant</b> 206:16	<b>foreclose</b> 287:22	<b>front-facing</b> 291:17
<b>families</b> 263:9	<b>fighting</b> 187:20	<b>flood-risk</b> 199:4 206:7 207:9	<b>foreseeable</b> 301:9 308:3,9 324:23	<b>FTES</b> 314:10
<b>family</b> 179:5	<b>file</b> 174:8 189:6 298:16 323:21	<b>flooding</b> 180:8 185:21 197:7 198:10 209:23 239:12 241:9 245:7 246:20 247:15 294:21 298:16,22 303:17	<b>form</b> 268:7	<b>fuel</b> 186:10 242:24 243:16 250:4 283:15
<b>fast</b> 172:17 320:18	<b>filed</b> 187:10,13 227:17 228:5,7 256:17 291:8 306:21		<b>formal</b> 319:17	<b>fuels</b> 282:21
<b>faster</b> 220:20	<b>final</b> 224:11 255:16 268:19 272:24 273:1 284:21 285:6 287:2 315:23 316:12,20	<b>floodplain</b> 303:17	<b>format</b> 181:21,24	<b>full</b> 170:8 223:21 225:20 320:15
<b>fault</b> 217:18 324:17	<b>finality</b> 223:17 224:10 315:24	<b>floods</b> 300:16 304:22	<b>forward</b> 179:21 208:14 220:21 225:9 232:2 240:19 267:7 279:2,6	<b>fully</b> 182:15 317:5 320:5
<b>faults</b> 307:21 325:5	<b>finalized</b> 312:19	<b>floodwaters</b> 297:15	<b>fossil</b> 282:21	<b>function</b> 305:14
<b>favorable</b> 287:16 292:10	<b>finally</b> 170:2 175:11 176:19 241:19 272:23	<b>flow</b> 313:24 314:12	<b>foster</b> 236:13 238:7 274:23	<b>functioning</b> 187:4
<b>favorably</b> 300:17	<b>find</b> 174:9	<b>fluctuations</b> 313:13, 24 316:16	<b>fought</b> 185:15	<b>fundamental</b> 299:23
<b>feature</b> 175:16 178:6	<b>finding</b> 308:18 317:12	<b>focus</b> 282:19 290:4	<b>found</b> 286:1	<b>fundamentally</b> 252:8
<b>February</b> 167:16 224:2,18 258:17	<b>fine</b> 223:16 249:21	<b>focusing</b> 248:15 284:24	<b>foundation</b> 187:10	<b>futile</b> 225:9
<b>Federal</b> 175:7 177:23 178:5 187:10,22 198:7 199:2 201:20 252:17 253:12 257:1,11,15 265:13 267:10 323:9 324:1	<b>finish</b> 171:22	<b>folks</b> 177:9 184:20 242:14 243:3,4,8 244:20 282:4 294:8		<b>future</b> 183:11 185:22 194:10 195:7 202:10, 17 208:11,12 212:9 219:24 241:17 297:22 304:8 324:23
<b>feel</b> 182:16 243:17	<b>Finkel</b> 189:20			<b>fuzzy</b> 243:18
<b>feeling</b> 242:8	<b>fire</b> 242:20,23			
<b>feels</b> 181:12	<b>fired</b> 283:11			
<b>feet</b> 176:14 201:15	<b>fires</b> 243:6			

G	globally 200:16	319:13 321:9	harden 233:4	heart 306:18
<b>gain</b> 265:2	<b>Globe</b> 165:10 173:3	<b>Greenroots's</b> 237:9	<b>hardest</b> 194:22	<b>heating</b> 282:22,23 284:7
<b>garden-variety</b> 313:13 316:16	<b>good</b> 165:3 166:5 167:2 178:13 191:3 196:12 205:1 222:9,13 244:10 246:5 248:3 251:10 267:4 274:6 278:21 282:18 303:24 316:5	<b>grew</b> 178:22 182:17	<b>harm's</b> 246:6	<b>heavy</b> 263:3 282:13
<b>Gary</b> 168:16	<b>government</b> 186:20 257:15	<b>grid</b> 324:9	<b>harmed</b> 200:11	<b>height</b> 209:18 210:13 211:24 212:1 294:16 296:4 300:9 301:5
<b>gas</b> 282:24 283:14	<b>Governor</b> 169:15	<b>groundbreaking</b> 264:9	<b>hazards</b> 186:14	<b>held</b> 167:14 169:13 181:19 224:1,17 226:24 227:1,10,15,24 234:21 235:14,20 238:18 291:22
<b>gasoline-</b> 283:10	<b>governor's</b> 264:3	<b>group</b> 191:9 198:23	<b>Hazle</b> 174:18,20 204:22 205:8,14 212:16,20	<b>hell</b> 259:18
<b>gasoline-powered</b> 283:11	<b>grade</b> 300:7	<b>groups</b> 189:4	<b>head</b> 219:6	<b>helpful</b> 222:24 236:18 248:9
<b>gates</b> 322:1	<b>graduate</b> 196:15	<b>grow</b> 179:10 193:2,8	<b>health</b> 188:1 239:20, 22,23 240:15 241:15 242:7 260:6 261:12 263:6,9 266:20	<b>helping</b> 178:17 221:16
<b>gathered</b> 215:23	<b>graphic</b> 212:17	<b>growing</b> 179:8 193:4	<b>healthier</b> 183:10	<b>heretofore</b> 300:20
<b>gave</b> 204:19 217:2 299:9	<b>grapple</b> 307:11	<b>growth</b> 193:10 194:17	<b>healthy</b> 244:11,12,14	<b>high</b> 195:11 197:20 207:23 208:2,6 210:9, 17,20 211:1,16 214:6 223:15,20 224:23 225:18 239:21 245:22 248:3 259:23 301:7 307:20 322:1 323:23
<b>general</b> 168:19 211:21 239:15 240:4 245:16 246:13 290:12 314:10	<b>grasping</b> 231:15	<b>guess</b> 217:13 245:9,20	<b>hear</b> 165:11,17,18,22 170:9,12 172:6 173:5 174:14,23 178:10 179:2 184:3 299:11	<b>high-end</b> 200:5
<b>generally</b> 236:1 279:7	<b>great</b> 177:16 205:12 216:13 222:5 324:19	<b>guidance</b> 198:18	<b>heard</b> 172:7 176:17 181:21 182:15 192:1,6 194:8 195:9 228:20 239:10 242:17 243:14 252:13 253:17 257:16 262:23 264:24 274:24 289:19 293:14 312:12 319:24 320:1	<b>high-stakes</b> 197:13 199:24
<b>generated</b> 187:5	<b>greater</b> 201:2 277:11	<b>guess</b> 217:13 245:9,20	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>generating</b> 200:15 241:13,17	<b>greatest</b> 268:2	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>generation</b> 229:17	<b>greatly</b> 171:22	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>generations</b> 183:11	<b>green</b> 186:12 246:23	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>generators</b> 278:14	<b>Greenberg</b> 190:2	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>gently</b> 174:15	<b>Greene</b> 166:19 168:23	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>geo-information</b> 196:15	<b>Greene</b> 166:19 168:23 177:10,18,21 178:2,4, 17 184:14,23 186:2 203:24 205:4,13 221:19 222:7,8 234:15 235:24 250:14,18 251:1 273:11,13,21 274:3,6 313:7	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>geographical</b> 282:5, 16	<b>Greene</b> 166:19 168:23 177:10,18,21 178:2,4, 17 184:14,23 186:2 203:24 205:4,13 221:19 222:7,8 234:15 235:24 250:14,18 251:1 273:11,13,21 274:3,6 313:7	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>geographically</b> 282:9	<b>Greene</b> 166:19 168:23 177:10,18,21 178:2,4, 17 184:14,23 186:2 203:24 205:4,13 221:19 222:7,8 234:15 235:24 250:14,18 251:1 273:11,13,21 274:3,6 313:7	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>geography</b> 196:14	<b>Greene</b> 166:19 168:23 177:10,18,21 178:2,4, 17 184:14,23 186:2 203:24 205:4,13 221:19 222:7,8 234:15 235:24 250:14,18 251:1 273:11,13,21 274:3,6 313:7	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>give</b> 165:13 195:14	<b>Greene</b> 166:19 168:23 177:10,18,21 178:2,4, 17 184:14,23 186:2 203:24 205:4,13 221:19 222:7,8 234:15 235:24 250:14,18 251:1 273:11,13,21 274:3,6 313:7	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>giving</b> 178:15 223:8 286:15	<b>Greenroots</b> 177:5 187:9 188:23 189:8 190:9,15,17 195:14 203:21,23 221:23 222:3 225:3 236:20 237:3 239:9 248:12 249:8 250:13,16 252:6 253:18 254:6,10 256:16 261:5 265:3 266:10 295:6 308:13 310:8 312:12 317:10	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>Glick</b> 266:1	<b>Greenroots</b> 177:5 187:9 188:23 189:8 190:9,15,17 195:14 203:21,23 221:23 222:3 225:3 236:20 237:3 239:9 248:12 249:8 250:13,16 252:6 253:18 254:6,10 256:16 261:5 265:3 266:10 295:6 308:13 310:8 312:12 317:10	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>glitches</b> 171:15	<b>Greenroots</b> 177:5 187:9 188:23 189:8 190:9,15,17 195:14 203:21,23 221:23 222:3 225:3 236:20 237:3 239:9 248:12 249:8 250:13,16 252:6 253:18 254:6,10 256:16 261:5 265:3 266:10 295:6 308:13 310:8 312:12 317:10	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
<b>global</b> 201:13 313:4	<b>Greenroots</b> 177:5 187:9 188:23 189:8 190:9,15,17 195:14 203:21,23 221:23 222:3 225:3 236:20 237:3 239:9 248:12 249:8 250:13,16 252:6 253:18 254:6,10 256:16 261:5 265:3 266:10 295:6 308:13 310:8 312:12 317:10	<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1
		<b>guidance</b> 198:18	<b>hearing</b> 172:24 181:18	<b>high-water</b> 210:1

<b>historically</b> 179:13 215:23	<b>I</b>	308:7	194:9 202:4 210:3 220:9 283:8,22 284:12, 14 309:6	<b>initially</b> 187:2 206:22 271:21
<b>history</b> 188:5 201:10 243:5 253:6 258:21 318:19	<b>ice</b> 201:3 302:3	<b>impose</b> 233:6		<b>initiate</b> 188:12
<b>hit</b> 194:22 214:2	<b>icon</b> 165:10 172:10 173:3	<b>imposed</b> 290:1	<b>increased</b> 180:10 194:12 257:20 278:18 279:3	<b>initiated</b> 256:23
<b>hold</b> 174:18,20 220:22 223:23 224:13 226:14, 17 227:4,23 228:3 234:10 235:2,6 238:17 261:1 289:22 319:7	<b>idea</b> 222:9 246:5,13	<b>impossible</b> 260:16	<b>increases</b> 196:4,5 209:8 310:4	<b>injustices</b> 186:9 244:4
<b>holding</b> 186:10 234:4 259:8 317:24	<b>ideal</b> 210:5 233:11	<b>improvement</b> 238:12	<b>increasing</b> 229:16 312:9	<b>inland</b> 210:23,24 247:11
<b>holes</b> 247:4,18	<b>ideally</b> 280:19	<b>improvements</b> 181:5 229:16 237:5 258:8 288:6	<b>increasingly</b> 197:2	<b>input</b> 181:22 238:2 288:20 289:4,23 290:1, 6 291:13 293:12 300:23 306:5
<b>holistic</b> 268:14	<b>identification</b> 264:7	<b>improving</b> 183:1	<b>increments</b> 229:8	<b>installation</b> 285:3
<b>holy</b> 259:18	<b>identified</b> 172:20	<b>inability</b> 255:7	<b>incumbent</b> 280:21	<b>instance</b> 290:11 296:9 297:2 306:19 313:17
<b>home</b> 179:4 260:5 283:20	<b>identify</b> 178:6	<b>inadequate</b> 254:22 271:12 277:20	<b>indicating</b> 204:3 209:4	<b>instances</b> 295:7 307:21 316:14
<b>homes</b> 243:10 283:21	<b>ignoring</b> 186:16 197:13	<b>inappropriately</b> 197:12 223:14	<b>indication</b> 230:23	<b>instituted</b> 257:18 258:12
<b>homogeneously</b> 241:23,24	<b>illustrates</b> 202:6	<b>incentive</b> 228:12	<b>individual</b> 263:14	<b>instructions</b> 165:5 166:16 170:14 173:15, 23
<b>hook</b> 240:19	<b>illustrative</b> 275:5	<b>incidences</b> 256:12	<b>individuals</b> 189:4 294:2	<b>instructive</b> 201:16
<b>hope</b> 183:21 257:23 259:2 268:19 314:5	<b>images</b> 254:14	<b>incident</b> 253:11 307:7	<b>industrial</b> 182:19,24 195:5 262:22 263:3	<b>insufficient</b> 261:21
<b>horizon</b> 197:12 199:9 231:17 249:13	<b>imagine</b> 248:4 249:12 261:14 304:14 314:14	<b>inclined</b> 257:1	<b>industry</b> 244:6 300:19	<b>insults</b> 244:4
<b>host</b> 168:24 233:9 264:23 265:5	<b>immediately</b> 241:1 251:22 310:2	<b>include</b> 189:7,19 195:21 204:13,16 298:15,21	<b>inexpensive</b> 298:10	<b>intended</b> 290:5 318:12
<b>hot</b> 278:3	<b>immigrant</b> 181:17 182:5 259:11	<b>included</b> 165:21 170:24 176:9 254:22 271:17 294:16	<b>infection</b> 259:21,23,24 260:2	<b>intending</b> 291:12
<b>hotbed</b> 268:2	<b>impact</b> 183:18 220:6 221:4,5 230:14 264:6 266:5 286:6,7 316:6	<b>includes</b> 196:17 200:16 278:18	<b>inflection</b> 202:13	<b>interest</b> 266:3 285:23 297:8,10 303:3
<b>hour</b> 221:20	<b>impacted</b> 256:8 286:7	<b>including</b> 166:24 179:16 186:9 189:8,11 193:19 196:2 198:12, 18 256:6 298:16 302:2	<b>information</b> 166:18 173:11 192:6 195:13, 17,20 198:3,6 205:10, 18 207:12 215:23 217:5,6,9,10,19 234:24 253:16 315:4 317:6 322:10 325:11	<b>interested</b> 318:6
<b>hours</b> 255:15,17	<b>impacts</b> 185:23 232:16 239:11 240:15 241:15 242:8 259:15, 17 262:17,19,22,24 263:10,14 265:22 287:15 311:8,14	<b>inconsistent</b> 183:15 197:14	<b>information's</b> 325:13	<b>interesting</b> 201:23 205:20 223:5
<b>houses</b> 246:2 281:10	<b>impede</b> 236:10 303:6 305:18	<b>inconvenience</b> 254:11	<b>informed</b> 202:21 255:18	<b>interestingly</b> 207:11
<b>housing</b> 168:20 188:3 260:7	<b>impending</b> 297:3	<b>incorporate</b> 198:10 288:21 297:23 302:24 303:11	<b>informing</b> 258:11	<b>interests</b> 223:16 224:10
<b>human</b> 181:24 201:10	<b>implement</b> 188:13 261:3 298:15 304:3,9 324:2	<b>incorporated</b> 257:17	<b>infrastructure</b> 200:1, 8 203:5,12 242:5 246:23 264:17 266:15 283:12,23	<b>interfere</b> 322:7
<b>humid</b> 278:4	<b>importance</b> 269:17 278:9 315:24	<b>incorporates</b> 296:3	<b>initial</b> 185:18 254:12 307:16 309:5	<b>interference</b> 322:18
<b>hunts</b> 321:23	<b>important</b> 169:9 171:2 180:2 201:6 263:19 286:14 301:13	<b>incorporation</b> 264:6		<b>Interior</b> 257:7
<b>hypothetical</b> 245:8		<b>increase</b> 182:12 192:15,20,21 193:23		<b>interject</b> 184:23
				<b>internal</b> 322:18
				<b>international</b> 179:17
				<b>Internet</b> 256:9 260:11

<b>interpret</b> 213:24	<b>ISO</b> 186:22 192:13 198:18 206:20 276:13 284:6 308:14 309:1 323:11,14	<b>Jonathan</b> 168:18	<b>kinds</b> 246:11	<b>Lawyers</b> 252:6 256:16
<b>interpretation</b> 165:12,22,24 166:7,8, 11,20 167:1 172:23 173:10,12,16,21 253:19,22 254:13,19 255:1,3,4,24 256:11,14 258:18 271:4,6,7,11, 14,16,19,24 272:2,5,8 275:1,3,5 287:2 293:23	<b>issue</b> 192:5 193:21 195:9 224:4,19 228:13 234:4 237:24 238:2 241:18 264:20 269:24 270:6 300:14 304:11, 20 305:16 314:7 316:3 320:7 322:17	<b>Joseph</b> 168:21	<b>knowledge</b> 255:3 299:5	<b>layered</b> 259:13
<b>interpreted</b> 166:2,17 172:13 209:2 213:18 285:19	<b>issued</b> 191:18 286:12 304:3	<b>Josh</b> 215:11 238:16 264:17	<b>kv</b> 281:18,20	<b>lead</b> 209:3 287:3
<b>interpreter</b> 165:19 253:24 255:5,6 320:19	<b>issues</b> 171:15 181:15 191:9 248:13,20 252:5 253:15 262:12 292:18 293:3 317:7 320:4 323:3	<b>Joshua</b> 190:10	<b>Kyzmir-mckeon</b> 251:19	<b>leaders</b> 258:3
<b>interpreters</b> 165:7 168:8 172:15,18 186:3 254:7 255:2 270:23	<b>issuing</b> 185:17	<b>judicial</b> 316:9	<hr/> <b>L</b> <hr/>	<b>leadership</b> 188:8 257:11 258:22
<b>interpreting</b> 210:6	<b>item</b> 176:1	<b>Julia</b> 188:24		<b>leading</b> 200:2
<b>intervenor</b> 203:22 273:14 274:12	<b>iteration</b> 284:5	<b>jumping</b> 244:23	<b>lack</b> 257:9 258:9 260:11 312:7 325:2	<b>learning</b> 269:2,10 275:6
<b>intervenors</b> 175:10 190:5,7 195:10,12,15 203:18 204:2,7,13 226:2 320:3	<b>Ivy</b> 188:24	<b>juncture</b> 261:20	<b>lacked</b> 255:2	<b>leave</b> 177:2 285:12 307:23
<b>introduce</b> 167:12 168:10	<hr/> <b>J</b> <hr/>	<b>June</b> 191:12	<b>lag</b> 201:17	<b>leaving</b> 203:11 210:12 285:16
<b>Introducing</b> 183:14	<b>Jager</b> 190:2	<b>jurisdictional</b> 256:22 319:3	<b>lags</b> 254:23	<b>leeway</b> 297:14
<b>inundated</b> 295:14	<b>January</b> 192:16 266:2	<b>justice</b> 169:6 179:12 182:19 183:13,16 187:23 188:8,14 240:15 251:15,18 257:12 260:23 261:21 262:8,10 263:19,24 264:4,20 265:12 266:3, 7,16 292:15 293:3 294:7	<b>land</b> 176:11,15 182:24 247:10 249:2,3,6 280:18 286:15,16 310:15,17,19	<b>left</b> 243:7 255:1 275:9
<b>investigate</b> 187:12	<b>Jaqueline</b> 190:2	<b>justification</b> 187:3 192:10 231:4 265:1	<b>landscaping</b> 238:24	<b>legacy</b> 183:17
<b>investment</b> 297:9 298:10 301:13 303:5	<b>Jenna</b> 189:23	<b>justified</b> 232:15 276:13	<b>language</b> 165:9 172:24 173:2,5,6 187:17 252:20,23 254:7,10 256:6,15 257:18 261:3 269:24 270:8,11,19 273:5 275:6 318:9	<b>legal</b> 177:5,6 294:3
<b>investments</b> 297:20	<b>jeopardize</b> 301:3	<b>justifying</b> 197:16 230:19	<b>language-access</b> 181:15 270:6 291:14 292:14	<b>Legion</b> 180:23 182:18 183:1
<b>invite</b> 175:15	<b>Jersey</b> 245:24	<hr/> <b>K</b> <hr/>	<b>languages</b> 270:22	<b>legitimate</b> 220:13
<b>involved</b> 191:11 236:17	<b>jet</b> 186:10 242:24 243:16 250:4	<b>Katie</b> 167:7	<b>lapsed</b> 316:13	<b>Lena</b> 190:2
<b>involvement</b> 290:24 319:11,12 320:13	<b>job</b> 172:18 296:12 323:2	<b>Kennedy</b> 189:13	<b>large</b> 180:17 188:16 201:1 239:2 283:22 309:2,14 311:18	<b>length</b> 307:24 311:7
<b>involves</b> 318:21	<b>jobs</b> 260:4	<b>key</b> 166:14,15 173:18, 19 195:13 197:16 308:18	<b>largely</b> 182:5	<b>Leonard</b> 189:22
<b>IPCC</b> 200:17 206:10 209:2	<b>Joe</b> 189:19	<b>kick</b> 275:13	<b>late</b> 264:9 307:19	<b>LEP</b> 252:13
<b>IPCC's</b> 200:18 201:1	<b>John</b> 177:4 189:22 190:3 242:13 243:20 249:19 262:23 269:15	<b>kids</b> 179:6 243:13,15, 18	<b>Laura</b> 251:13	<b>letter</b> 184:7,16,18 260:19,23 267:10
<b>island</b> 277:1 310:11 311:22 324:11 325:19	<b>join</b> 181:7 183:20 266:9	<b>kind</b> 203:4 205:21 206:17 207:1 208:3,9, 22 209:13,22 210:2,4 211:19 223:6 268:1 269:3 279:8 290:15 299:7 307:11	<b>law</b> 169:14,17 170:5 187:10 188:24 189:10 250:20 251:3,15,18 252:17,18 312:3 316:15	<b>letters</b> 258:4
	<b>joined</b> 169:4		<b>laws</b> 187:16 252:23	<b>leukemia</b> 239:24
	<b>joining</b> 167:10 169:21		<b>lawsuit</b> 187:10	<b>level</b> 182:13 199:9 201:9 206:21 210:4 212:12 213:20 214:3 277:11 280:6 281:9,23 284:6 290:16 295:11 300:7,11 302:1 310:23, 24 317:18 321:20 323:15 324:1,17
				<b>levels</b> 199:7 201:8,15 208:16,18 214:4 239:21 277:15 279:11, 12,13 296:7 297:6 299:10 300:13

<b>liability</b> 194:4 241:11	<b>live</b> 236:3 307:10	<b>location-specific</b> 281:13	<b>lower</b> 194:1 201:24 206:4 281:20 286:6,7	183:10 188:5 195:15, 16 202:21 214:17 215:9 221:1,14 222:6 224:6,23 226:3,12 228:12 243:17 244:16 250:12 258:23 260:15 264:18 266:12 269:6 292:21 295:8 297:20 298:20 307:9 317:11 322:1 323:4 324:24
<b>liaisons</b> 291:5 293:5, 16	<b>lives</b> 237:15 259:15 261:16	<b>locations</b> 234:23 235:6 249:7 311:16	<b>lower-probability</b> 199:24	<b>makes</b> 181:19 233:5 295:3 297:11
<b>lies</b> 180:20	<b>living</b> 240:2	<b>locked</b> 321:15 322:1	<b>lowest</b> 206:7	<b>making</b> 209:22 212:11 236:14 275:21 282:22
<b>life</b> 259:16 279:24 280:3 301:20	<b>load</b> 192:12,14,15,18, 19,21,23 193:2,8,9,16, 23 194:13,14,17 195:18,19,21,22,24 196:2,3,4,5 215:22 216:12,18,23 217:1 218:8,11,12,15,16,17, 20,22 219:4,15 220:1, 14,15,23,24 221:12 229:19 231:14 276:15 277:3,7,12 278:3,15,24 279:6 280:14 281:22 282:6,7,17 284:12 308:16,21 310:4,6 311:19 313:6,13,16 314:1,7,16 316:16 320:4	<b>Logan</b> 312:22 313:6, 20	<b>Luna</b> 189:9 190:13,18 196:11,12,13 204:19 205:16,17,24 207:24 208:7 210:7 212:13,15, 23 213:5 222:14,15 245:6,20 249:9 299:9	<b>management</b> 198:7 302:12
<b>lifelong</b> 178:22	<b>loads</b> 193:1,4,7,22,24 194:9 195:19 220:9,16 277:14,19,21 307:22 309:4,10 312:2,9 313:17 317:8,15 325:1	<b>Logan's</b> 309:6	<b>Lydia</b> 189:1,18 292:4 293:15	<b>manager</b> 293:6
<b>lifespan</b> 199:16 279:17	<b>local</b> 170:20 175:7 184:4 188:18 193:4,24 201:20 267:10 323:15	<b>long</b> 168:3 247:1 279:17 296:5	<hr/> <b>M</b> <hr/>	<b>mandate</b> 252:15 259:6 308:5
<b>lifetime</b> 197:1	<b>locality</b> 227:10,14,20, 23 318:10,14	<b>long-lived</b> 199:15	<b>Macdougall</b> 190:3	<b>manner</b> 286:5 289:6 296:14 297:23
<b>lifted</b> 266:20 267:8	<b>localized</b> 276:20	<b>longer</b> 220:10 232:15 241:10 280:1 311:6 314:19,23	<b>Madam</b> 190:19 191:3 203:20 221:19 251:11 269:22 273:9 325:9,22	<b>map</b> 264:3 282:3
<b>light</b> 186:22 194:21 241:7	<b>locally</b> 198:22	<b>longer-term</b> 243:4 314:6	<b>Madame</b> 178:14 251:9	<b>maps</b> 198:1,8,9,12,20
<b>likelihood</b> 316:6	<b>located</b> 176:10 180:7, 16 227:11,13,24 243:19 248:14 298:8	<b>longstanding</b> 170:6 259:14	<b>Madaro</b> 177:11 178:9, 10,13 189:15 243:14	<b>March</b> 169:15 188:22 255:13,20,23 256:1
<b>limitations</b> 256:22 277:10	<b>localizing</b> 180:14	<b>longtime</b> 183:7	<b>made</b> 166:1 174:2,6 182:21 192:7 199:8,22 215:1 216:18 223:3,4 226:22 235:21 248:2 268:16 288:22 291:11 294:13 310:16 315:17, 22 317:10 320:8	<b>Marcos</b> 189:9 196:13 204:19 242:17 299:9
<b>limited</b> 167:20 175:3, 10 190:6 204:8 250:19, 23 251:16 252:4,11 254:3 257:16 259:11 262:4 264:13 280:23 299:2,3 312:5 318:6 320:3	<b>location</b> 170:18 176:15 180:4 185:22 215:15 232:9 234:14 236:3 245:12,17 247:9 248:1,19 249:1,18 250:2 280:16 281:5,8 285:24 287:10,14,24 288:23 290:2 309:23 321:22,24	<b>looked</b> 213:6 245:19 249:19 305:10	<b>mailbox</b> 170:16	<b>margin</b> 297:16 300:4
<b>limiting</b> 187:18	<b>location-centered</b> 232:19	<b>loop</b> 276:12	<b>mailed</b> 170:16	<b>marginalization</b> 259:14 268:8
<b>limits</b> 324:14		<b>looped</b> 324:21	<b>mailing</b> 258:16	<b>marginalized</b> 252:3 258:9 267:24 268:1
<b>linear</b> 235:5		<b>loss</b> 246:22 307:8 324:19 325:6	<b>main</b> 234:12	<b>marginalizes</b> 259:9
<b>lines</b> 172:4 228:2 235:5 276:8,11 277:6 285:4 311:6 322:10 324:21		<b>lost</b> 276:17	<b>maintain</b> 243:11 246:3	<b>Maria</b> 189:21
<b>link</b> 174:9		<b>lot</b> 192:1,6 211:12 229:10 238:7 239:19 240:16 242:4 245:3 250:2 270:14 282:22 283:12	<b>major</b> 179:16 180:9,14 186:11 312:21 313:6	<b>mark</b> 174:17,18,20 210:1
<b>lip</b> 266:7		<b>loud</b> 172:15,17 289:19	<b>majority-minority</b> 181:16	<b>marked</b> 263:3
<b>list</b> 175:19,21 184:17 255:18		<b>love</b> 221:11	<b>make</b> 171:12 172:20 173:1 177:24 182:22	<b>market</b> 219:1
<b>listed</b> 187:3 206:13		<b>low</b> 209:12 211:17 212:11		<b>markets</b> 219:18
<b>listen</b> 166:4 169:19 173:8 175:4		<b>low-likelihood</b> 322:22		<b>Markey</b> 189:12
<b>listened</b> 192:5		<b>low-lying</b> 245:16 247:6		<b>mass</b> 206:5 207:9 258:16
<b>listening</b> 169:23 171:19 175:2 223:8		<b>low-probability</b> 197:19 200:6		<b>Massachusetts</b> 167:9 169:13 191:8 199:3
<b>literature</b> 239:22				
<b>litigate</b> 223:21 225:21				



<p>243:21 246:17 252:17 264:9 283:13,24 317:1 323:7</p> <p><b>massive</b> 202:15</p> <p><b>Massport</b> 207:6 231:1 310:15 311:5</p> <p><b>materially</b> 249:12</p> <p><b>materials</b> 196:7 215:16 219:7 292:22</p> <p><b>matter</b> 176:3 215:17 220:10 239:4 251:22 272:5 274:17 282:20 290:17 295:15 307:16 309:13 312:3</p> <p><b>matters</b> 202:9 316:15</p> <p><b>Matthew</b> 168:12</p> <p><b>Mauricio</b> 166:19 173:20</p> <p><b>maximum</b> 203:9 212:7 222:16</p> <p><b>meaningful</b> 252:12 292:23 293:9 320:13</p> <p><b>meaningfully</b> 187:18 261:2</p> <p><b>means</b> 181:6 208:23 210:17 275:7 308:24 318:11</p> <p><b>measures</b> 257:19 261:3 297:17 298:15, 20 301:16 302:24 303:2,11 308:8 321:11</p> <p><b>median</b> 200:23</p> <p><b>meet</b> 195:11,12 252:14 276:11 294:4 310:6 312:6 313:9 315:6</p> <p><b>meeting</b> 165:6 166:4, 23 167:3,13,14,18,19, 23,24 168:3,6,12,24 169:10,11,12,14,17,18, 22 170:5,10,11,23 171:1,7,10,13 173:8,24 174:1,6,10,12 175:9,24 176:23 177:12 182:1,2 184:17 189:3 190:11, 14 192:1,8 194:8 195:8 204:24 223:4 233:24 234:20 235:13 251:4</p>	<p>271:8,12,20 272:11,17, 19 275:14 276:1 286:5 290:5 292:1 293:15 294:13 295:18 313:3</p> <p><b>meeting's</b> 275:11</p> <p><b>meetings</b> 170:4 238:3 291:10,18,22,24 293:22</p> <p><b>meets</b> 227:21 294:4</p> <p><b>megawatts</b> 276:16</p> <p><b>Meija</b> 189:16</p> <p><b>melting</b> 201:3</p> <p><b>member</b> 168:22 171:4 262:11 263:22 293:1 307:3</p> <p><b>members</b> 167:11 168:10 171:3,18 175:12 178:14 181:16 185:6 191:4,5 207:2 236:7 237:15 251:11, 13 254:1 261:7 263:18 275:4 285:11</p> <p><b>membership</b> 265:3</p> <p><b>memories</b> 275:13</p> <p><b>memory</b> 243:8</p> <p><b>mention</b> 171:10 177:11 204:1</p> <p><b>mentioned</b> 172:4 207:19,21,22 212:24 226:20 294:14,15 305:8 311:2</p> <p><b>MEPA</b> 294:6 309:21</p> <p><b>Merson</b> 189:21</p> <p><b>met</b> 252:22 270:10 273:4 278:15 316:3,8</p> <p><b>metal</b> 321:10,23</p> <p><b>meter</b> 229:16</p> <p><b>Michelle</b> 184:7 188:15 189:18</p> <p><b>middle</b> 181:19 207:22 208:21,22,24 209:9,18 238:6</p> <p><b>middle-range</b> 197:11 199:11 200:4</p>	<p><b>mile</b> 170:17</p> <p><b>million</b> 201:11 309:23</p> <p><b>millions</b> 265:16</p> <p><b>mind</b> 210:3 223:8 250:11 305:7</p> <p><b>minimize</b> 287:15 298:22</p> <p><b>minimum</b> 202:3 232:16 294:10 301:6</p> <p><b>minute</b> 226:17</p> <p><b>minutes</b> 168:7,8 174:14 185:1 274:4</p> <p><b>Miranda</b> 189:15</p> <p><b>misguided</b> 179:20</p> <p><b>missed</b> 166:21</p> <p><b>mistake</b> 212:11</p> <p><b>mistakes</b> 254:23</p> <p><b>mistrust</b> 186:19</p> <p><b>misunderstanding</b> 197:10</p> <p><b>mitigate</b> 182:22 183:3</p> <p><b>mitigated</b> 266:6</p> <p><b>mitigating</b> 183:8</p> <p><b>mixed-use</b> 309:24</p> <p><b>mocked</b> 255:7</p> <p><b>model</b> 199:4 206:7 207:9 214:15 278:17</p> <p><b>modeled</b> 198:22</p> <p><b>modeling</b> 199:3</p> <p><b>models</b> 208:23</p> <p><b>moderate</b> 172:16</p> <p><b>moment</b> 165:13 167:12 177:23 205:5 210:12 220:1 257:3,23 289:13</p> <p><b>momentito</b> 205:13</p> <p><b>month</b> 190:4 224:17 265:14</p> <p><b>months</b> 285:5 286:21</p> <p><b>moot</b> 194:11</p>	<p><b>Moran</b> 168:16 212:21, 22 214:18 248:10,11 250:8</p> <p><b>morning</b> 168:1 175:18</p> <p><b>motion</b> 225:6,8</p> <p><b>move</b> 176:13 177:24 179:21 221:24 250:16, 23 251:5 286:2 303:15 306:9</p> <p><b>moved</b> 177:11</p> <p><b>moving</b> 240:6 243:22 249:4</p> <p><b>multi-million-dollar</b> 297:19</p> <p><b>multiethnic</b> 265:4</p> <p><b>multilingual</b> 187:7 258:16 265:4</p> <p><b>multiple</b> 235:12 236:2 258:2 263:14 270:21 318:22</p> <p><b>multiply</b> 267:24</p> <p><b>municipalities</b> 236:2</p> <p><b>mute</b> 165:16 171:19</p> <p><b>muted</b> 245:5</p> <p><b>MWRA</b> 312:1</p> <p><b>Mystic</b> 241:13,17 276:9</p> <p><b>Mystic-east</b> 167:5</p> <hr/> <p style="text-align: center;"><b>N</b></p> <hr/> <p><b>national</b> 323:8</p> <p><b>nationally</b> 323:8</p> <p><b>natural</b> 282:24</p> <p><b>nature</b> 203:4 245:16 313:5 323:14</p> <p><b>necessarily</b> 262:18</p> <p><b>necessity</b> 181:3</p> <p><b>need's</b> 310:9</p> <p><b>needed</b> 165:13 174:24 192:3 194:5 195:20 224:23 231:8,9,18,19 232:1,5,15,17,21,22</p>	<p>238:2 244:19,22 245:3 249:17 255:4 281:14 287:13 297:21,22 298:12 303:11 307:13 314:23 315:1,5,12 317:6 320:11</p> <p><b>needing</b> 242:4</p> <p><b>negative</b> 193:10,13 218:18</p> <p><b>neighborhood</b> 176:16 179:18 180:13,21 181:5,9 182:22 183:9, 15 186:8,13 188:9 196:20 233:6 237:12 241:9 243:2,10 247:11 248:15 259:20</p> <p><b>neighborhoods</b> 243:6 244:5 259:22 261:16</p> <p><b>neighboring</b> 295:1</p> <p><b>neighbors</b> 179:3</p> <p><b>Nelson</b> 168:12 204:14, 17 205:6,8,12,17 207:17 208:1 209:21 212:3,14,16,18 214:21 215:5,9,18,22 216:5,9, 13,21 217:12 218:19 219:3,8,12 220:5 221:1,16 222:2,23 225:1 226:5,12,20 228:19 229:24 230:5,9 231:22 233:10,15,20 234:2 236:20 252:22 253:1 267:3,4,14 268:21 269:19 274:14, 15 284:18 285:10 289:11,12 290:14 291:4,21 292:12 293:1, 14 294:12,19 295:17, 22 297:24 298:24 299:14 301:21,23 303:14,15 304:15 305:1,4,5 306:17 307:3 308:20 310:7,20 312:11 314:9 315:13 317:20 319:19 320:21</p> <p><b>NEPA</b> 266:2</p> <p><b>NERC</b> 323:10</p> <p><b>news</b> 166:5 170:20 302:3</p>
---	--	---	--	--

<b>night</b> 270:7	<b>obligations</b> 270:11 273:5	286:13 288:15	<b>organized</b> 201:21,23	187:24 194:21 195:3 238:14 259:8 260:9 263:11 268:7 269:5,10 291:16
<b>noise</b> 171:14 186:11	<b>observations</b> 201:3	<b>opening</b> 223:3 290:22 294:13 312:16 317:13	<b>original</b> 165:16 206:5 234:19 235:22 247:9 270:18,22,24 276:4 285:20 286:22 287:18, 19 289:1 291:19,24 306:23 308:19 309:12 320:14 325:17	<b>panel</b> 171:18 177:14, 19 250:20 273:20
<b>non-native-english-speakers</b> 254:15	<b>obtain</b> 188:13 297:1	<b>operate</b> 199:19 279:18 280:1,6	<b>originally</b> 176:14 207:8 231:8 256:1 306:19	<b>panelist</b> 177:4
<b>nonetheless</b> 304:4	<b>occur</b> 214:7 246:8 266:21 277:16,20 278:7,11 283:1 313:14 325:3	<b>operating</b> 280:3	<b>outage</b> 277:16 323:24 324:16	<b>panelists</b> 177:1
<b>nonprofit</b> 191:8	<b>occurred</b> 252:20 291:24	<b>operations</b> 240:8 241:14	<b>outages</b> 325:2	<b>paragraph</b> 227:7,9
<b>nor'easter</b> 295:15	<b>offer</b> 165:23 170:10 198:1 254:12	<b>opinion</b> 228:22 232:8	<b>outcome</b> 209:20 316:7,24	<b>parallel</b> 262:19
<b>normal</b> 272:18	<b>offers</b> 199:5	<b>opponents</b> 316:2	<b>outcomes</b> 308:3	<b>parallels</b> 308:5
<b>north</b> 238:19 306:2	<b>Office</b> 168:20 169:5 187:15	<b>opportunities</b> 241:6 269:3	<b>outer</b> 209:20 213:14	<b>parcel</b> 176:10,15 248:16 249:1,4 284:20 285:2,3,7,22 286:1,17 287:18,19 288:7
<b>note</b> 166:22 171:2,5 184:15 188:21 201:23 224:16 225:11 234:22 256:19 271:3,21 272:11,16,23 285:12	<b>officer</b> 185:6 191:4 238:1 252:24 253:3,22 254:9 261:23 270:4 271:10 274:23	<b>opportunity</b> 170:9,13 174:22 175:8 177:13 178:15 185:7 190:13 195:15 214:23 223:21 225:20 240:21 241:4 251:4,10 266:23 268:5 269:12 270:15 285:13 291:2 319:10 320:13	<b>outlets</b> 170:20	<b>parent</b> 256:18 257:22
<b>noted</b> 256:20 262:3	<b>officer's</b> 254:12	<b>opposed</b> 237:11 279:11	<b>outlier</b> 193:16	<b>parks</b> 180:23 243:1 246:22
<b>notes</b> 207:15 278:2 324:5	<b>official</b> 171:12 198:16	<b>opposite</b> 317:16	<b>outputs</b> 196:1	<b>part</b> 166:22 175:24 184:18 201:1 214:11 217:16 234:8 248:16, 22 252:21 261:20 283:5 286:15 293:10 298:13 300:21 302:20 303:23 304:13,16,17, 18,22 306:13 309:11
<b>notice</b> 165:21 167:18 168:2 170:15,18,24 172:2 174:5 189:2 270:21 273:13 297:2 321:2	<b>officials</b> 169:20 174:23 175:8 176:21 177:23 178:5 184:2,4 188:18 189:10 251:12 253:13 260:18 265:4 266:10 267:11 269:9	<b>opposition</b> 178:15 181:8 183:20 185:11, 17 186:18 289:17,20 290:12,15,19,20,21	<b>outreach</b> 187:7 289:2, 3 291:10 292:20 293:7	<b>participant</b> 251:16
<b>notices</b> 272:13	<b>offline</b> 274:21	<b>optimistic</b> 197:11	<b>overburdening</b> 268:7	<b>participants</b> 165:20, 24 166:1,3 167:21 169:19 173:7 175:3,10 190:6 204:8 250:19,23 318:7 320:3
<b>notion</b> 320:12	<b>oil</b> 179:18 180:17 182:19 227:11 282:24	<b>Option</b> 232:1,3,13,18	<b>overcrowded</b> 188:3	<b>participate</b> 170:14 187:19 261:2 264:21 268:5,6 269:7 291:15 319:16
<b>November</b> 251:23 253:19 258:17 274:24	<b>older</b> 202:2	<b>options</b> 296:23	<b>overloads</b> 325:5	<b>participated</b> 319:18
<b>NSTAR</b> 176:3	<b>Olsen</b> 189:22	<b>oral</b> 217:23	<b>overlooked</b> 273:15	<b>participating</b> 168:11 171:11
<b>number</b> 165:20 166:1, 8,9,13 170:22 173:12, 13,17 207:19 222:7 231:24 236:16 247:8 279:1 281:7 300:16 318:5	<b>one's</b> 206:10	<b>order</b> 169:16 175:4,7, 14,19 195:9 201:24 204:15 218:24 219:17 230:13 240:17 246:2 265:12 272:7 280:18, 19 284:21,22 289:1 292:10 310:5 311:24 315:6 321:19	<b>oversight</b> 324:1	<b>participation</b> 171:23 253:10 256:10 275:23 292:5,8,24
<b>numbers</b> 300:1	<b>one-hour</b> 168:4	<b>ordinance</b> 303:21 304:1,3,10	<b>overturned</b> 235:8	<b>parties</b> 167:20 170:7, 15 175:2 188:21 228:12 285:24 318:6
<b>numerous</b> 242:22 261:7	<b>one-way</b> 271:13	<b>organization</b> 251:21 319:17,22	<b>owner</b> 286:8	
<hr/> <b>O</b> <hr/>	<b>one-year</b> 314:2	<b>organizations</b> 205:15 265:6 323:10	<b>owners</b> 170:16	
<b>objected</b> 225:5	<b>ongoing</b> 169:10 256:15 258:6		<b>owns</b> 287:23	
<b>objectives</b> 292:20 299:19	<b>online</b> 189:5 272:20		<hr/> <b>P</b> <hr/>	
<b>obligation</b> 277:18 289:7	<b>onrush</b> 246:9		<b>p.m.</b> 167:24 168:4,5,6 255:13	
	<b>open</b> 169:13,17 170:5 233:22 238:11 240:22, 24 241:7 275:22		<b>pace</b> 172:16 194:1 220:21	
			<b>paid</b> 266:7 296:11	
			<b>palatable</b> 289:6	
			<b>pandemic</b> 182:10	

<p><b>parts</b> 242:21 246:1 260:13</p> <p><b>party</b> 190:9 193:19 203:21</p> <p><b>pass</b> 318:18 319:3</p> <p><b>passable</b> 321:15</p> <p><b>passed</b> 229:3</p> <p><b>passenger</b> 283:11,16</p> <p><b>past</b> 180:9 202:18 242:21 258:19 292:7</p> <p><b>patently</b> 253:8</p> <p><b>pathway</b> 287:17</p> <p><b>pathways</b> 211:18</p> <p><b>Patrick</b> 168:15</p> <p><b>patterns</b> 195:4 197:4</p> <p><b>pause</b> 166:16 168:9 177:23</p> <p><b>pay</b> 212:6 296:15</p> <p><b>peak</b> 217:1 276:15 278:3,24 284:9,10 308:23</p> <p><b>peak-load</b> 277:7</p> <p><b>peaks</b> 309:1</p> <p><b>pending</b> 261:4 267:21</p> <p><b>penetrate</b> 211:18,22</p> <p><b>people</b> 175:5 184:10 214:22 223:8 232:6 236:3,11 238:7 242:2,8 243:7 256:7 259:11 270:19 307:10 319:20, 23 321:9</p> <p><b>per-year</b> 193:24</p> <p><b>perceived</b> 256:22</p> <p><b>percent</b> 192:16,20,22 193:3,5,9,12,13 200:24 209:5,13 215:22 216:18,23 217:2,4 259:21 260:1,2,4,6 284:13 313:22 314:16</p> <p><b>percentage</b> 284:12</p> <p><b>percentile</b> 209:12</p> <p><b>perception</b> 240:4</p>	<p><b>perennial</b> 211:19</p> <p><b>performed</b> 187:6</p> <p><b>perimeter</b> 247:5 290:7</p> <p><b>period</b> 213:1,14 255:19 259:4 279:4 280:4 296:5 326:4</p> <p><b>periodically</b> 170:23 175:20</p> <p><b>periods</b> 213:17,21 254:24 288:16 316:12</p> <p><b>permanently</b> 313:8</p> <p><b>permits</b> 167:22 264:8</p> <p><b>permitted</b> 193:19 262:17</p> <p><b>permitting</b> 175:15 300:20</p> <p><b>persistent</b> 254:23 259:14</p> <p><b>person</b> 172:14 174:14 182:2 192:3 254:2 261:1 266:21 267:12 268:20,22 269:13,17</p> <p><b>persons</b> 318:6</p> <p><b>perspective</b> 223:15 225:21 232:4 237:10 239:1 277:1 286:14 288:4 295:9 307:16</p> <p><b>petition</b> 227:17 228:5, 7 291:8 306:21</p> <p><b>phase</b> 224:18 226:1 231:3</p> <p><b>phone</b> 165:20 166:6 170:12 172:4,9 173:9 175:17</p> <p><b>pick</b> 177:2 235:5</p> <p><b>pig</b> 244:12</p> <p><b>pile</b> 265:8</p> <p><b>placate</b> 237:20</p> <p><b>place</b> 170:4 183:11 233:19 250:7 277:21 292:21</p> <p><b>places</b> 242:22 247:8 299:16</p>	<p><b>plan</b> 229:7 280:2 283:6 298:14,22 302:20 308:8 323:6</p> <p><b>planned</b> 321:2</p> <p><b>planners</b> 229:7</p> <p><b>planning</b> 180:13 203:8 229:12 247:3 277:18 278:8 279:8,23 323:10</p> <p><b>plans</b> 240:22 279:7 281:4 287:24 288:1 323:12,22</p> <p><b>platform</b> 268:24 269:4</p> <p><b>plausible</b> 197:13 203:1</p> <p><b>plausibly</b> 200:9</p> <p><b>play</b> 179:6 219:23 243:15</p> <p><b>playground</b> 179:6 180:23 182:18 183:2 239:3 240:6 243:15 250:6</p> <p><b>playgrounds</b> 243:13</p> <p><b>playing</b> 240:11 243:13,18 259:16</p> <p><b>pleasure</b> 221:18</p> <p><b>plug</b> 247:4</p> <p><b>plugging</b> 247:18</p> <p><b>plurality</b> 233:1</p> <p><b>pocket</b> 192:15,20 193:2,8,16,23 194:14, 17 195:18,22 216:12 218:9 220:14,24 277:3, 12 280:14 308:16 311:19</p> <p><b>pockets</b> 220:19</p> <p><b>point</b> 177:2 184:2 186:14 194:11 202:13 204:12,15 205:20 208:20 211:14,16,17 216:22 235:9 236:1,13 238:13 244:3,8 265:10, 13 274:12,22 278:15 279:5 282:10 284:17 287:21 295:10 302:24</p>	<p>309:11,18 317:16 319:13 326:2</p> <p><b>pointed</b> 313:2</p> <p><b>points</b> 198:2 223:5</p> <p><b>police</b> 287:24 305:23 321:18 322:6,7,11</p> <p><b>policies</b> 198:17 201:16 202:18 294:6,11</p> <p><b>policy</b> 173:1 202:22 220:6,11 252:17 262:1, 10,13,18,21</p> <p><b>poll</b> 207:2</p> <p><b>pollution</b> 182:20 186:11 263:4</p> <p><b>pooled</b> 239:23</p> <p><b>popular</b> 180:22</p> <p><b>populated</b> 180:21 243:1,9</p> <p><b>population</b> 271:1</p> <p><b>populations</b> 182:6</p> <p><b>portable</b> 296:24</p> <p><b>portion</b> 191:24 194:7 195:8 284:8 289:18</p> <p><b>Portuguese</b> 271:1 294:2</p> <p><b>Portuguese-speaking</b> 271:2</p> <p><b>pose</b> 194:3</p> <p><b>posed</b> 292:18</p> <p><b>posited</b> 262:12</p> <p><b>position</b> 232:8 315:2</p> <p><b>positive</b> 218:14</p> <p><b>possibilities</b> 209:8</p> <p><b>possibility</b> 220:24 242:15</p> <p><b>possibly</b> 244:17</p> <p><b>post-hearing</b> 199:17</p> <p><b>post-hurricane</b> 245:23</p> <p><b>post-test-year</b> 314:10</p>	<p><b>posted</b> 166:24 170:18 174:3,7 184:24 189:5 216:2 217:7 272:20 273:2</p> <p><b>postpone</b> 260:24 261:6 266:16</p> <p><b>postponed</b> 167:17</p> <p><b>postponement</b> 260:20</p> <p><b>potential</b> 171:14 180:18 208:11 209:19 220:6 241:10 247:14 265:21 317:23</p> <p><b>potentially</b> 200:5 240:24 245:21</p> <p><b>pound</b> 166:14,15 173:18,19</p> <p><b>power</b> 202:21 232:7 233:1 252:9 259:6 261:17 264:11,15 266:12 281:18,21 307:8,10,24</p> <p><b>practice</b> 235:4 303:22 322:20</p> <p><b>precedent</b> 230:15 316:9</p> <p><b>precise</b> 185:22</p> <p><b>precisely</b> 200:1</p> <p><b>preclusive</b> 228:16</p> <p><b>predominant</b> 219:4</p> <p><b>predominantly</b> 181:16</p> <p><b>prefer</b> 248:19</p> <p><b>preference</b> 248:19 249:8 251:1</p> <p><b>preparation</b> 255:9</p> <p><b>prepared</b> 205:9</p> <p><b>preregistered</b> 172:2,8 175:14</p> <p><b>presence</b> 246:3</p> <p><b>present</b> 171:24 176:21 177:21 184:5 188:18 190:7,16 203:18 274:12</p>
---	---	---	---	---

<b>presentation</b> 186:21	208:18,22 209:4,12,13, 14	222:15 245:20 251:17 262:7	<b>prone</b> 185:20 246:19	<b>providing</b> 172:22 205:2 217:3 254:10 255:20 272:4 283:15 303:6
<b>presented</b> 191:14,19 213:7,8,17 214:17 276:6 291:10 306:13	<b>probable</b> 209:5	<b>proficiency</b> 252:4,11 254:3 257:16 259:12 294:2	<b>proper</b> 279:24	<b>provisions</b> 169:17 321:24
<b>presently</b> 297:12	<b>problem</b> 171:8 202:15 211:20 218:2 226:4 247:20,23 257:4 324:17	<b>profound</b> 284:8	<b>properties</b> 295:1	<b>proximate</b> 311:18
<b>presents</b> 180:5	<b>problems</b> 246:8	<b>program</b> 196:16 251:15	<b>property</b> 170:16 240:9,11 249:22,24 250:4,5 286:8,12 311:1 321:12	<b>proximity</b> 180:17 280:16
<b>President</b> 265:11	<b>procedural</b> 234:4,19 274:16	<b>progressive</b> 243:22	<b>proposal</b> 178:16 179:20 180:4 182:12 185:16 191:23 267:12 291:11 309:7,15,19	<b>prudent</b> 203:4
<b>presiding</b> 185:6 191:4 238:1 252:24 253:2,21 254:9,11 261:22 270:4 274:23	<b>procedurally</b> 188:13	<b>progressively</b> 218:23	<b>propose</b> 233:12	<b>public</b> 167:21 168:13, 14,21,22 169:20 170:4, 8 174:4,12,21,23 175:4,12,13,15 176:17 179:24 181:22 182:1 187:14,19 188:1 189:5, 20 190:1 191:5 223:23 224:1,13,16 225:13,24 226:7,14,23 227:1,4, 10,13,23,24 234:20,23 235:1,2,6,20 239:22 240:15 242:7 253:17 260:17,24 261:7,12,15 262:11 263:9,22 266:2, 10,17,20 270:23 271:17 283:7 286:13 288:17,22 289:3 290:24 291:11,15 292:24 293:13 309:14 318:7,10,24 319:4,5,7, 11,14 326:3
<b>press</b> 166:13,15 173:18,19	<b>procedures</b> 171:2	<b>prohibit</b> 262:2	<b>proposed</b> 167:4 170:17 176:6 178:24 179:7 180:4 181:9 182:3 186:15 187:21 191:15,20 194:11,20 196:20,22 201:22 203:15 227:14,19 228:4 237:4 281:1 285:22 288:10 297:12 298:13 300:7 306:7	<b>public-</b> 318:16
<b>pressing</b> 173:3	<b>proceed</b> 179:9 287:11	<b>prohibition</b> 283:10	<b>proposing</b> 234:14	<b>public-facing</b> 257:9 293:22
<b>Pressley</b> 189:13	<b>proceeding</b> 167:21 169:20 170:8 172:12 175:3 176:12 190:6,10 192:4 203:22 204:2 224:1,3,14 225:2,13 226:11 228:18,23 231:3,9 235:22 251:16, 24 252:2 253:5,11,21 254:8 255:1,10,17 256:6 258:3,14,21 260:15 263:17 270:9, 10,22,24 271:14,15 272:12,15 273:15 276:4 285:20 286:19, 24 295:6 306:23 308:19 309:4,6,12 316:3,7 317:3 318:5,24 320:2,14,16 325:13	<b>project</b> 167:4,6 176:7, 9 179:9,19 181:3,8 183:12,21 185:12,23 186:17,22 187:3 188:11 191:12 192:2,5 195:10 206:6 215:14, 15 224:2 230:20 231:2, 5,7,16,17,19 232:21 234:6 235:19 236:7 239:17 245:12,19 248:14 261:15 262:20 268:20 270:9 279:17 286:18,23 290:12,15, 19 291:6 293:5,6 298:19 304:16 307:1 311:6 322:5	<b>protect</b> 264:12 297:9 301:12,17 303:2	<b>publication</b> 189:2
<b>presumes</b> 223:20	<b>proceedings</b> 188:12 239:16 252:12 254:14, 16 258:23 264:22 266:21 267:7 270:12, 17,18 271:17 273:4,7 315:17	<b>project's</b> 192:10 197:1 266:4	<b>protecting</b> 303:4	<b>publicly</b> 257:12
<b>presumption</b> 225:19	<b>process</b> 179:24 181:14 186:17 187:19 215:10 225:2 275:22 289:2 291:16 292:9 303:23 304:23 315:24	<b>project-change</b> 224:18 225:2 271:15	<b>protection</b> 168:18 187:11 294:21 295:12 297:6 305:19 321:20	<b>published</b> 170:20 185:8 270:21 302:7
<b>presumptive</b> 304:7	<b>processes</b> 180:13 292:21	<b>projected</b> 198:11 200:24 209:18 213:13 279:12,13 313:16	<b>protections</b> 261:21 264:5	<b>purchase</b> 243:11
<b>pretty</b> 237:10 244:17	<b>produced</b> 286:4	<b>projecting</b> 200:13	<b>protects</b> 183:22	<b>purpose</b> 166:6 169:18 173:10 253:24 283:18 294:23 305:15
<b>prevent</b> 241:9 247:5 266:14 321:13	<b>professor</b> 190:13,18 196:12,14 205:24 207:24 208:7 210:7 212:13,15 213:5	<b>projection</b> 211:4	<b>prove</b> 244:20 317:4	<b>pursuant</b> 169:13
<b>prevented</b> 181:15		<b>projections</b> 199:5 200:3,15,19,23 201:1 208:8,12,17 222:20 231:7 315:11	<b>provide</b> 165:4 169:8 183:3 205:1 225:11 255:4 256:12 270:8,11 271:5,11,13,24 272:7, 18,24 273:5 285:4,8 286:20 294:21 295:11 297:5,15 305:18,24 310:18	<b>push</b> 241:21
<b>previous</b> 185:13		<b>projects</b> 187:2 199:21 235:5 236:1 262:4 293:11 323:13	<b>provided</b> 170:15 174:22 175:18 186:20 191:16 195:23 208:8 253:5,23 254:20 270:19,21,23 271:16 272:2,16 273:4 291:14	<b>pushed</b> 231:7,10
<b>previously</b> 176:9 201:5 218:12 227:17 228:5,6 276:22		<b>prompt</b> 171:16		<b>pushing</b> 186:17 210:15,24 211:8
<b>primarily</b> 262:21		<b>promulgate</b> 225:3		
<b>primary</b> 229:1 233:8 280:12 282:20 294:23 299:23				
<b>principle</b> 299:23				
<b>principles</b> 183:16				
<b>prior</b> 167:14 171:21 190:11 223:18 224:13 229:4 253:21 254:9 255:15 256:11 258:4 285:6 291:5				
<b>prior-need</b> 230:18				
<b>proactive</b> 323:3				
<b>probabilities</b> 199:11, 12 200:4				
<b>probability</b> 199:7,9				

231:16 312:20	<b>quoted</b> 206:8 253:13	284:22	<b>recognize</b> 202:15 244:3 257:17,21,22 289:16 291:1 318:16	<b>referenced</b> 204:23 205:16
<b>put</b> 166:17 185:24 186:6 233:12 242:9 243:24 246:20 247:17 248:2 253:16 275:21 288:4 297:4 299:8	<hr/> <b>R</b> <hr/>	<b>reading</b> 284:21 325:16	<b>recognized</b> 180:7 198:11	<b>references</b> 198:1
<b>putting</b> 295:23	<b>racism</b> 263:2	<b>ready</b> 175:23 198:8,21 207:4,10,20 213:8 247:4 306:9	<b>Recognizing</b> 248:12	<b>reflect</b> 218:24 219:1, 17 305:12
<hr/> <b>Q</b> <hr/>	<b>radiation</b> 239:18	<b>real</b> 198:13 226:3 229:22 246:22 257:21 269:11 275:6 302:15 310:9	<b>recollection</b> 215:12 237:22 238:5	<b>reflected</b> 291:19
<b>qualify</b> 313:21	<b>radio</b> 322:7,13	<b>reality</b> 201:17 209:7 219:18 257:5 305:17 311:2 312:4 322:2	<b>recommend</b> 165:16 191:22	<b>reflects</b> 208:16 225:19
<b>quality</b> 265:22	<b>raise</b> 172:4,10 175:16 178:6 228:13 237:3 258:14 263:23 317:14	<b>realize</b> 236:9 245:14 279:21	<b>recommendation</b> 207:2,13 267:5 268:14	<b>refresh</b> 275:13
<b>quarter</b> 170:17	<b>raised</b> 180:2 181:2 224:22 228:8 237:24 238:4 254:9 262:9 263:18 270:1 274:16 295:5,13 316:2 321:9	<b>realtime</b> 172:13 259:16	<b>recommendations</b> 198:17 199:8 207:7	<b>refused</b> 258:19
<b>question</b> 194:19 197:8 200:8 210:8 212:23 216:16,17 217:13 219:9 222:16,17 223:19 225:4 226:6,16 231:18 233:14,21 234:3 237:19 238:10 239:8 241:18 242:8 244:9 245:6,8,10,14 248:7,12 250:23 261:24 264:16 265:7 266:14 268:10,11,18 269:14,23 270:13 278:21 280:7 282:1,18 288:12 294:19,20 303:24 305:4 308:11 310:8 325:11	<b>raising</b> 179:5 317:7	<b>reason</b> 220:13 229:14, 18 231:18 297:2 312:24 314:19 315:22 317:3	<b>recommended</b> 191:17 202:3 207:14	<b>regard</b> 194:11 215:18 224:24 227:15 276:4 278:13 280:7 284:4 286:20 295:13 296:3, 18 322:12 323:9
<b>questions</b> 181:11 192:9 203:17 204:12 205:7 214:19 218:6 221:23 222:1 223:1 225:1 227:7 233:23 236:19,21 239:10 245:9 248:10 250:10, 13,15,16,24 254:2 258:15 262:9 263:19, 20 267:2 269:20 274:13 275:10 284:17 304:5 320:24 321:2,5,8 324:5 326:3	<b>range</b> 199:5 200:20 201:18 208:3,22 209:4, 10,18,20 212:24 213:11,13 214:2,14 222:21 249:14 262:23	<b>reasonable</b> 193:21 229:11 288:21 296:14 297:23 301:18 315:1	<b>reconcile</b> 267:6	<b>region</b> 187:1 193:12, 13 194:2,18 218:13,18 220:2
<b>quick</b> 205:8 278:1	<b>rapidly</b> 202:19	<b>reasons</b> 197:16 221:7	<b>reconsider</b> 188:11	<b>regional</b> 276:6,13,14, 22 308:17 323:13
<b>quickly</b> 201:4 302:13	<b>rarely</b> 316:14	<b>reassess</b> 265:18	<b>reconvene</b> 222:6 274:8	<b>regions</b> 220:21
<b>quote</b> 191:13 195:11 199:18 234:22 253:23 266:1	<b>rate</b> 192:15,20,21 193:3,4,9,24 201:8 218:7 259:21,23,24 260:2,14 302:3 314:11	<b>rebuffed</b> 258:2	<b>record</b> 166:14 171:6, 12 172:21 173:19 184:10,18,24 207:21 217:15,16 221:8 222:13 223:6 224:8 226:19 230:10 231:23 232:5 237:10 252:15 253:16 257:17 258:11, 24 259:4 274:11 276:3 285:13,14 300:2 307:12 309:3,14 312:17,24 313:11 315:15,18 325:13	<b>regionwide</b> 229:14
<b>quote-unquote</b> 204:7	<b>ratepayers</b> 203:13	<b>recalibrated</b> 192:18	<b>recorded</b> 166:23	<b>regular</b> 314:11
	<b>rates</b> 182:8,11 188:2 216:24	<b>recall</b> 294:12,17 295:17 325:15	<b>recording</b> 174:1	<b>regularly</b> 210:18 302:21
	<b>rational</b> 229:11	<b>receive</b> 184:16 271:3,7 323:14	<b>redacted</b> 225:15	<b>regulations</b> 169:14 170:6 202:19 204:7 234:24 235:1,17 304:3, 9 318:16
	<b>rationale</b> 264:19	<b>received</b> 187:8 188:22 189:3,24 190:3 253:4 255:16 271:9 289:14 309:20	<b>redeveloping</b> 309:15	<b>regulatory</b> 265:13 309:20 324:3
	<b>ravine</b> 249:24	<b>recent</b> 198:3 205:22 265:12 308:15	<b>reduce</b> 280:22 288:22	<b>reinforce</b> 315:16
	<b>re-industrial</b> 241:5	<b>recently</b> 182:10 185:13 206:23 256:4 302:3	<b>reducing</b> 183:8 282:21	<b>reinforced</b> 308:10
	<b>reach</b> 210:23 291:6	<b>receptive</b> 194:24 293:12	<b>reengineer</b> 247:21	<b>reiterate</b> 238:16 243:20
	<b>reached</b> 201:9 258:22 261:20 279:15	<b>recess</b> 222:11 274:9 326:6	<b>reengineering</b> 298:5	<b>reject</b> 191:17,22 203:14 266:13
	<b>react</b> 301:15		<b>refer</b> 232:23	<b>relate</b> 248:13
	<b>reaction</b> 318:1		<b>reference</b> 308:13	<b>related</b> 169:16 191:10 207:21 216:6 239:18 248:20
	<b>reactions</b> 295:23			<b>relating</b> 206:1
	<b>reactors</b> 281:11			<b>relation</b> 238:22
	<b>read</b> 184:9,20,22 185:1,3 202:2 227:18			

# EFBSB Board Meeting Re EFBSB 14-04A/DPU 14-153A/14-154A - Vol B - 2/8/2021

Index: relationship..Rosenzweig

<b>relationship</b> 239:23	<b>Rep</b> 177:11	294:17 312:6	254:9 271:10	298:23 299:11,22
<b>relative</b> 212:1 240:14 241:12,20 253:15	<b>repeat</b> 171:16 173:15, 23	<b>requirements</b> 287:10 294:3,5 308:9 315:7 324:3	<b>response</b> 197:23 298:14,22 302:20 322:4	300:3,13,15 301:2 302:2,5,22 304:22
<b>relax</b> 225:22	<b>repermitting</b> 298:6	<b>requires</b> 182:13 262:2,4	<b>responsibility</b> 252:10 256:2 308:1	<b>rises</b> 212:4,5
<b>release</b> 255:14	<b>replace</b> 269:12	<b>requiring</b> 195:16 264:5 310:18	<b>responsible</b> 283:6 293:7	<b>rising</b> 297:6
<b>released</b> 198:9,21 200:19	<b>reply</b> 199:17	<b>rescheduled</b> 167:16	<b>responsive</b> 253:4	<b>risk</b> 180:10,18 185:22 186:7 196:17,24 197:3, 10,14,20,21 198:8,9, 11,16 200:7 201:19 202:2 206:8 214:11,12, 13 239:13 240:5,8 242:16,19 246:7,15 247:9 249:10,11 276:14 298:22 300:15 307:20
<b>reliability</b> 167:5 241:19 286:6 301:14 316:24 323:4	<b>report</b> 192:13,24 198:22 199:5 200:19, 21 203:3 206:6,10 207:11 208:8 213:8,21 222:19 274:19,20 287:7 296:9 300:18 302:6 303:10,22	<b>research</b> 198:3,23	<b>responsiveness</b> 253:8	<b>risk-averse</b> 246:4
<b>reliable</b> 232:7 278:9 296:13 297:9 303:6 307:10 308:6 324:24	<b>reports</b> 198:8 200:17 308:14	<b>researcher</b> 191:6	<b>rest</b> 193:11,12 194:15, 18 247:16 288:2 305:11 308:22,23	<b>risks</b> 186:16 188:6 198:13,22 202:10 203:12 206:15 242:18 249:14 261:11 264:22
<b>reliance</b> 282:21	<b>represent</b> 177:5 263:23 319:23	<b>researchers</b> 198:24	<b>result</b> 196:6 239:17 256:15 276:23 278:18 279:2,3 310:3 312:18 325:6	<b>risky</b> 249:22
<b>relied</b> 309:5	<b>Representative</b> 177:17 178:1,9,10,13, 21 184:1 243:14	<b>reserve</b> 275:9	<b>resulted</b> 241:6 263:2	<b>road</b> 264:3 282:2 303:13
<b>relocate</b> 285:1	<b>Representatives</b> 189:12,14	<b>reside</b> 178:23	<b>resulting</b> 252:5	<b>roadways</b> 283:23
<b>relying</b> 229:12	<b>represented</b> 190:10 254:18	<b>resident</b> 178:22 181:11 182:15 196:18	<b>resume</b> 167:24 168:4 188:20	<b>robust</b> 318:5 320:2
<b>remain</b> 192:11 218:6 252:7	<b>representing</b> 260:18 319:20	<b>resident's</b> 255:7	<b>return</b> 285:16	<b>rock</b> 250:6
<b>remaining</b> 167:20 175:2 221:23 228:12 254:4	<b>reproduced</b> 213:9	<b>residential</b> 185:20 195:6 283:2	<b>Revere</b> 228:1 310:11	<b>role</b> 169:7
<b>remains</b> 218:9	<b>request</b> 171:16 215:10,16 253:18 271:7,9	<b>residents</b> 169:21 179:15 180:1 181:1 183:11 186:13,19 187:17 203:13 241:6 252:4,11,13 253:9 254:4 255:21 257:16 258:11 259:9 260:8,11 261:1,14 264:12,21 265:5 266:10 269:1,6 307:9	<b>reverse</b> 201:24 229:22	<b>roll</b> 183:6 257:2
<b>remark</b> 290:22 312:16	<b>requested</b> 177:13 254:6 261:5	<b>resiliency</b> 183:3	<b>review</b> 188:12 193:20 195:21 256:24 258:7 262:5 266:19 268:17 292:7 304:13,21,23 309:21 323:14,21	<b>rolling</b> 322:22
<b>remarks</b> 313:2	<b>requesting</b> 260:19	<b>resistant</b> 321:17	<b>reviewed</b> 300:21 304:5,15 320:5	<b>room</b> 166:9,13 173:13, 17 174:8 177:1,5,7 189:6 248:23 254:13, 21 271:24 272:5
<b>remember</b> 171:19 172:14 215:12 304:19 325:16	<b>requests</b> 225:4 253:4 258:2 261:8 271:4	<b>resolution</b> 266:18 267:11 268:16,18	<b>reviews</b> 323:21	<b>rooted</b> 263:1
<b>remind</b> 174:15	<b>require</b> 227:18 258:15 261:4 281:10 283:12 287:6 298:5 311:5 318:16	<b>resolve</b> 268:12	<b>revisiting</b> 236:17	<b>Rose</b> 269:15
<b>remote</b> 167:3 170:10	<b>required</b> 223:24 224:14 227:14 234:10 242:11 252:14 286:22 294:10 297:18 300:20, 24 318:24	<b>resolved</b> 171:8	<b>rewrite</b> 253:6	<b>Rosenzweig</b> 275:14, 18 278:5,21 279:9,22 281:6 282:18 284:20 285:17 287:5,22 288:18 289:12,16 290:17 291:7 292:2,16 293:4,21 294:18,23 295:21 296:1 298:3 299:13,18 302:17 303:24 304:17 305:2, 15,22 306:12,17,21
<b>remotely</b> 169:12 171:11 259:8 268:6	<b>requirement</b> 228:9	<b>resources</b> 168:16 247:18 275:20 277:5, 21 278:14,16	<b>Rich</b> 266:1	
<b>remove</b> 324:24		<b>respect</b> 201:19 317:14	<b>rights</b> 187:13 252:7,18 256:16,17,23 257:2,13 258:5,6 266:18,19 268:12,17	
<b>reopen</b> 195:9 223:18 224:11 230:10 231:23 264:16 265:15 266:13 268:11 312:16,24 313:11 315:17 316:20		<b>Respectfully</b> 253:7	<b>rise</b> 197:3 199:6 200:2, 16,20,23,24 203:3,6,9 209:16 210:12 211:2,7 222:16 233:5 295:14 296:8,19 297:4,15	
<b>reopener</b> 223:19 225:19		<b>respond</b> 261:10 288:14 293:18 299:15		
<b>reopening</b> 217:15 221:8 223:6 232:5 307:11 316:3,4,11		<b>responded</b> 253:3		

307:15 308:21 310:13, 22 313:1 314:21 315:20 318:4 320:1,20, 21,24 321:9,14 322:9 323:2 324:10 325:8,11, 15 <b>round</b> 222:6 284:11 <b>route</b> 287:20 <b>routes</b> 211:22 <b>row</b> 222:18 <b>Royce</b> 190:2 <b>rule</b> 290:22 <b>run</b> 216:4 236:5 307:20 <b>running</b> 179:17 208:10 246:7 <b>Ryan</b> 189:15	199:12,24 200:5 203:1, 2 <b>scheduled</b> 167:15 174:11 256:1 273:11 <b>scheduling</b> 276:1 <b>School's</b> 251:18 <b>science</b> 197:6 202:24 302:1,16,22 303:9 <b>sciences</b> 196:15 <b>scientists</b> 186:13,24 200:2 246:4 <b>scope</b> 215:14 225:5 232:11 262:9 <b>scrap</b> 321:10 <b>screen</b> 165:10 166:18 172:11 173:4 274:1 <b>screen-share</b> 205:5 <b>screening</b> 305:24 <b>script</b> 166:22 <b>scrutiny</b> 182:14 <b>sea</b> 195:19 201:15 212:12 220:15 297:6 299:11 <b>sea-level</b> 197:3 199:6 200:2,16,20,23 203:2, 6,9 209:16 210:11 211:2,7 222:16 233:5 295:14 296:8,18 297:4, 15 298:23 299:22 300:3,15 301:1 302:2, 5,22 304:22 <b>seat</b> 244:23 <b>secluding</b> 254:15 <b>second-highest</b> 259:22 <b>seconds</b> 174:16 <b>secretaries</b> 258:5 <b>Secretary</b> 167:8 168:20 178:14 185:5 190:20 191:4 203:21 221:19 236:23 251:10, 11 309:21 <b>Section</b> 223:23 224:15 227:22 318:10	<b>sections</b> 254:24 <b>sector</b> 282:8,14 283:3 <b>secure</b> 321:12 <b>secured</b> 255:24 <b>securing</b> 187:23 <b>security</b> 321:24 <b>seeking</b> 215:7 <b>seeks</b> 176:5,12 <b>sees</b> 309:10 <b>segregation</b> 263:2 <b>select</b> 165:9,11 173:2,5 236:3 <b>self-evident</b> 312:7 <b>self-help</b> 265:20 <b>seminars</b> 301:1 <b>Senate</b> 264:2 <b>Senators</b> 189:11,13 <b>send</b> 184:17 <b>senior</b> 191:6 <b>sense</b> 214:17 233:5 237:14 241:2 276:12 282:9 297:11,20 298:21 <b>sensitive</b> 194:24 <b>sentence</b> 227:8,18 <b>separate</b> 254:13 276:21 <b>sequentially</b> 205:19 <b>series</b> 222:3 <b>serve</b> 258:13 277:7,21 280:17 281:22 284:12 310:22,24 312:1,2 325:4 <b>served</b> 310:5 311:23 315:8 324:11 325:12, 18,19 <b>service</b> 169:3 184:17 255:18 266:7 276:24 277:5,17 303:6 310:20 314:8 317:1 322:23 323:4 324:19	<b>services</b> 254:13,20,21 255:24 256:11,14 271:16 272:8 293:23 <b>serving</b> 168:24 277:2 312:8 <b>session</b> 238:18 289:22 <b>set</b> 189:11,17 212:17 265:5 267:23 268:4 297:1 <b>sets</b> 207:8 <b>setting</b> 212:6 230:12 <b>settle</b> 234:13 <b>settled</b> 228:11 <b>severe</b> 167:17 185:24 186:5 <b>severity</b> 260:20 <b>Sewer</b> 300:22 <b>Shalanda</b> 169:2 262:7 <b>share</b> 179:23 185:14 260:5 <b>shared</b> 299:19 <b>shares</b> 179:14 <b>sharing</b> 179:1 <b>sheet</b> 272:14 <b>sheets</b> 201:3 302:3 <b>shield</b> 294:24 <b>shift</b> 195:7 232:19 <b>shifted</b> 231:6 <b>shifting</b> 248:16 <b>shifts</b> 219:20 <b>shore</b> 196:23 <b>shoreline</b> 179:18 180:11 <b>short</b> 184:16 197:12 277:23 315:5 <b>short-term</b> 314:5 <b>shorter</b> 168:5 <b>shoulder</b> 182:7 244:1 <b>shouldered</b> 179:23	<b>shouldering</b> 183:18 243:23 <b>show</b> 188:7 201:3,21 205:14 208:23 265:9 284:15 301:4 <b>showing</b> 201:18 224:7, 23 225:22 226:3 229:22 238:8 244:18, 22 <b>shown</b> 213:13 316:4 <b>shows</b> 185:21 186:24 197:6 213:11 222:20 <b>shunt</b> 281:11 <b>shut</b> 225:23 313:8 <b>shuttle</b> 242:11 <b>sic</b> 214:1 <b>side</b> 202:23 229:9 240:9,11 249:1,22,23 250:3,5 271:2 287:20 288:1 305:21,23 306:1, 2 317:10 <b>sidetracked</b> 290:4 <b>sidewalk</b> 239:3 <b>sign</b> 174:19,21 <b>signal</b> 320:18 <b>signed</b> 175:5,18,20 176:21 <b>significant</b> 171:6 197:7 208:5,6 209:24 248:13 289:18 297:16 310:4 311:8 313:5 316:6 <b>significantly</b> 195:4 <b>silence</b> 254:24 <b>silenced</b> 181:13 <b>Silvestro</b> 273:16,22 274:1 <b>similar</b> 205:9 248:11 302:8 310:8 <b>simple</b> 265:7 <b>simply</b> 202:7 217:20 244:18 <b>simultaneous</b> 253:19,
<hr/> <b>S</b> <hr/>				
<b>safe</b> 261:1 <b>safeguard</b> 261:22 263:13 <b>safely</b> 245:12 266:21 267:12 299:8 <b>safer</b> 182:23 295:9 <b>safety</b> 180:5,18 186:14 265:21 294:14,24 300:4 305:16 323:4 <b>Salem</b> 196:16 <b>Sandy</b> 245:23,24 <b>sat</b> 254:4 <b>satisfied</b> 181:6 <b>scalable</b> 321:16 <b>scale</b> 208:9 282:5 <b>scaling</b> 295:7 <b>scared</b> 273:23 <b>scavenger</b> 321:22 <b>scenario</b> 197:17 200:11 209:1,8 213:2 313:21 <b>scenarios</b> 197:11,13				

<p>22 254:7,19 255:3 258:18 271:18</p> <p><b>simultaneously</b> 197:19</p> <p><b>Sincerely</b> 188:15</p> <p><b>single</b> 235:7</p> <p><b>sit</b> 280:23</p> <p><b>site</b> 179:19 196:22 197:2,7 203:10,15 209:24 211:15 212:2 227:14,16 232:2,5 233:11,12 234:14 237:8 240:18,21,23 245:12 249:10,12 265:7 276:11 281:1 285:9,21 287:3,8,9 288:2,14 295:14,24 296:20 297:5 298:6,23 299:2,8 300:8 301:4 302:23 305:13 306:2 309:8 311:13,14</p> <p><b>site's</b> 232:1</p> <p><b>site-specific</b> 231:5</p> <p><b>sited</b> 180:5 227:20 228:4</p> <p><b>siting</b> 167:4,10,11,14 168:11,23 169:1,11,14, 19 170:3,6,10 172:1 174:3,8,9,18 175:1 176:6,7 181:6 185:8 186:15 188:21 189:6 191:18,22 237:11 245:11 251:12,22 252:9,14 253:20 254:1 255:11 256:18 257:22 259:5 262:2,11 263:1, 22 264:11,14,15 266:9, 11,14 276:6,19 285:20 286:21,23 287:18 288:5,8,9 289:1,24 290:16,18,23 291:8,9, 20 292:17 294:5 298:12,19 306:6,24 308:4,18 309:5 311:9 312:18 313:3 315:23, 24 316:10,11,19 318:15,19,20,24 320:8, 14</p> <p><b>sitting</b> 211:15</p>	<p><b>situation</b> 244:16 277:23 307:6 310:14 314:3 325:1</p> <p><b>situations</b> 276:15 307:20 314:4</p> <p><b>Sixth</b> 256:4</p> <p><b>size</b> 280:22</p> <p><b>sky</b> 231:10</p> <p><b>slight</b> 242:16,19</p> <p><b>slippery-slope</b> 312:17</p> <p><b>slow</b> 186:3 198:14</p> <p><b>slower</b> 260:12</p> <p><b>slowly</b> 171:21</p> <p><b>small</b> 242:19</p> <p><b>snow</b> 167:17</p> <p><b>society</b> 198:19 206:13 246:16</p> <p><b>soil</b> 246:10</p> <p><b>solar</b> 229:17</p> <p><b>solicit</b> 291:13</p> <p><b>solution</b> 166:7 246:2 254:12 298:2</p> <p><b>solutions</b> 246:24</p> <p><b>sooner</b> 197:5 203:7,11 214:8 222:22</p> <p><b>sophisticated</b> 284:3</p> <p><b>sort</b> 212:7 219:20 220:21 236:13 245:18 248:23 270:5 275:5 279:6 281:3 282:15,20 283:23 284:5 291:1 292:14 293:11 294:24 299:19 300:4 302:12 304:7 305:14 307:16 308:5 313:9,14,23 314:2 316:16</p> <p><b>sounds</b> 211:11 274:6 315:14</p> <p><b>source</b> 216:5</p> <p><b>sources</b> 198:6 283:1</p> <p><b>space</b> 186:12 240:22, 24 241:7 262:14 282:22</p>	<p><b>span</b> 202:4 229:9</p> <p><b>spanish</b> 165:8,11 166:2,4,7,8,11,17,20 167:1 172:13 173:2,4, 8,10,12,16,21 174:2,6 205:10 270:24 272:19 273:1 293:16 294:3</p> <p><b>Spanish-</b> 253:8 255:20</p> <p><b>Spanish-language</b> 255:12</p> <p><b>Spanish-speaking</b> 258:10</p> <p><b>Spanish-to-english</b> 172:23</p> <p><b>spans</b> 259:16</p> <p><b>sparingly</b> 316:13</p> <p><b>speak</b> 166:4 171:20 173:8 174:15 176:21 177:12 178:15,20 184:2 187:17 204:3 239:13 251:4 266:23 269:16 294:1</p> <p><b>speaker</b> 165:17 171:21 172:7 173:6 254:18</p> <p><b>speaker's</b> 165:22</p> <p><b>speakers</b> 174:15</p> <p><b>speaking</b> 165:19 171:20,22 172:14,15, 17 191:21 204:6,8 254:4,17 255:21 262:11</p> <p><b>speaks</b> 240:12 262:21</p> <p><b>specialists</b> 293:6</p> <p><b>specific</b> 195:20 216:7 230:20 231:4 248:20 304:20</p> <p><b>specifically</b> 188:12 196:19 227:8 262:16 267:17</p> <p><b>specifics</b> 290:6</p> <p><b>speculation</b> 229:21 233:16</p> <p><b>speeds</b> 260:12,14</p>	<p><b>spend</b> 314:24</p> <p><b>spoke</b> 274:21 293:16</p> <p><b>spoken</b> 173:6 175:11 203:18</p> <p><b>spot</b> 178:7</p> <p><b>square</b> 280:20 299:2,4 309:23</p> <p><b>stability</b> 246:10</p> <p><b>staff</b> 169:1 174:18 177:6 197:9 224:3,19 231:2 251:11 255:11, 23 258:14 261:7 265:3 269:24 293:2 295:19 298:12 306:6 313:1</p> <p><b>stakeholders</b> 169:21 192:8</p> <p><b>stakes</b> 197:20</p> <p><b>staler</b> 229:5</p> <p><b>stand</b> 244:5</p> <p><b>standard</b> 197:14,20 198:16 279:23 280:2 313:10 314:13 316:4,7</p> <p><b>standards</b> 202:1 277:18 278:8,20 292:15 316:1 323:5,9, 17,18 324:2</p> <p><b>standpoint</b> 302:12</p> <p><b>stands</b> 215:19 261:16</p> <p><b>star</b> 172:5,9 175:17</p> <p><b>start</b> 191:1 204:18 206:4 207:3 209:15 210:14,21 258:6 275:12 284:13 291:5 312:14,20 326:3</p> <p><b>started</b> 200:17 302:7</p> <p><b>starting</b> 211:1</p> <p><b>starts</b> 211:8</p> <p><b>state</b> 169:10 175:7 177:11 178:20 180:12 184:1 185:12,16 189:13,14 193:11,12 194:1,15,18 196:16 199:2 201:20 218:13, 16 219:18 220:2 244:6 253:12 266:19 267:7,</p>	<p>10 276:2 282:3,11 308:7,23 324:1</p> <p><b>State's</b> 260:14 302:8</p> <p><b>stated</b> 195:1 261:23 299:17</p> <p><b>statement</b> 204:6 221:2 223:3 253:7 294:13</p> <p><b>statewide</b> 229:14 322:20</p> <p><b>station</b> 241:13,17 265:15 276:9,10 281:21 283:14 287:24 289:20 299:24 300:5 301:12 305:23 311:10 321:19 322:6,11,14 324:13,16 325:4</p> <p><b>status</b> 203:22 260:22 285:5 323:22</p> <p><b>statute</b> 224:15 226:9, 11,21 227:3 228:15 234:23</p> <p><b>statutory</b> 227:21 228:5 308:5</p> <p><b>stay</b> 289:12</p> <p><b>steamrolling</b> 188:9</p> <p><b>Stefanie</b> 189:22</p> <p><b>stenographer</b> 171:10, 16 172:19 222:12</p> <p><b>step</b> 173:16 202:19 274:19 309:4,10 312:9 313:17 317:8</p> <p><b>step-</b> 231:13</p> <p><b>step-load</b> 230:19,21 309:2</p> <p><b>steps</b> 233:3 257:20</p> <p><b>stifle</b> 181:22</p> <p><b>stilts</b> 246:2</p> <p><b>stocking</b> 242:3</p> <p><b>stop</b> 171:7 211:21</p> <p><b>stopping</b> 188:8</p> <p><b>storage</b> 186:9</p> <p><b>storm</b> 180:9 185:24 186:6 210:19,23 211:2</p>
--	--	--	---	---



297:3,7 300:2	196:20,23 197:17	<b>summer</b> 278:4 279:4 284:10	<b>T</b>	<b>tend</b> 236:2 305:18 317:15
<b>storms</b> 210:12 299:22 301:1,10	199:18 203:15 210:2 212:2 216:7 221:7 227:21 228:3 232:7,14, 21,23 233:2,8 236:6 237:12 239:12 242:15, 20,23 243:16 244:16 245:15,17 247:11 248:24 249:4 262:4 264:23 265:7 277:9,19 280:13,19,22 281:4,15, 17,18 285:1,22 286:3,4 287:12,14 288:19,23 289:5,15 306:1 311:3 314:17,20,23,24 315:8 320:10 321:23 322:21 324:22 325:21	<b>sunk</b> 265:16 <b>super</b> 321:6 <b>Superstorm</b> 245:24 <b>supplied</b> 233:2 324:15 <b>supply</b> 181:4 277:14 278:9 308:6 324:24 325:6,20 <b>support</b> 256:13 <b>supported</b> 320:8 <b>supporting</b> 181:3 196:7 197:24 <b>supports</b> 183:22 <b>supposed</b> 227:22 <b>surface</b> 201:13 <b>surge</b> 211:2 <b>surging</b> 305:18 <b>surprise</b> 293:11 <b>surprisingly</b> 208:13 <b>surrounding</b> 182:17 290:7 <b>susceptibility</b> 296:19 <b>susceptible</b> 265:24 299:20 <b>suspending</b> 169:16 <b>sustainability</b> 196:14 <b>sustained</b> 229:18 <b>swales</b> 246:23 <b>swap</b> 247:10 249:3,6 286:16 <b>SYSPLAN</b> 323:18 <b>system</b> 201:4 229:7 278:13,15 281:12 305:11 307:22,23 308:2,9 309:1,11 310:4 312:6,10 313:18 323:1, 20,23 <b>systematically</b> 259:3 <b>systemic</b> 263:2	<b>table</b> 201:18 206:2,5 224:5,20 <b>tackling</b> 217:14 <b>takes</b> 181:24 <b>taking</b> 170:4 233:3 276:1 279:6 289:7 315:2 <b>talk</b> 179:3 275:15 279:16 309:17 321:11 <b>talked</b> 306:5 321:10, 16 <b>talking</b> 209:17 211:12 249:14 293:24 304:15 306:3 314:12 315:21 <b>talks</b> 289:1 <b>Tam</b> 189:22 <b>tanks</b> 179:18 180:17 182:19 186:10 242:24 <b>task</b> 256:2 <b>teachable</b> 257:23 <b>team</b> 239:10 <b>technical</b> 170:21 171:6,13 199:1 226:18 254:22 255:3 256:13 282:4 <b>technicalities</b> 272:4 <b>technological</b> 178:18 <b>telephone</b> 166:8 173:11 <b>tells</b> 245:2 <b>temperature</b> 201:13 278:24 279:15 <b>temperatures</b> 278:18, 22 279:3,14 <b>temporary</b> 314:5 <b>ten</b> 185:1,16 274:4 278:7,11 302:10 303:1 318:23 319:2 <b>ten-second</b> 274:22 <b>ten-year</b> 229:8,9	<b>tended</b> 238:6 <b>tenor</b> 253:14 <b>tens</b> 260:10 <b>tentative</b> 167:23 169:24 170:2,3 176:2, 19,22 185:7 188:11,23 191:18 197:23 201:17 206:2 237:2 253:14 255:10,12 256:20 258:12 261:9 266:13 272:13 276:1 285:18 294:15 298:13 325:17 <b>term</b> 220:10 314:2 315:6 318:14,15 <b>terms</b> 228:23,24 237:13,17 238:15 241:3,19 245:19 249:16 268:21,24 269:16 275:17 282:6, 15 286:5 301:1 302:12, 21,22 <b>terrain</b> 295:3 <b>terrific</b> 190:22 <b>territory</b> 276:24 277:5,17 310:21 314:8 <b>Tesla</b> 242:1 <b>testify</b> 251:20 254:3 <b>testimony</b> 184:11 191:12 192:4 204:19 210:6 215:2,13,17 216:14 217:8,9,11 218:2,3 228:20 299:10, 12 320:6 <b>text</b> 170:21 <b>themes</b> 312:12 <b>then-</b> 262:6 <b>then-presiding</b> 271:10 <b>Theoharides</b> 165:3 166:21 167:7 173:22 177:8,16,20,22 178:8, 12 183:24 184:13 185:3,5 188:17 190:22 191:1 196:10 203:16

<p>204:10 212:21 214:19 221:21 222:5,10,12 226:17 234:2,15 235:10,23 236:15,24 239:8 245:5 248:8 250:9,22 251:2,7 267:1 269:20 270:2 273:10, 19,24 274:7,10 275:8 278:1,17 279:5,16 281:2,24 284:16 285:15 289:11 301:21, 24 303:14,18 304:14, 24 305:3,6,20 306:8,16 320:17,23 321:4 325:24</p> <p><b>theoretically</b> 319:1</p> <p><b>thing</b> 205:8 211:23 229:1 230:17 237:19 301:18 311:22 315:1</p> <p><b>things</b> 200:13 206:19 210:8 218:21 224:12, 19 241:21 242:14 246:11,20 268:10 269:3,11 275:13 281:11 299:4 309:12 317:15</p> <p><b>thinking</b> 223:13 305:9</p> <p><b>third-party</b> 195:21</p> <p><b>thought</b> 201:5 204:15, 24 293:19 314:22</p> <p><b>thousand</b> 280:20</p> <p><b>thousands</b> 260:10</p> <p><b>three-minute</b> 174:17, 20</p> <p><b>threshold</b> 217:14 223:5,13,14,20 225:19 279:15 313:20 314:14, 15</p> <p><b>throw</b> 219:21</p> <p><b>Ticona</b> 189:21</p> <p><b>tide</b> 210:17,20 211:1</p> <p><b>tie</b> 209:22</p> <p><b>tied</b> 198:20 206:21</p> <p><b>tight</b> 311:17</p> <p><b>time</b> 167:22 171:5 174:11,16,24 175:14</p>	<p>183:23 184:16 190:21 194:23 195:2 197:12 199:9 201:12 208:9,10, 14 211:13 213:1,17,21 217:9 218:2,4,14 223:22 224:3 225:6,21 228:7 229:3 232:24 233:24 234:7,17 236:17 238:1,13,22 244:19 246:12 249:13 250:2,15 254:23 255:21 257:21 263:17 269:11 275:6,10,20 278:12 279:2 284:4,14 286:8,9 296:5,16,21 297:17,22 298:1 299:6 301:15 302:15,24 303:8 307:24 308:16, 24 309:7,13,16,18 313:14 316:17 319:8, 14</p> <p><b>timely</b> 188:22 202:22</p> <p><b>times</b> 166:14 173:18 243:13 293:9</p> <p><b>Title</b> 187:13</p> <p><b>today</b> 165:12 167:11, 19 168:12 169:11 171:23 172:1,12 174:1 175:1 176:1,18 177:14 178:19,20 179:2 184:5, 12 188:4,19 191:21 192:16 198:17 201:15 210:10 217:24 221:17 233:23 242:17 243:15 244:9 251:17 259:2 266:24 269:7,11</p> <p><b>today's</b> 165:5 172:23 260:15 278:19</p> <p><b>told</b> 231:2,8 271:11</p> <p><b>tomorrow</b> 168:1</p> <p><b>tools</b> 263:12 264:15 291:14</p> <p><b>top</b> 201:21 205:22 210:19,20 219:6</p> <p><b>topic</b> 294:14</p> <p><b>topography</b> 295:3</p> <p><b>topping</b> 213:11</p> <p><b>touch</b> 257:8</p>	<p><b>touched</b> 324:9</p> <p><b>town</b> 181:17 236:11 318:13,17</p> <p><b>towns</b> 235:4</p> <p><b>track</b> 231:12</p> <p><b>transcribe</b> 171:11</p> <p><b>transcript</b> 174:5,9 272:17,18</p> <p><b>transcripts</b> 272:22</p> <p><b>transform</b> 281:19 282:23</p> <p><b>transformer</b> 240:2 324:17</p> <p><b>transformers</b> 281:7</p> <p><b>translated</b> 205:10 272:12,13,15,19 292:22</p> <p><b>translating</b> 165:8</p> <p><b>translation</b> 254:23 255:12 271:13 293:23</p> <p><b>transmission</b> 176:7 228:2 235:5 276:7,8,18 277:1,2,6,8,13 278:14 280:10,15 281:9,14 308:1 310:23 311:6,19 312:8 320:9 323:9 324:13,21 325:2,18</p> <p><b>transmission-level</b> 281:19</p> <p><b>transparency</b> 312:13</p> <p><b>transparent</b> 186:21 187:8 275:22</p> <p><b>transpired</b> 215:13 225:7</p> <p><b>Transportation</b> 199:4 257:7</p> <p><b>travel</b> 263:4</p> <p><b>treat</b> 246:17</p> <p><b>treatment</b> 253:14</p> <p><b>trees</b> 186:12</p> <p><b>trend</b> 219:10,13 220:16 221:6 229:22 314:2</p>	<p><b>trends</b> 195:7 219:2 229:13</p> <p><b>trespassing</b> 321:18</p> <p><b>trigger</b> 314:16</p> <p><b>triggered</b> 307:8</p> <p><b>triggering</b> 216:22</p> <p><b>trips</b> 283:18</p> <p><b>trucks</b> 182:20</p> <p><b>true</b> 194:10 220:17 244:15 256:23 270:20</p> <p><b>Trust</b> 233:15</p> <p><b>Tuesday</b> 255:20</p> <p><b>turn</b> 175:11 178:9 203:17 282:1</p> <p><b>turnout</b> 258:16</p> <p><b>turns</b> 168:8</p> <p><b>tweaked</b> 238:21</p> <p><b>Twitter</b> 266:2</p> <p><b>two's</b> 297:2</p> <p><b>two-transformer</b> 281:17</p> <p><b>two-way</b> 166:7 173:10</p> <p><b>two-year</b> 314:2</p> <p><b>type</b> 271:10 278:23 281:4,5 313:9 316:1</p> <p><b>types</b> 246:7 262:14,17, 19 279:1 281:13 291:17 292:18,20,21 296:9,17 297:17,20 298:20 304:5 308:3 313:23 323:16</p> <p><b>typical</b> 299:4</p> <p><b>typically</b> 210:10 279:22 322:23</p> <hr/> <p><b>U</b></p> <hr/> <p><b>U.S.</b> 170:16 187:11 189:11,12 256:20 257:3 262:8</p> <p><b>ubiquitous</b> 284:2</p> <p><b>ultimately</b> 192:10</p>	<p>218:6,17 235:13 248:14 254:20 261:4 276:10 286:12,18 287:3 292:9 297:21</p> <p><b>umbrage</b> 317:21</p> <p><b>unable</b> 254:5,16</p> <p><b>unauthorized</b> 321:13</p> <p><b>unaware</b> 322:11</p> <p><b>uncertainty</b> 208:17 212:24 213:20 214:5 220:3</p> <p><b>unchanged</b> 192:11,22 218:9</p> <p><b>unclear</b> 195:6 216:3</p> <p><b>underestimating</b> 197:10</p> <p><b>undergone</b> 292:3</p> <p><b>underlying</b> 195:17 204:2 215:3,24 217:17, 18,21 223:24 224:14 225:12 226:1,8,11,22 227:1 228:18,22 229:4 230:1 231:9 239:16 251:23 252:3 253:2,11, 20 258:21 263:17 270:9 273:14 317:22 318:2</p> <p><b>undermining</b> 246:9</p> <p><b>underserved</b> 263:5</p> <p><b>understand</b> 193:17 205:19 208:3 210:4,7 223:16 224:9 230:14 252:13 255:7 257:8 258:22 265:1 267:5 294:8</p> <p><b>understanding</b> 190:20 201:2 202:14 204:21 214:24 225:18 229:2 230:11 234:5,7 247:10 263:16 267:15 274:11 282:4 298:9 310:1</p> <p><b>understands</b> 249:11</p> <p><b>understood</b> 254:1</p> <p><b>underwater</b> 210:18 247:1</p>
--	---	---	--	--

<b>underway</b> 254:14 310:2	<b>urged</b> 260:23	172:15 182:14 259:2	<b>waterfront</b> 180:6	<b>witnessed</b> 255:8 256:5
<b>undoubtedly</b> 194:10	<b>urgent</b> 188:7	<b>voices</b> 181:13 257:15 258:10	<b>waters</b> 295:13,15 297:7 305:18	<b>witnesses</b> 189:9
<b>unfolds</b> 200:11	<b>urgently</b> 287:13	<b>voltage</b> 281:19,20 303:16 307:22	<b>ways</b> 265:23	<b>woefully</b> 254:21
<b>unfortunate</b> 183:17	<b>utilities</b> 168:13,15 187:14 322:21,23 323:7	<b>vote</b> 167:22 170:2 176:19 191:17 272:24	<b>wealthier</b> 242:6 260:1,13 263:6	<b>wondered</b> 269:23 293:17
<b>Union</b> 186:23	<b>Utilities'</b> 174:4	<b>voted</b> 265:14	<b>weather</b> 167:17 197:4 278:6,12 279:10,11,12	<b>wonderful</b> 246:23
<b>unique</b> 193:16 195:18 220:14,24	<b>utility</b> 279:23 295:8	<b>vulnerabilities</b> 188:1	<b>Web</b> 174:10	<b>wondering</b> 184:8 232:3,11 233:16 239:13 302:5 303:19
<b>universal</b> 289:18	<hr/> <b>V</b> <hr/>	<b>vulnerability</b> 324:19	<b>Webinar</b> 181:21	<b>Woodcock</b> 168:15 236:23 237:1 238:9 239:7 284:18,19 287:1, 17 288:12 289:10
<b>universities</b> 199:1	<b>vacant</b> 240:16	<b>vulnerable</b> 196:18 247:6 323:23 325:1	<b>website</b> 170:19 174:5 216:2,3 217:6 273:2	<b>wooden</b> 243:9
<b>University</b> 196:16	<b>vague</b> 198:18	<hr/> <b>W</b> <hr/>	<b>weigh</b> 249:20	<b>Woods</b> 177:6,19 189:9 190:12,16,24 191:2,3,6 214:22,24 215:4,8,11, 21 216:1,8,10,20,24 217:20 218:21 219:6, 11,13 220:8 221:10,18 224:5,22 225:12 228:21 264:18
<b>unlike</b> 262:3	<b>variable</b> 282:10	<b>wait</b> 177:1 261:17 322:23	<b>well-documented</b> 180:8	<b>word</b> 209:1
<b>unmute</b> 171:20 250:11 274:2	<b>variety</b> 179:16 201:19 300:24	<b>waiting</b> 177:7	<b>well-founded</b> 180:3	<b>words</b> 172:20 265:18 318:12
<b>unnecessary</b> 266:15 296:2	<b>varying</b> 199:6 208:18	<b>Walkey</b> 177:4,19,20 184:6,19 185:5 186:2,5 188:18 190:12 237:14 238:13 239:15 249:19, 21 262:23 269:15	<b>west</b> 176:14 287:8,9	<b>work</b> 184:12 198:23 246:6 255:6 260:5 268:15 283:18 291:2 302:8
<b>unquote</b> 199:19	<b>vehicles</b> 283:5,9,11,16 284:1,11	<b>Walkey's</b> 232:24	<b>westerly</b> 286:3	<b>workday</b> 181:19 238:6,19
<b>unrealistic</b> 199:13	<b>vehicular</b> 263:4	<b>wall</b> 239:2 294:16,21 295:10 304:15,19 305:8,9,14,16 306:2 321:11	<b>western</b> 240:11 286:17 288:1	<b>worked</b> 243:11
<b>unrelated</b> 279:21	<b>Vermont</b> 251:18	<b>walls</b> 305:22 322:1	<b>wetlands</b> 303:21 306:10	<b>workers</b> 260:4
<b>unresolved</b> 252:8	<b>version</b> 167:1 255:15	<b>wanted</b> 205:2 228:11 249:20 270:5 273:6 274:18,20 275:9 276:2	<b>Weymouth</b> 265:15,17	<b>working</b> 217:11 272:3
<b>untrue</b> 253:8	<b>versus</b> 208:4 256:7 260:12	<b>warm</b> 243:17	<b>whiter</b> 263:6	<b>working-class</b> 180:22 182:5 188:6
<b>unwarranted</b> 180:15	<b>VI</b> 187:13	<b>warmer</b> 201:14	<b>wide</b> 208:11 292:5	<b>works</b> 237:15 309:15
<b>unwind</b> 249:6	<b>video</b> 171:15 174:1 254:14 321:24	<b>Warren</b> 189:12	<b>widely</b> 198:11	<b>worried</b> 243:10
<b>up-to-date</b> 217:10	<b>view</b> 223:14 302:21	<b>wastefully</b> 314:24	<b>widened</b> 200:20	<b>worse</b> 202:16 247:24 249:13
<b>upcoming</b> 175:21	<b>viewing</b> 223:7	<b>watch</b> 302:19 323:11	<b>widespread</b> 186:18 281:3	<b>wrap</b> 174:16 244:11
<b>update</b> 218:10 285:4,8 286:20	<b>views</b> 295:1 319:20	<b>watching</b> 184:21	<b>width</b> 208:15	
<b>updated</b> 192:17 206:24 207:8,10 217:22,24 218:5 225:4	<b>vintage</b> 217:20 218:1 307:1	<b>water</b> 186:1,7 210:9, 23,24 211:2,5,18,22 212:1 214:2,6,8 220:22 246:9,12 247:5,19 282:23 300:22 305:11, 12	<b>wild</b> 180:24 183:3 241:1 295:2	
<b>updates</b> 169:9 302:9 306:23	<b>violated</b> 226:10,21 227:4	<b>warrior</b> 201:14	<b>window</b> 214:14	
<b>updating</b> 192:23	<b>violation</b> 226:9 317:23	<b>watching</b> 184:21	<b>winter</b> 284:9	
<b>upper</b> 200:20 209:11 213:13	<b>virtual</b> 268:24 269:4	<b>water</b> 186:1,7 210:9, 23,24 211:2,5,18,22 212:1 214:2,6,8 220:22 246:9,12 247:5,19 282:23 300:22 305:11, 12	<b>Winthrop</b> 310:12	
<b>upper-range</b> 199:12	<b>virtually</b> 280:8	<b>watching</b> 184:21	<b>wise</b> 288:8	
<b>urban</b> 180:24 183:2 241:1 280:21 295:2 299:3 311:17	<b>visibility</b> 233:18	<b>water</b> 186:1,7 210:9, 23,24 211:2,5,18,22 212:1 214:2,6,8 220:22 246:9,12 247:5,19 282:23 300:22 305:11, 12	<b>wishes</b> 174:15 195:1	
<b>urge</b> 188:10	<b>visiting</b> 251:17	<b>watching</b> 184:21	<b>withstand</b> 308:3	
	<b>voice</b> 165:17,19,22	<b>watching</b> 184:21		

**wrench** 219:22**write** 173:11**written** 188:22 189:3  
190:1 191:16 197:22  
255:16**wrong** 221:3 222:18  
291:1 307:17**wrought** 194:22  
259:18**Wu** 184:7 188:15  
189:16,18

---

**Y**

---

**year** 187:9 192:16,21  
193:3,5,9 201:8 212:4  
217:3,4,7 218:23  
237:23 284:11 292:4,7  
304:2 309:22 313:16,  
22 316:22**years** 180:10 182:21  
185:16,17 193:5  
201:11 202:5 219:15  
220:4 224:2,17 229:20  
240:23 242:22 252:3  
258:3 259:4 261:17  
263:21 266:6 278:7,12  
280:2,6 283:9 296:6,7,  
21 301:8,18,19 302:10  
303:1 307:5 308:15  
310:3 312:10 315:6  
316:22**Yesterday** 264:1**York** 246:1**Young** 204:22**Youtube** 166:24 174:4

---

**Z**

---

**zone** 180:7 196:24  
246:15**Zoom** 165:5,23  
169:12,22 170:7  
172:10 173:1 175:16  
178:6 181:21 256:7,10  
273:20 292:5