

STATE OF CONNECTICUT

SITING COUNCIL

* * * * *

NORTH ATLANTIC TOWERS, LLC and * OCTOBER 2, 2012
 NEW CINGULAR WIRELESS PCS, LLC * (1:00 p.m.)

APPLICATION FOR A CERTIFICATE OF *
 ENVIRONMENTAL COMPATIBILITY AND *
 PUBLIC NEED FOR THE CONSTRUCTION, * DOCKET NO. 427
 MAINTENANCE AND OPERATION OF A *
 TELECOMMUNICATIONS FACILITY *
 LOCATED AT ONE OF TWO SITES: 171 *
 SHORT BEACH ROAD, BRANFORD; OR *
 82 SHORT BEACH ROAD, EAST HAVEN, *
 CONNECTICUT *

* * * * *

BEFORE: ROBIN STEIN, CHAIRMAN

BOARD MEMBERS: Colin C. Tait, Vice Chairman
 Brian Golembiewski, DEP Designee
 Michael Caron, DPUC Designee
 Daniel P. Lynch, Jr.
 Edward S. Wilensky
 Philip T. Ashton
 James J. Murphy, Jr.
 Dr. Barbara Currier Bell

STAFF MEMBERS: Linda Roberts, Executive Director
 Robert Mercier, Siting Analyst
 Melanie Bachman, Staff Attorney

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1 . . .Verbatim proceedings of a hearing
2 before the State of Connecticut Siting Council in the
3 matter of an application by North Atlantic Tower LLC and
4 New Cingular Wireless PCS, LLC, held at the offices of
5 the Connecticut Siting Council, Ten Franklin Square, New
6 Britain, Connecticut, on October 2, 2012 at 1:00 p.m., at
7 which time the parties were represented as hereinbefore
8 set forth . . .

9
10
11 CHAIRMAN ROBIN STEIN: This hearing is
12 called to order today, Tuesday, October 2, 2012 at
13 approximately 1:00 p.m.

14 My name is Robin Stein and I'm Chairman of
15 the Connecticut Siting Council.

16 We're here relative to Docket No. 427 and
17 this is the continuation of a hearing that was held on
18 July 10, 2012 in East Haven and continued at the
19 Council's office on August 15th and September 11th of
20 2012.

21 The hearing is held pursuant to the
22 provisions of Title 16 of the Connecticut General
23 Statutes and of the Uniform Administrative Procedure Act
24 upon an application from North Atlantic Towers LLC and

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1 New Cingular Wireless PCS, LLC for a Certificate of
2 Environmental Compatibility and Public Need for the
3 construction, maintenance, and operation of a
4 telecommunications facility located at one of two
5 possible sites; 171 Short Beach Road in Branford or 82
6 Short Beach Road in East Haven, Connecticut. The
7 application was received by the Council on April 24,
8 2012.

9 A verbatim transcript will be made of the
10 hearing and deposited with the Town Clerks' Offices both
11 in East Haven and Branford Town Halls for the convenience
12 for the public.

13 We'll proceed in accordance with the
14 prepared agenda, copies of which are available at the
15 table over there.

16 We'll start with -- and I'm not sure he's
17 here -- the appearance of the Intervenor Mr. James
18 Berardi. Is he here? He's not.

19 (pause)

20 CHAIRMAN STEIN: Do any of the -- the
21 Applicant, parties, or intervenors have any objection to
22 taking in his written statement requesting intervenor
23 status? Hearing and seeing none, so we'll -- we'll admit
24 his written statements.

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1 (Whereupon, Berardi Exhibit No. 1 was
2 received into evidence.)

3 CHAIRMAN STEIN: Obviously we cannot do
4 any cross-examination, so we'll now go to the Intervenor
5 Mr. Criscuolo.

6 MR. DANIEL CRISCUOLO, SR.: Yes.

7 CHAIRMAN STEIN: You're present. And
8 we'll start by swearing you in. Please stand so --

9 MS. MELANIE BACHMAN: Raise your right
10 hand.

11 (Whereupon, Daniel Criscuolo, Sr. was duly
12 sworn in.)

13 MS. BACHMAN: Thank you.

14 MR. CRISCUOLO: Thank you.

15 CHAIRMAN STEIN: Mr. Criscuolo, I'm going
16 to go through the verification of your exhibit, which is
17 -- which I believe is Roman Numeral X, which you filed.
18 And first for identification purposes is there any
19 objection to that? Hearing and seeing none, I'm just
20 going to ask you a series of questions.

21 Mr. Criscuolo, did you prepare or assist
22 in the preparation of this exhibit?

23 MR. CRISCUOLO: I did.

24 CHAIRMAN STEIN: Do you have any

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1 additions, clarifications, deletions, or modifications?

2 MR. CRISCUOLO: No. Basically it's the
3 same.

4 CHAIRMAN STEIN: Thank you. Are these
5 exhibits true and accurate to the best of your knowledge?

6 MR. CRISCUOLO: They are.

7 CHAIRMAN STEIN: Do you offer these
8 exhibits as your testimony here today?

9 MR. CRISCUOLO: Yes, I do.

10 CHAIRMAN STEIN: And do you offer them as
11 full exhibits?

12 MR. CRISCUOLO: Yes.

13 CHAIRMAN STEIN: Is there any objection
14 from any of the -- from the Applicant or the parties or
15 intervenors to having these admitted as full exhibits?
16 Hearing and seeing none, they shall be admitted.

17 (Whereupon, Criscuolo Exhibit No. 1 was
18 received into evidence.)

19 CHAIRMAN STEIN: We'll now proceed with
20 cross-examination, starting with staff.

21 MR. ROBERT MERCIER: Thank you. Mr.
22 Criscuolo, I was just wondering where your -- where your
23 house was in relation to the East Haven site?

24 MR. CRISCUOLO: It's one piece of property

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1 away. The firehouse, James' property, and then mine.
2 It's 100 Short Beach Road.

3 MR. MERCIER: Okay, so you are west of the
4 site?

5 MR. CRISCUOLO: Yes.

6 MR. MERCIER: Were you at home during the
7 balloon fly on July 10th?

8 MR. CRISCUOLO: Yes, I was.

9 MR. MERCIER: And could you describe if -
10 - first of all, did you see the balloon from your
11 property?

12 MR. CRISCUOLO: I could see the balloon
13 and probably 15 feet of line even though there were
14 leaves on the trees in the summertime. It was the same
15 day of the hearing in East Haven.

16 MR. MERCIER: So it was above the trees?

17 MR. CRISCUOLO: Above the trees, yes.

18 MR. MERCIER: And from what portions of
19 your property did you see the --

20 MR. CRISCUOLO: From my front door.

21 MR. MERCIER: Okay.

22 MR. EDWARD S. WILENSKY: Sir, could you
23 move the microphone closer to you, that way the --

24 MR. CRISCUOLO: Is that better?

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1 MR. WILENSKY: The one on the table as
2 well.

3 MR. CRISCUOLO: It's a long reach. That
4 better?

5 MR. WILENSKY: Better.

6 MR. CRISCUOLO: Okay.

7 MR. WILENSKY: You look better and you
8 sound better -- (laughter) --

9 MR. CRISCUOLO: Okay. I can't hear myself
10 sometimes.

11 MR. MERCIER: Okay, thank you. I have no
12 other questions.

13 CHAIRMAN STEIN: Okay. We'll now go to
14 the Council Members to see if we have any questions.

15 MR. COLIN C. TAIT: No questions.

16 MR. PHILIP T. ASHTON: No questions.

17 CHAIRMAN STEIN: Mr. Wilensky.

18 MR. WILENSKY: No questions.

19 CHAIRMAN STEIN: Mr. Golembiewski.

20 MR. BRIAN GOLEMBIEWSKI: Yes, Chairman.
21 Hi, how you doing.

22 MR. CRISCUOLO: Good. How are you?

23 MR. GOLEMBIEWSKI: Mr. -- Crisuolo?

24 MR. CRISCUOLO: Criscuolo.

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1 MR. GOLEMBIEWSKI: Criscuolo.

2 MR. CRISCUOLO: You've got to roll it --

3 MR. GOLEMBIEWSKI: A Polish --

4 MR. CRISCUOLO: Yeah, it's -- (laughter) -

5 -

6 MR. GOLEMBIEWSKI: Just -- if you could
7 give me a summary of your position? Because I know I
8 read your testimony and it's -- it has different matters,
9 but just if you could summarize what --

10 MR. CRISCUOLO: Well, it's basically the
11 same: You know, being able to look at this tower or a
12 tree or a pole from my front door year-round is a very
13 disheartening thing for me; the stability of the land,
14 the relative -- whether it's relative or not, the health
15 situation. Other than that, I -- I stand my ground with
16 basically the rest of my counterparts. They're a lot
17 more knowledgeable than I am, but it's just my feelings
18 on this -- I'd just hate to see this thing out my front
19 door every day.

20 MR. GOLEMBIEWSKI: So you are recommending
21 the Branford site by your testimony --

22 MR. CRISCUOLO: I don't want to dump it on
23 anybody --

24 MR. GOLEMBIEWSKI: Okay --

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1 MR. CRISCUOLO: -- I don't want to -- I
2 don't want to do that to anybody. I wouldn't want that
3 next to me and I don't think anybody else would want it
4 next to them.

5 MR. GOLEMBIEWSKI: Okay.

6 MR. CRISCUOLO: I just don't feel it's
7 necessary. We've lived with this thing for 15 years I've
8 been in my home and so I can't always get a signal. I'm
9 up high. I usually get a signal all the time --
10 (laughter) -- but I don't drive and talk anyway, so it's
11 -- it's immaterial to me.

12 MR. GOLEMBIEWSKI: Okay, thank you. Thank
13 you, Chairman.

14 CHAIRMAN STEIN: Okay. Mr. Lynch.

15 MR. DANIEL P. LYNCH, JR.: You just --
16 excuse me, I've got a cold -- you just used the term
17 disability of the land. Could you explain that term?

18 MR. CRISCUOLO: Disability?

19 MR. LYNCH: I think that's what you said.

20 MR. GOLEMBIEWSKI: Visibility --

21 MR. CRISCUOLO: Visibility --

22 MR. LYNCH: Oh --

23 MR. CRISCUOLO: -- visibility from my
24 front door.

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1 MR. LYNCH: Sorry. My hearing isn't all -

2 -

3 MR. CRISCUOLO: Mine isn't either, but
4 today I'm good -- (laughter) --

5 MR. LYNCH: Thank you --

6 MR. CRISCUOLO: -- and the background is
7 quiet.

8 CHAIRMAN STEIN: Senator Murphy.

9 MR. JAMES J. MURPHY, JR.: Just to
10 clarify, I thought you said stability.

11 MR. CRISCUOLO: Well stability of the land
12 as far as the tower or a tree or a pole --

13 MR. MURPHY: Right --

14 MR. CRISCUOLO: -- yes.

15 MR. MURPHY: Okay. No, I understood --

16 MR. CRISCUOLO: Yes --

17 MR. MURPHY: -- what stability meant.

18 Okay.

19 MR. CRISCUOLO: Stability and visibility
20 both -- (laughter) --

21 MR. MURPHY: Okay. I heard -- I know
22 stability --

23 MR. CRISCUOLO: Your ears are better than
24 everybody's.

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1 MR. MURPHY: Very good.

2 CHAIRMAN STEIN: Dr. Bell.

3 DR. BARBARA C. BELL: I have no questions,
4 Mr. Chair, thank you.

5 MR. CRISCUOLO: Thank you.

6 CHAIRMAN STEIN: Okay. We'll now go
7 through the other parties and intervenors. Representing
8 AT&T?

9 MS. LUCIA CHIOCCHIO: No questions, Mr.
10 Chairman.

11 CHAIRMAN STEIN: Representing Cellco?
12 Attorney Shafer.

13 MR. JONATHAN SCHAEFER: No questions.

14 CHAIRMAN STEIN: Sarah Pierson.

15 MS. SARAH PIERSON: No questions.

16 CHAIRMAN STEIN: The Town of Branford.
17 Attorney Ainsworth?

18 MR. KEITH AINSWORTH: I have none, thank
19 you.

20 CHAIRMAN STEIN: Mr. Moreland?

21 MR. RICHARD MORELAND: No questions.

22 CHAIRMAN STEIN: Miss Whitehead?

23 MS. NIKI WHITEHEAD: I have no questions,
24 thank you.

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1 CHAIRMAN STEIN: I guess Mr. Berardi
2 unless he's made a stealth appearance also does not have
3 any questions. Mr. Williams?

4 MR. BRUCE WILLIAMS: No questions.

5 CHAIRMAN STEIN: So that's -- that's it
6 for you.

7 MR. CRISCUOLO: I'm out of here. Thank
8 you.

9 CHAIRMAN STEIN: And now we'll continue
10 our -- with the appearance of the Applicant. Attorney
11 Chiocchio.

12 (pause)

13 CHAIRMAN STEIN: Attorney Chiocchio, do
14 you have any new or additional witness that has to be
15 sworn in?

16 MS. CHIOCCHIO: Yes, thank you, Chairman.
17 We have a substitute, Mr. Adrian DeSantis for Mr. John
18 Stevens. Adrian is -- (indiscernible) -- with Infinigy
19 Engineering and he needs to be sworn in --

20 COURT REPORTER: One moment please. You
21 need to bring that over to you --

22 (pause - audio testing)

23 MS. CHIOCCHIO: So we have a substitute
24 witness, Mr. Adrian DeSantis for Mr. John Stevens.

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1 Adrian DeSantis is also with Infinigy Engineering. And
2 Adrian does need to be sworn in.

3 CHAIRMAN STEIN: Would you please stand.

4 MS. BACHMAN: Please raise your right
5 hand.

6 (Whereupon, Adrian DeSantis was duly sworn
7 in.)

8 MS. BACHMAN: Thank you.

9 CHAIRMAN STEIN: Please begin by verifying
10 any new exhibits.

11 MS. CHIOCCHIO: We have one exhibit,
12 Exhibit No. 18, the responses to the Siting Council's
13 Interrogatories, Set 3, along with some supplemental
14 information dated September 24, 2012.

15 So I'll -- I'll ask each of my witnesses a
16 series of questions, and I'll start with Mr. Mark Kiburz
17 on the end. Did you prepare and assist in the
18 preparation of the materials identified?

19 MR. MARK KIBURZ: I did.

20 MS. CHIOCCHIO: Mr. Howse.

21 MR. RANDY HOWSE: I did.

22 MS. CHIOCCHIO: Mr. DeSantis.

23 MR. ADRIAN DESANTIS: Yes, I did.

24 MS. CHIOCCHIO: Mr. Wells.

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1 MR. ANTHONY WELLS: Yes.
2 MS. CHIOCCHIO: Mr. Vivian.
3 MR. DAVID VIVIAN: Yes.
4 MS. CHIOCCHIO: And Mr. Libertine?
5 MR. MICHAEL LIBERTINE: Yes..
6 MS. CHIOCCHIO: Do you have any
7 corrections or clarifications to the information
8 contained therein?
9 MR. KIBURZ: Mark Kiburz. No.
10 MR. HOWSE: Randy Howse. No.
11 MR. DESANTIS: Adrian DeSantis. No.
12 MR. WELLS: Tony Wells. No.
13 MR. VIVIAN: Dave Vivian. No.
14 MR. LIBERTINE: Mike Libertine. No.
15 MS. CHIOCCHIO: Is the information
16 contained therein true and accurate to the best of your
17 belief?
18 MR. KIBURZ: Mark Kiburz. Yes.
19 MR. HOWSE: Randy Howse. Yes.
20 MR. DESANTIS: Adrian DeSantis. Yes.
21 MR. WELLS: Tony Wells. Yes.
22 MR. VIVIAN: Dave Vivian. Yes.
23 MR. LIBERTINE: Mike Libertine. Yes.
24 MS. CHIOCCHIO: And do you adopt it as

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1 your testimony in this proceeding?

2 MR. KIBURZ: Mark Kiburz. Yes.

3 MR. HOWSE: Randy Howse. Yes.

4 MR. DESANTIS: Adrian DeSantis. Yes.

5 MR. WELLS: Tony Wells. Yes.

6 MR. VIVIAN: Dave Vivian. Yes.

7 MR. LIBERTINE: Mike Libertine. Yes.

8 MS. CHIOCCHIO: And we ask that the

9 Council admit Item No. 18 as a full exhibit.

10 CHAIRMAN STEIN: Does any party or
11 intervenor object to the admission of this exhibit?

12 Hearing and seeing none, the exhibit is admitted.

13 (Whereupon, Applicant Exhibit No. 18 was
14 received into evidence.)

15 CHAIRMAN STEIN: We'll now proceed with
16 cross-examination on the additional information first
17 with staff.

18 MR. MERCIER: Thank you. In regards to
19 Set 2, Question 1, the last sentence basically says that
20 a flagpole type facility could be constructed here, but
21 require an increase in height. Do you have the total
22 height that would accommodate Verizon and AT&T based on
23 the antennas that you plan to use here?

24 MR. WELLS: For the Branford site in

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1 particular?

2 MR. MERCIER: That's correct --

3 MR. WELLS: Yes --

4 MR. MERCIER: -- I'm sorry, the Branford
5 site.

6 MR. WELLS: The -- for AT&T with our
7 minimum height of 120 feet and for the lowest antennas,
8 that would drive us to 150 feet. I can't speak for -- I
9 don't know all the details of Verizon's coverage
10 objective, but I would assume that they would not want to
11 go any lower than 110 feet. So if you assume that they
12 wouldn't want to go any lower than 110 feet, and they
13 wanted at least two spots, that would put them up to 120,
14 which would put our lowest antenna at 130, driving the
15 height to 160, again assuming they only needed two
16 heights. If they needed three, then that will drive it
17 to 170.

18 MR. MERCIER: Okay, thank you. I just
19 have two other general questions, and I need to have some
20 more information on it if that's okay --

21 CHAIRMAN STEIN: Go ahead.

22 MR. MERCIER: One is with regards to
23 utilities. I didn't see anything in the record that
24 indicated above ground or overhead that's proposed here.

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1 MR. DESANTIS: Both of these sites are
2 proposed underground utilities.

3 MR. MERCIER: Thank you. And Mr.
4 Libertine, there was previous testimony from Mrs.
5 Whitehead at the last hearing -- I think that was
6 September 11th -- she said she saw a balloon fly in the
7 spring of 2012. Do you know if you did one in the spring
8 of 2012? If so, what month or day and what height the
9 balloon was?

10 MR. LIBERTINE: The only record I have of
11 a spring balloon float would have been in June of 2011.
12 I don't believe there was a flight before the July 12th -
13 - or the July 2012 float done this year. So, I'm -- I'm
14 just not -- the only -- the only data gap that might
15 exist there is that VHB, who I formally worked with, was
16 responsible up to a certain point of this work, if they
17 in fact at gone out sometime before the hearing -- it's
18 highly unlikely because I was kept in the loop of this
19 docket for the transition. But I don't believe there was
20 anything done in the spring of this year. But certainly
21 June of 2011 was the last time that I'd been out to the
22 site and done a balloon float in the spring.

23 MR. MERCIER: Okay, thank you. I have no
24 other questions.

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1 CHAIRMAN STEIN: Thank you. We'll now
2 continue with questions from the Council.

3 MR. TAIT: No questions.

4 MR. ASHTON: No questions, Mr. Chairman.

5 CHAIRMAN STEIN: Mr. Wilensky.

6 MR. WILENSKY: With internal mounted
7 antennas, at what height could you -- could the Branford
8 site -- could the Branford site would have to -- what
9 height would the Branford site have to be with internal
10 mounted antennas?

11 MR. WELLS: Actually, I think I said 150
12 previously --

13 MR. ASHTON: One sixty --

14 MR. WELLS: -- but that was a
15 miscalculation, so --

16 MR. WILENSKY: I'm sorry, Mr. Wells?

17 MR. WELLS: For AT&T's purposes alone, 140
18 feet -- I think I said 150 before, but I forgot to count
19 --

20 MR. ASHTON: One sixty --

21 MR. WELLS: I did say 140 -- but then if
22 you include Verizon, and assuming that they have a
23 minimum height at 110, then they need 110, 120, and AT&T
24 needs 130, 140, and 150, so it would be 150.

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1 MR. WILENSKY: So in other words you would
2 need three positions, 150, 140, and 130?

3 MR. WELLS: We would need three and
4 Verizon, as I understand it, would need two.

5 MR. WILENSKY: Verizon then would down to
6 120, 110, and 100?

7 MR. WELLS: As I understand it, Verizon
8 would need two. If they needed three, then that would
9 raise the height to 160.

10 MR. WILENSKY: So in other words, then
11 using an internal mounted antenna as I read this, it
12 would not work on the East Haven site based on your
13 restrictions from the FAA, is that correct?

14 MR. WELLS: That's correct.

15 MR. WILENSKY: Okay. Thank you very much.
16 Thank you, Mr. Chairman.

17 CHAIRMAN STEIN: Thank you. Mr.
18 Golembiewski.

19 MR. GOLEMBIEWSKI: Thank you, Chairman. I
20 have some questions in regards to some of the stealth
21 designs or different slim profile. Exhibit 18 has I
22 guess a schematic of a unipole, I guess if you want to
23 use that, and it says it's 40-inch diameter. That's at
24 the top. And then it's more than five feet at the base.

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1 Does that taper?

2 MR. DESANTIS: Yes. The -- the diameter
3 at the top -- the dimension line at the top is four feet
4 --

5 MR. GOLEMBIEWSKI: Okay --

6 MR. DESANTIS: -- and not 40-inch. When
7 the antennas and equipment are laid out, it comes out to
8 be just about four feet.

9 MR. GOLEMBIEWSKI: So 48 inches at the
10 top?

11 MR. DESANTIS: Correct.

12 MR. GOLEMBIEWSKI: And then I think I see
13 -- unfortunately, I don't have my glasses --

14 MR. DESANTIS: Five foot --

15 MR. GOLEMBIEWSKI: -- five foot two --

16 MR. DESANTIS: Five-foot-two at the base -
17 -

18 MR. GOLEMBIEWSKI: -- at the bottom?

19 MR. DESANTIS: Correct.

20 MR. GOLEMBIEWSKI: Okay. And so if you
21 compare that to the normal -- to the pole with the
22 platform, the pole itself is 36-inch diameter normally --
23 what's the normal taper on that?

24 MR. DESANTIS: Typically -- typically at

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1 the top of the tower it's 36-inch at the top, five feet
2 at the bottom, so it's similar.

3 MR. GOLEMBIEWSKI: The one with the
4 platform on it?

5 MR. DESANTIS: Correct.

6 MR. GOLEMBIEWSKI: Oh, okay.

7 MR. DESANTIS: A typical monopole.

8 Obviously, you know, based on the loading --

9 MR. GOLEMBIEWSKI: Yeah --

10 MR. DESANTIS: -- the structural
11 suitability of it is subject to change, you know, based
12 on final loading --

13 MR. GOLEMBIEWSKI: Okay --

14 MR. DESANTIS: -- and the final
15 calculations. But -- but typically, it's about five feet
16 at the base --

17 MR. GOLEMBIEWSKI: Okay --

18 MR. ASHTON: Excuse me. Is that five feet
19 and three foot for a 120-foot monopole?

20 MR. DESANTIS: That could be on the high
21 side. A hundred and twenty feet --

22 MR. ASHTON: I'm seeing some eyebrows
23 fluttering on your side --

24 MR. LIBERTINE: Actually, I think just for

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1 clarification, depending on the height, depending on the
2 number of carriers that are planned for the pole, it can
3 vary. So, I --

4 COURT REPORTER: I'm sorry, could you
5 point that --

6 MR. LIBERTINE: I'm sorry. Actually, Mr.
7 Vivian and I were discussing on the sideline here that
8 we're familiar with some slimmer poles that, you know,
9 are being built or already in existence, you know, 36
10 inches at the base, and that may taper to 24 inches. I
11 don't think they go much lower -- in the old days we did
12 see some 24 inches down to 18. Those are pretty obsolete
13 these days. So, I think that's -- that's kind of the
14 range, 36 to 24 or more on the line of what Mr. DeSantis
15 had indicated.

16 MR. VIVIAN: And just to clarify, it's --
17 it's going to be height dependent. We're talking -- you
18 know, when Michael is talking about that very very slim,
19 it's for a shorter tower. The taller the tower, the
20 wider the base, and thicker the steel.

21 MR. GOLEMBIEWSKI: I know there's been
22 some testimony as to the high potential for wind in light
23 of its, you know, I guess juxtaposition near the ocean.
24 Is that of any concern with that widen any type of

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1 monopole there or no?

2 MR. DESANTIS: Certainly the location, the
3 geographic location is all taken into consideration when
4 the tower is designed, so all that does factor in. But
5 again, as Mr. Libertine had discussed, those -- you know,
6 those are typical ranges and they're pretty common for
7 this type of area. But obviously, the final -- the final
8 diameter would be designed when the structural is
9 completed.

10 MR. GOLEMBIEWSKI: Okay.

11 MR. VIVIAN: And that comes -- that comes
12 into play as D&M tower --

13 MR. GOLEMBIEWSKI: Yeah --

14 MR. VIVIAN: -- the foundation and the
15 steel --

16 COURT REPORTER: I'm sorry, Mr. Vivian --

17 MR. VIVIAN: -- the TIA -- standards --

18 COURT REPORTER: Mr. Vivian --

19 A VOICE: You're going to have to repeat
20 all of that --

21 MR. VIVIAN: The -- the National Code G --

22 MR. GOLEMBIEWSKI: Yeah --

23 MR. VIVIAN: -- accounts for differences
24 in average winds, typically from one county to another

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1 throughout the state.

2 MR. GOLEMBIEWSKI: Okay. Mr. Libertine,
3 if we could quickly go through sort of the -- I guess the
4 profile of the different options. So we have -- what
5 you're proposing is a low profile platform --

6 MR. LIBERTINE: Correct --

7 MR. GOLEMBIEWSKI: -- and what's the
8 dimensions -- my understanding is that's like 14-foot --
9 with 14 feet on each triangle of the platform?

10 MR. LIBERTINE: Yeah, 12 to 14 feet is
11 typical.

12 MR. GOLEMBIEWSKI: Okay. And then if you
13 go to a T-arm --

14 MR. LIBERTINE: Mmm-hmm --

15 MR. GOLEMBIEWSKI: -- is the profile the
16 same?

17 MR. LIBERTINE: The width is approximately
18 the same in that 12 to 14 feet because of the horizontal
19 separation. But of course you don't have the connecting
20 points, so there's a little bit less bulk to that because
21 it's not a complete triangle. Those are actually
22 independent arms. That's why they more or less look like
23 a T at a -- if you're looking at it flush. So there is a
24 little bit less bulk overall associated with those. So

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1 if we had to kind of say most bulk, for lack of a better
2 term, you know, I think we could start with certainly the
3 full platform. Then the T-arms certainly start to reduce
4 that significantly.

5 MR. GOLEMBIEWSKI: Okay. And then you go
6 to either a flush mount or a close mount?

7 MR. LIBERTINE: Correct.

8 MR. GOLEMBIEWSKI: Okay. And so if you do
9 an exterior mount, do we still have the same pole width,
10 the pole diameter issues? Is it based because of the
11 coaxial where we're talking about -- because I know we're
12 going with either say a five-foot diameter, but that's
13 interior -- they're -- they're -- they essentially have a
14 pole with a sleeve over it, right?

15 MR. LIBERTINE: I'll speak first -- but I
16 think -- this is all site specific -- but my experience
17 has been if we're doing a flush mount or a close contact
18 -- because I think flush is a little bit misleading
19 because obviously you've got a few inches off the pole,
20 but certainly it's very -- we're talking about less than
21 a foot in terms of -- including the antenna being off the
22 pole. My experience has been that those are -- not
23 necessarily have to be as wide obviously to accommodate
24 the internal arrays because in addition to all the

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1 cabling, it's the antennas themselves that kind of create
2 -- needed to create an angle to get the correct azimuth,
3 you're talking about a much wider diameter. So from my
4 experience, I've normally seen the close contact arrays
5 be more of what I'd consider to be a typical slim
6 monopole design. But again, some of it's site specific,
7 so I don't want to speak -- you may have something there
8 to add --

9 MR. DESANTIS: I would concur with that
10 statement. As Mr. Libertine is saying, the interior
11 mounts obviously have to be bigger to accommodate the
12 equipment inside. The close contact could be mounted to
13 the exterior of it, although yes it is -- you know, it
14 would be narrower, you would have the antennas and other
15 equipment outside.

16 MR. GOLEMBIEWSKI: Okay. And then -- when
17 -- when -- there was testimony as to needing three levels
18 on a unipole, saying that 120 is your minimum height.
19 Now is that based on the 700 megahertz, the LTE? Where
20 do you get -- do you know what I'm saying? Which --
21 which -- which are you designing to because I know you
22 have multiple frequencies?

23 MR. WELLS: Yeah, that's actually based on
24 the -- on the 800 megahertz model.

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1 MR. GOLEMBIEWSKI: Okay. So an LTE could
2 potentially go below that at 110 and still get you
3 similar coverage?

4 MR. WELLS: I -- I don't think so.
5 Although -- you're headed in the right direction. I
6 think your assumption is that well it's 700, it's a lower
7 frequency and it will cover a little more --

8 MR. GOLEMBIEWSKI: Yes --

9 MR. WELLS: -- but there's also -- you're
10 packing a lot of information in short bits. And what
11 we're seeing is that LTE is -- you need -- you need a
12 little better coverage with LTE to maintain the expected
13 standard for that --

14 MR. GOLEMBIEWSKI: So --

15 MR. WELLS: -- and there's not a huge
16 difference between 700 and 800 to begin with --

17 MR. GOLEMBIEWSKI: Okay --

18 MR. WELLS: -- it's fairly -- it's not
19 like 800 and 1900 where you're almost doubling the
20 frequency. So conceptually you're headed in the right
21 direction, but you have those two constraints; (1) it's
22 very close -- it's close in propagation; and (2) if you
23 look at the modulation schemes for that, it's crazy what
24 they're trying to pack into a little bit of RF space.

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1 MR. GOLEMBIEWSKI: So to use the 800, you
2 get a comparable coverage map for the LTE is what you're
3 saying?

4 MR. WELLS: Yeah --

5 MR. GOLEMBIEWSKI: When I look at --

6 MR. WELLS: -- as a -- as a general
7 guideline --

8 MR. GOLEMBIEWSKI: Okay --

9 MR. WELLS: -- there's definitely
10 differences, but as a general guideline only. But like I
11 said, the LTE we're finding is -- requires some stricter
12 standards to maintain good thru-put.

13 MR. GOLEMBIEWSKI: Okay. And then just to
14 refresh my memory, when you -- when you were talking
15 about a monopine, you could put all your antennas at one
16 level on a monopine?

17 MR. WELLS: Yes.

18 MR. GOLEMBIEWSKI: Okay. And then refresh
19 my memory, Mr. Libertine, the appropriateness of the
20 monopine at either site, my recollection is you said it
21 wasn't the greatest site --

22 MR. LIBERTINE: I --

23 MR. GOLEMBIEWSKI: -- for either --

24 MR. LIBERTINE: Yeah, I think these --

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1 these locations are not what I'd consider to be like the
2 ideal spot. From certain vantage-points, I think a tree
3 would be very helpful. I think especially right out in
4 front of each of those sites, and if you were an
5 adjoining neighbor, certainly of the East Haven site, a
6 tree would be much more palpable. But there are going to
7 be some other locations, especially as you move away,
8 and there are a few spots where the facility will likely
9 be significantly above the tree line, it's likely that
10 it's going to stand out just a little bit more just
11 because of the bulk that would be necessary to carry
12 that.

13 MR. GOLEMBIEWSKI: Okay. And then if a
14 monopine was used in East Haven, would there need to be
15 any additional changes to the proposed foundation? Would
16 it -- would it put more stress on the --

17 MR. DESANTIS: Certainly the foundation --
18 you know, no matter what the site type is -- whatever the
19 structure type is, everything will be designed during the
20 D&M process. We'll do our subsurface testing, you know,
21 based on the site selection. But yes, the foundation may
22 be a little more bulky if it's a monopine versus a slim
23 monopole, or whatever.

24 MR. GOLEMBIEWSKI: Okay, great. Thank

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1 you, Chairman.

2 MR. WILENSKY: Mr. Chairman.

3 CHAIRMAN STEIN: Yes.

4 MR. WILENSKY: Mr. Libertine, if the
5 monopine was used in East Haven, because of the height
6 limitations would that work because you'd have to
7 increase the monopine another seven feet I would assume -
8 -

9 MR. LIBERTINE: Well in this case we had
10 proposed --

11 MR. WILENSKY: -- and now you're up to
12 about 110 feet --

13 MR. LIBERTINE: Right. Recognizing that
14 we do have the height limitation, in this case we
15 proposed to not go with the additional seven-foot taper
16 and to instead propose what we call kind of a flattop
17 style monopine, which is done. So rather than having
18 that kind of taper that you would normally see that more
19 or less conceals all the antennas and just above it, but
20 does not extend significantly above the --

21 MR. WILENSKY: In other words you are not
22 putting your antennas down --

23 MR. LIBERTINE: No, it wouldn't -- it
24 would not necessitate bringing the antennas down, but

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1 instead of going seven feet above that platform, we would
2 -- we would shroud those in the branches so to speak, but
3 --

4 MR. WILENSKY: You'd have like a bulky top
5 rather than a --

6 MR. LIBERTINE: Right. More like a
7 stunted tree that you might see that had been -- you
8 know, in the natural environment that may have been hit
9 by lightning or just had been -- you know, had some
10 damage at the top.

11 MR. ASHTON: Heavily pruned.

12 MR. LIBERTINE: That's one of the problems
13 with the monopine. Sometimes I think everybody,
14 including myself, we've all kind of thought about
15 designing these things to look like Christmas trees. And
16 the more I've driven around and looked at pine trees in
17 their natural environment, they're very sparse, they are
18 not symmetrical normally, and a lot of times you don't
19 get that nice taper, you get a lot of these kind of what
20 I'll call these stunted tops. So it's not that uncommon.
21 It would still look natural, but it wouldn't be what I
22 think we're used to calling the traditional monopine that
23 certainly has been built in Connecticut over the last
24 couple of years.

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1 MR. WILENSKY: Thank you, Mr. Libertine.
2 Thank you, Mr. Chairman.

3 CHAIRMAN STEIN: Thank you. Mr. Lynch.

4 MR. LYNCH: Mr. Wells, let's revisit the
5 internal design or flush mount antenna designs. In light
6 of the new technologies that may be coming down the line
7 and stuff becomes obsolete -- what is it, Morris law or
8 the Morris Principle -- in 18 months things are obsolete,
9 and how practical is it -- because we've already
10 replaced a couple of flush mount antennas with full
11 antenna designs, how practical are these designs as far
12 as their lifetime in light of the new technology that may
13 be coming? I know that's a loaded question, but --

14 MR. WELLS: Yeah -- yeah, I guess -- you
15 know, from an engineering standpoint you always want as
16 much flexibility as possible. And you know, of course we
17 have to balance that against the constraints of
18 visibility and everything else. But as you've said, you
19 know, recently we've had to go back and convert some of
20 the old ones to -- to get away from that flush mount and
21 interior type environment. So it's becoming more and
22 more of a challenge every day. I mean there's more
23 spectrum, more usage, and the technology is getting more
24 and more challenging every day to optimize. And you

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1 know, we've always been concerned about flush mounts.
2 And as you said, you know, you try to compromise where it
3 makes sense, but ultimately you need to provide coverage
4 where people use it. And when you're doing the flush
5 mount, you are, as we've always said, constraining the
6 design. And what we're finding now with LTE is it is --
7 it's a challenge for optimization and --

8 MR. LYNCH: It is constrained for
9 capacity? Is that what you're talking --

10 MR. WELLS: Yeah -- eventually a lot of
11 stuff comes down to capacity, but it's optimization for
12 capacity. For example, if you -- if you look at CDMA --
13 if you look at the progression from -- say even from CDMA
14 technology, which was a handoff type technology or UMTS
15 for example, you could -- if you're on a voice channel,
16 you could aggregate multiple sectors. So if you get a
17 sector from one site, Site A, and then another from Site
18 B coming into the same spot, your mobile would decode
19 both of those sectors and so you would -- so that
20 wouldn't hurt you. But now as we migrate more and more
21 to data, you can't -- there's some constraints on that.
22 And now that Sector B is -- now it interferes. So now
23 you've really got to optimize that so that Sector A
24 maintains that dominant server. And that -- that can be

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1 a real challenge. And if you're constrained by your
2 physical location of those antennas and where you can
3 point them and how much you can down tilt them, you know,
4 it's a challenge already, and then it becomes even more
5 of a challenge.

6 MR. LYNCH: Thank you. And I have a
7 general question also. Your commercials for AT&T and
8 Verizon are advertising something called -- and I may be
9 wrong or get the pronunciation wrong -- FILO or FIL -- or
10 something like that -- is that an LTE designation?

11 MR. WELLS: Boy, I --

12 A VOICE: I haven't seen that ad --

13 MR. WELLS: What is it?

14 MR. LYNCH: I think it's FILO, F-I-L -- I
15 don't know if it's O or apostrophe O, or dash O. And
16 both AT&T and Verizon are advertising this. I don't know
17 if it's something that's in -- an app that goes in the
18 clouds or something, but I was just wondering what it
19 was.

20 MR. WELLS: I'm sorry, I'm not -- you
21 know, I don't pay too much attention to the marketing
22 guys, but -- (laughter) --

23 MR. LYNCH: Thank you. No more --

24 MR. WELLS: It wasn't -- it's not FIOS

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1 you're referring to, right? It's not FIOS with an S that
2 you're referring to?

3 MR. LYNCH: It could be -- it could be.

4 MR. WELLS: Okay. Well FIOS is a -- it's
5 fiber to the home basically if you're referring to fiber
6 -- or if you're referring to -- I'm sorry, if you're
7 referring to FIOS, F-I-O-S, then that's fiber to the home
8 and that's not an RF --

9 MR. LYNCH: Okay --

10 MR. WELLS: -- it's not an RF thing.

11 MR. LYNCH: I was just wondering what the
12 hell it was.

13 MR. WELLS: Yeah.

14 MR. LYNCH: No more questions, Mr.
15 Chairman.

16 CHAIRMAN STEIN: Alright, thank you.
17 Senator Murphy.

18 MR. MURPHY: Just a few, Mr. Chairman,
19 thank you.

20 Prior to preparing this conceptual
21 drawing, which is part of the September 24th filing, was
22 Verizon consulted as to how many locations they would
23 need or did you just go forward on a two basis?

24 (pause)

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1 MR. MURPHY: If nobody speaks up, I guess
2 nobody talked to them -- (laughter) --

3 MR. ASHTON: Tough questions.

4 (pause)

5 MR. VIVIAN: I think we went off of
6 Verizon's original testimony at this hearing when they
7 were asked about how many spots they would need for a
8 unipole, and the RF engineer indicated two.

9 MR. MURPHY: Okay. And no conceptual plan
10 was done for East Haven because it just won't work, is
11 that basically it?

12 MR. WELLS: That's correct.

13 MR. MURPHY: And turning to what's the
14 conceptual design here for Branford, it really doesn't
15 work from an RF standpoint either, does it, at 130 feet
16 if you need three?

17 MR. VIVIAN: Well, I -- we would -- for
18 AT&T -- from AT&T's perspective and likely from Verizon's
19 that the height would have to go up to make it --

20 MR. MURPHY: It would have to be more than
21 130 feet?

22 MR. VIVIAN: Correct.

23 MR. MURPHY: Right. So at 130 feet of the
24 conceptual design, it really won't work for you if it's

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1 limited to 130 feet. So what you're really -- the point
2 I want to make is for us to do this and for it to work
3 for AT&T, the tower would have to go higher than 130
4 feet?

5 MR. WELLS: That's correct.

6 MR. MURPHY: Perhaps 150 and maybe higher
7 depending on Verizon's needs?

8 MR. WELLS: Correct.

9 MR. MURPHY: Alright. I have no other
10 questions, Mr. Chairman.

11 CHAIRMAN STEIN: Dr. Bell.

12 DR. BELL: Thank you, Mr. Chair. Just to
13 review this matter of the width one more time, AT&T has
14 constructed towers, flush mounted, internal mounted
15 towers in Avon and in Farmington recently that are
16 according to our records 36 feet in diameter. Why is it
17 -- and these are, as I understand it, comparable to the
18 100-foot tower, not the taller towers. Why is it that
19 you would need a greater width in this case for the short
20 tower which we're dealing with in East Haven?

21 MS. CHIOCCHIO: We'll let Mr. Wells answer
22 that question.

23 MR. WELLS: I think -- and I'll let Mr.
24 DeSantis jump in as well -- but part of -- part of the

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1 design -- the design here includes LTE and remote radio
2 heads and so you need -- you need room for those remote
3 radio heads up at the top. Where I think probably in
4 your other installation that you're talking about, that
5 was a coax fed system in which you only had the antennas
6 -- all the base equipment on the bottom and coax fed to
7 those antennas.

8 DR. BELL: The remote radio heads -- the
9 remote radio heads are fed by fiber, right?

10 MR. WELLS: That's correct.

11 DR. BELL: So they actually take less in
12 terms of larger mass of coax --

13 MR. WELLS: For coax yes. But at the top
14 because now you no longer have a passive antenna, you
15 have active electronic components up there, so now you
16 have to --

17 DR. BELL: So now there's a greater width
18 demanded for the antenna or for the remote radio head
19 equipment itself?

20 MR. WELLS: For the antenna and the remote
21 radio head --

22 DR. BELL: All together?

23 MR. WELLS: Right. Because you've got to
24 account for both where before you only had to account for

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1 one.

2 DR. BELL: Okay -- alright, that -- that
3 answers my question, thank you.

4 Staying with you, Mr. Wells, I guess --
5 and I think we had some discussion earlier, but I'm not
6 sure and I'd like to review it. In a response which was
7 to Question 12 of the interrogatories from the Siting
8 Council --

9 A VOICE: Which set --

10 DR. BELL: The second set of
11 interrogatories, Question 12, in commenting on the
12 coverage maps that were provided with that second set of
13 interrogatories, you -- you said -- or whoever was answer
14 the question said that those coverage maps had been
15 prepared with better or an upgrade, or some term like
16 that, data on the terrain. I'm just trying to understand
17 what changed or what enabled you to understand the
18 terrain better in order to answer the question in the way
19 you did?

20 MR. WELLS: Well the -- throughout the
21 duration from our first plots for this hearing to the
22 actual hearing day and the interrogatories was -- during
23 -- during that intervening time we actually upgraded our
24 terrain database. We're always trying to improve the

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1 model. So in this case we were able to get lower
2 resolution -- or higher resolution, lower size bins for
3 our terrain. So when we answered the interrogatory, we
4 had submitted a map. And I was going over it with our
5 engineers and noticed that there were some anomalies
6 between the first submittal and those interrogatory
7 responses. So at that point we found, oh, yeah, we
8 changed terrain at that point, and it improved the model
9 a little bit. Substantially it didn't change anything.
10 If you look at the plots, there's very subtle differences
11 within there, but we just -- we wanted to be as accurate
12 as possible for the record, so we submitted it with that
13 new improved terrain. But it's -- like I said, as you
14 can see, if you look at the submittals, it's not a
15 substantial difference.

16 COURT REPORTER: One moment please.

17 (pause - tape change)

18 MR. WELLS: Mr. Vivian has pointed out
19 that I should explain what the improved terrain means --
20 (laughter) -- that's why I have him sit next to me --
21 (laughter) -- although it gets me into trouble sometimes
22 -- the -- so when I say improved terrain, what we do is
23 from the -- the USGS is the source for that and they're
24 always making -- they're always trying to improve theirs,

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1 so we get those improvements. So what we do is we -- we
2 take the available terrain data and assign that to bins.
3 And whether it's -- initially we used to use 30 meter by
4 30 meter bins, but now a higher resolution. I think our
5 resolution is now 10 meter by 10 meter bins. So we take
6 that -- you know, all the terrain within that bin size
7 and average that out and assign a single value to that
8 bin. So the lower -- the smaller that bin size is the
9 more resolution you can get. As I said, in this kind of
10 environment you'll see very subtle differences in the
11 plots. If there were some very sharp changes in terrain,
12 that's where it really makes a difference because now
13 you're not averaging out larger areas, you're averaging
14 out a much smaller area.

15 DR. BELL: What -- the -- a change in
16 terrain might be caused by the development of a large
17 building or -- I mean terrain -- I'm trying to understand
18 what a terrain change would be. If you had a hurricane
19 that knocked down a lot of trees, which we did, that
20 might cause it. What -- what is --

21 MR. WELLS: No, it's actually not a change
22 -- in general it's not a change in the terrain itself.
23 It's -- it's -- it's better -- better terrain data
24 available for that particular area. So you -- I mean if

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1 you've got a mountain there today, it's probably going to
2 be there tomorrow too -- (laughter) -- but if -- like I
3 said, if you get more resolution, you can use smaller bin
4 sizes to represent that terrain.

5 MR. VIVIAN: It's sort of like say a
6 digital TV where you have ten-eighty dots per inch versus
7 seven-twenty. So the -- so the improved terrain model
8 has more accuracy and less -- you know, a smaller area
9 for averaging each -- each bin if you will.

10 DR. BELL: Okay. Obviously these
11 questions are becoming general, but I mean it did open up
12 this general area, so I'm just attempting to understand
13 so that we can understand other applications where
14 presumably this same kind of phenomenon would happen --

15 MR. LIBERTINE: Well --

16 DR. BELL: -- but I guess my -- my last
17 question about that would be -- you mentioned that -- you
18 said the USGS is always trying to improve their data and
19 you guys are always trying to improve your model -- and
20 I'm sure you are -- but what constitutes always --

21 MR. WELLS: Yeah --

22 DR. BELL: -- I mean how is -- what --
23 what is the period of always?

24 MR. WELLS: Yeah, you're right. I think

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1 that was probably too much of a generalized statement.
2 Whenever we find new sources available -- I mean I guess
3 always -- I mean we are -- I don't know how to put that
4 in perspective, and I certainly don't know the inner
5 workings of the USGS and what their plans are -- I mean I
6 guess could do some research on that, but I don't know
7 what they plan --

8 MR. LIBERTINE: I can shed a little light
9 on the D -- the DEMS -- because we've been wrestling with
10 this as well. And actually on a recent petition I had to
11 write a brief memo on this issue because the -- the
12 digital elevation models the USGS developed were done
13 several years ago and they were done at a specific
14 resolution. I think it was a 30 meter resolution. So
15 that was coarse terrain data. And for -- looking out
16 over two, three, or four miles, it's more than adequate.
17 But there are certain inaccuracies that lie within that
18 because of the lack of density, for lack of a better
19 term.

20 About four years ago the folks at U-Conn
21 took some much better data, LIDAR data that we're now
22 using, and made that available. And they've since done
23 some upgrades to that. So we're seeing kind of a
24 progression as data becomes -- as Tony had said, as data

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1 becomes available, we're trying to integrate that because
2 it just gives us a more accurate look. And actually, it
3 will give us just less room for that margin of error that
4 we were seeing. And it's subtle, but it's -- certainly
5 anytime you can do that -- it's the same thing as aerial
6 photography gets better and better, we're obviously using
7 the most recent as well as the ones that have the best
8 resolution so that we can really get down and see what
9 we're dealing with.

10 So it happens periodically. I'd love to
11 say, boy, every couple of years they go back and really
12 look at these things. But the USGS, one of the
13 limitations there was they tried to do that seamlessly
14 across the entire United States. And it's very helpful
15 if we're dealing with a site in Ridgefield let's say
16 where you have the New York border right next door and
17 some of the propagation or in my case some of the
18 visibility now extends into New York, it's wonderful.
19 The LIDAR data unfortunately stops at the border. So
20 LIDAR sees geo-political borders, where the USGS kind of
21 took flight and said we want the whole continental United
22 States. So there's -- there's actually I guess a benefit
23 to using one over the other in certain cases. But again,
24 when you have the best resolution and you can get the --

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1 in the case of the LIDAR, I believe it's two feet
2 resolution as opposed to 30 meters. That's a big
3 difference in terms of that overall level of accuracy.

4 So it's a progression, the data gets
5 better. It's just kind of like this industry; it
6 continues to kind of evolve. And as the information and
7 data becomes available, we're -- we're constantly trying
8 to incorporate it because it just gives us a better
9 picture and it gives us a little bit more accuracy as we
10 go, so -- I don't know if that helps or complicates it
11 more --

12 DR. BELL: No -- yes, it definitely does
13 help because I am familiar with LIDAR --

14 MR. LIBERTINE: Mmm-hmm --

15 DR. BELL: -- which you're bringing in at
16 this point. But the USGS is not using LIDAR --

17 MR. LIBERTINE: Not at this point, no.

18 DR. BELL: Only Connecticut? Does
19 Massachusetts have LIDAR?

20 MR. LIBERTINE: Massachusetts has -- it's
21 a little bit -- it's in a little bit -- it's in a little
22 bit different form. So the general populous, including
23 myself, if I didn't have a real great computer person who
24 knew what they were doing, I wouldn't really be able to

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1 access it as easily as -- in Connecticut U-Conn made it
2 very available through the magic site where they've got a
3 lot of great resources. Massachusetts is still doing it
4 a little bit more archaically, so it's not as generally
5 available. If you know what you're doing, you can pull
6 it down and you can actually generate it. And we've been
7 playing around with that for our Massachusetts sites, but
8 it's just in a little bit different format. So LIDAR is
9 not unique to Connecticut. It's just unique in the sense
10 that it's so readily available right now.

11 DR. BELL: Yeah.

12 MR. LIBERTINE: The only other thing I
13 would add is the good news with the USGS is that they've
14 just updated a lot of the maps that were -- most recently
15 -- like the 1982 updates, they've all been redone in the
16 last year or so. So at least the base mapping that we
17 all see, you know, the big sheets has become now updated,
18 what is it, 30 years later. So at least it's now
19 becoming a little bit more current. So from a land use
20 perspective, that's very helpful when we're analyzing
21 certain things.

22 DR. BELL: Thank you. Thank you, Mr.
23 Chair.

24 CHAIRMAN STEIN: I just have hopefully two

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1 quick questions. Just to refresh my memory, on the
2 backup power are you proposing two separate facilities,
3 one for AT&T and the other for Verizon?

4 MR. HOWSE: Yes, we are.

5 CHAIRMAN STEIN: Is there any reason why
6 it couldn't be one facility to be used by both and have a
7 standardized --

8 MR. HOWSE: We could attempt to negotiate
9 a deal with both carriers and share the implementation
10 cost of a single generator. So --

11 CHAIRMAN STEIN: Okay. I just wanted to
12 make sure that's on the record.

13 Okay, we'll now go to cross-examination.
14 We'll go down the list to see if -- Cellco, Attorney
15 Schaefer, any --

16 MR. SCHAEFER: No questions.

17 CHAIRMAN STEIN: Sarah Pierson.

18 MS. PIERSON: No questions, thank you.

19 CHAIRMAN STEIN: The Town of Branford,
20 Attorney Ainsworth?

21 MR. AINSWORTH: A couple yes.

22 CHAIRMAN STEIN: Please.

23 (pause)

24 MR. AINSWORTH: Alright. Now has AT&T

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1 considered using lower profile flagpoles or shorter less
2 bulky facilities, but using more of them as opposed to
3 using a single facility that has a larger profile and
4 larger impact locally?

5 MR. WELLS: So instead of one location --
6 instead of one tower, multiple -- multiple towers?

7 MR. AINSWORTH: Correct. In other words
8 using smaller -- more smaller towers to have less impact
9 as opposed to, you know, driving the height up with the
10 external mounts?

11 MR. WELLS: I think -- what interrogatory
12 response did we respond to that -- (pause) -- and I don't
13 know the -- we -- we did answer that question in one of
14 the interrogatories, but basically you are -- the -- it
15 wouldn't necessarily change the diameter of the pole, and
16 now you have multiple locations as well, so -- and I'll
17 let Mr. Libertine speak to the visibility aspects of
18 that, but, you know, I would suspect that your overall
19 visibility is going to increase with multiple locations
20 because you still -- you still need to be above the tree
21 line, so it's not -- it's not like you use two shorter
22 towers and they both disappear. Do you want to add to
23 that?

24 MR. LIBERTINE: Yeah, I would concur,

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1 that's usually been the case. When we've tried looking
2 at those scenarios, my experience has been that when
3 we're talking about shorter towers, we're usually talking
4 about probably in this case a minimum height of 60 feet
5 to get above the trees, and probably a little bit taller
6 than that. So for the sake of argument, if we're saying
7 we replace a single tower of 103 feet versus two or three
8 towers even at 65 or 70 feet, I think it stands to reason
9 that the overall visibility footprint is going to be a
10 large one, and probably impact more folks than the single
11 tower, although obviously there's some site specific
12 aspects, you know, that might change that variable, but I
13 think generally speaking that that's going to be the case
14 because again it's a matter of getting that facility and
15 those antennas above the tree line.

16 MR. WELLS: And just to add one thing
17 further -- I mean siting towers in locations, as we've
18 all seen, is not an -- it's not an easy process. And the
19 shorter -- the shorter the tower, the more precise of a
20 location it has to be. And so now you've got to find
21 more precise locations in two spots to replace that one
22 if you are able, you know. And this is all predicated on
23 the assumption that you can replace one taller site with
24 two shorter sites, which is not always the case. Again

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1 depending on the location, you could end up with more
2 than two sites to replace that one.

3 MR. AINSWORTH: Well there was a question
4 earlier that -- you know, that was to the effect that 130
5 feet wouldn't work at Branford, which is shorter than
6 what's proposed, but given that there was testimony at
7 the last hearing that you might need -- at either
8 location, whichever one is chosen, you might need a site
9 in the future to cover future capacity and also some of
10 the gaps that exist on either side of the proposed
11 facility, wouldn't -- would you be able to use a 130-foot
12 tower at Branford for instance and then another facility
13 later on that's much shorter to cover the infield?

14 MR. WELLS: Well just to clarify, when we
15 say 130 feet would not work, that's for the flush mount
16 or internal mount antennas, correct --

17 MR. AINSWORTH: Yeah --

18 MR. WELLS: -- that's -- that's what we
19 referred to when we answered that question --

20 MR. AINSWORTH: Right --

21 MR. WELLS: -- I just wanted to make sure
22 that's clear. And (2), I'm not sure -- without specific
23 site locations that we could actually look at, I'm not
24 sure what the answer is to that question. You know,

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1 conceptually is it possible? Yes. But I don't know, I'd
2 have to look at what locations are actually available,
3 leasable, and work for RF.

4 MR. AINSWORTH: That's always true though
5 when you're siting new facilities, that you -- you're
6 providing coverage in places that you don't currently
7 have it and you don't necessarily know where you're going
8 to get the next location?

9 MR. WELLS: It is always true. But as I
10 said earlier, it becomes -- the shorter the -- the
11 shorter the proposed site, then the more difficult the
12 siting is. The more precise it has to be --

13 MR. LYNCH: Mr. Chairman --

14 MR. WELLS: -- and now you're even more
15 constrained with the typical constraints of can we zone
16 it there, can we find a landlord, and will it work for
17 RF.

18 MR. AINSWORTH: So that's more from a
19 property acquisition standpoint as opposed to visual
20 impact?

21 MR. WELLS: Property acquisition, ability
22 to zone it there -- I mean we can't -- you know, we can't
23 put it anywhere we want it, and the -- and does it work
24 for RF. Again balancing those three constraints becomes

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1 more difficult as you lower the height.

2 CHAIRMAN STEIN: We have a follow-up --

3 MR. AINSWORTH: Well when you say to zone
4 it there -- oh, I'm sorry --

5 MR. LYNCH: Mr. Ainsworth, if I may? Mr.
6 Wells, if you're looking for multiple sites or shorter
7 towers, you're not necessarily looking for just two
8 sites, you could be looking for three or four to cover
9 that area?

10 MR. WELLS: That's -- that's correct, yes.

11 MR. LYNCH: Thank you. Thank you, Mr.
12 Ainsworth.

13 MR. AINSWORTH: Okay.

14 (pause)

15 MR. AINSWORTH: I think that may be it --
16 (pause) -- I think that's it. Thank you.

17 CHAIRMAN STEIN: Thank you. Mr. Moreland?
18 Miss Whitehead?

19 MS. WHITEHEAD: No questions, thank you.

20 CHAIRMAN STEIN: Mr. Berardi? Mr.
21 Williams?

22 MR. WILLIAMS: No questions.

23 CHAIRMAN STEIN: Mr. Criscuolo?

24 MR. CRISCUOLO: No questions.

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1 CHAIRMAN STEIN: Okay, thank you all.
2 Finally, does the Applicant have any rebuttal or comments
3 before we close the hearing?

4 MS. CHIOCCHIO: No, Chairman.

5 CHAIRMAN STEIN: Okay. Before closing
6 this hearing, the Connecticut Siting Council announces
7 that briefs and proposed findings of facts may be filed
8 with the Council by any party or intervenor no later than
9 November 1, 2012, this year. The submission of briefs or
10 proposed findings of fact are not required by the
11 Council, rather we leave it to the choice of the parties
12 and intervenors.

13 Anyone who has not become a party or
14 intervenor, but who desires to make his or her views
15 known to the Council, may file written statements with
16 the Council within 30 days of the date hereof.

17 The Council will issue draft findings of
18 fact. And thereafter, parties and intervenors may
19 identify any errors or inconsistencies -- inconsistencies
20 between the Council's draft findings of fact and the
21 record. However, no new information, no new evidence, or
22 no new argument or reply briefs without our permission
23 will be considered by the Council.

24 Again, copies of the transcript of this

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1 hearing will be filed at the East Haven and Branford Town
2 Clerks' office.

3 And I hereby declare this hearing
4 adjourned and thank you all for your participation.

5

6 (Whereupon, the hearing adjourned at 2:01
7 p.m.)

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