THE STATE OF NEW HAMPSHIRE BEFORE THE SITE EVALUATION COMMITTEE DOCKET NO. 2015-04

PRE-FILED DIRECT TESTIMONY OF JAMES CHALMERS

APPLICATION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY FOR A CERTIFICATE OF SITE AND FACILITY FOR CONSTRUCTION OF A NEW 115 kV TRANSMISSION LINE

THE SEACOAST RELIABILITY PROJECT

April 12, 2016

| | Qualifications and Purpose of Testimony |
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| Q. | Please state your name, title, and business address. |
| A. | My name is James Chalmers. I am the Principal of Chalmers & |
| Associates, L | LC whose business address is 616 Park Lane, Billings, MT 59102. |
| Q. | Briefly summarize your educational background and work |
| experience. | |
| A. | I received the BS degree in economics from the University of Wyoming in |
| 1963 and the | Ph.D. in economics from the University of Michigan in 1969. In addition, I |
| am a Certified General Real Estate Appraiser licensed in several states. | |
| From 1969 to 1978, I was an economics professor at Amherst College, Thammasa | |
| University in Bangkok, Thailand and Arizona State University. | |
| Beginning in 1974 on a part-time basis, and from 1978 to present on a full-time | |
| basis, I was a real estate consultant with Mountain West Research, Inc., Coopers & | |
| Lybrand, LLC, PricewaterhouseCoopers, LLC and Chalmers & Associates, LLC. | |
| I have specialized in assessing the effects of externalities (contamination, | |
| pipelines, highways, transmission lines, and others) on the value of real estate. I have also | |
| managed several large multi-discipline assessments of energy related projects including | |
| the damage assessment for the U.S. Nuclear Regulatory Commission ("NRC") of the | |
| accident at Three Mile Island and the assessment of the proposed High Level Nuclear | |
| Waste Repository at Yucca Mountain for the State of Nevada. | |
| Please | e see my resume as Attachment A. |
| Q. | Have you previously testified before the Site Evaluation Committee |
| ("SEC")? | |
| A. | Yes. I have submitted testimony for the Merrimack Valley Reliability |
| Project and for | or the Northern Pass Transmission Project. |
| Q. | What is the purpose of your testimony? |
| A. | My purpose is to provide my professional opinion with respect to the |
| possible effec | cts of the Project on both property values and marketing times in local and |
| regional real estate markets. | |
| | A. Associates, L. Q. experience. A. 1963 and the am a Certifie From University in Begin basis, I was a Lybrand, LLe I have pipelines, hig managed sev the damage a accident at T Waste Repos Please Q. ("SEC")? A. Project and for Q. A. possible effect |

| 1 | Q. | What is your role in the Seacoast Reliability Project (the "Project")? |
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| 2 | A. | I was initially retained by Northern Pass Transmission, LLC to assess the |
| 3 | state of know | ledge with respect to property value effects of high voltage transmission |
| 4 | lines ("HVTI | 2") and to supplement existing research with New Hampshire-specific |
| 5 | initiatives as | appropriate. I was subsequently retained by Public Service Company of |
| 6 | New Hampsh | rire d/b/a Eversource Energy ("PSNH") and New England Power Company |
| 7 | d/b/a Nationa | d Grid ("NEP") in connection with the Seacoast Reliability Project and the |
| 8 | Merrimack V | alley Reliability Project. I have summarized the published research and the |
| 9 | new, New Ha | ampshire-specific research initiatives in a report titled High Voltage |
| 10 | Transmission | Lines and New Hampshire Real Estate Markets: A Research Report (the |
| 11 | "Research Re | eport") and then applied the findings summarized in the Research Report to |
| 12 | the Seacoast | Reliability Project. My report is found at Appendix 45. |
| 13 | | The Research Report |
| 14 | Q. | Please describe the objectives of the Research Report. |
| 15 | A. | The objectives of the Research Report are threefold: (1) to summarize |
| 16 | existing know | vledge on the effects of HVTL on real estate markets, (2) to supplement that |
| 17 | knowledge w | ith New Hampshire-specific research initiatives, and (3) to draw |
| 18 | conclusions v | with respect to the New Hampshire-specific initiatives and evaluate the |
| 19 | consistency of | of the New Hampshire findings with the broader national literature. |
| 20 | Q. | Please describe the elements of the Research Report? |
| 21 | A. | I first analyzed the core of the professional literature, including a total of |
| 22 | 12 residential | , two commercial/industrial, five vacant land and six attitudinal studies. I |
| 23 | then reported | on three New Hampshire-specific research initiatives. They include the |
| 24 | Case Studies | —an analysis of 58 individual residential sales of properties crossed by, or |
| 25 | bordered by, | a HVTL ¹ ; the Subdivision Studies—analyzing the timing and pricing of lot |

¹ According to the New Hampshire Public Utilities Commission, power lines at or above 69 kV are considered transmission lines and lines less than 69 kV are considered to be distribution lines. This Report is focused on the potential effect of transmission lines on real estate markets but four of the 58 Case Studies and two of the 13 Subdivision studies involve properties that abut, or are crossed by, a ROW containing 34.5 kV lines. When speaking generally about the research, we will continue to use the acronym HVTL but when discussing the particular cases with the 34.5 kV lines, they will be referred to as distribution lines.

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paid were not affected by the lines.

| | | 1 ugc 3 of 13 | |
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| 1 | sales in 13 su | bdivisions where some lots in a subdivision are crossed by, or are bordered | |
| 2 | by, a HVTL a | and others are not; and the Real Estate Market Activity Research—looking | |
| 3 | at sale price t | o list price ratios and days on market for residential sales in different | |
| 4 | locational zon | nes relative to a HVTL corridor. | |
| 5 | | <u>Literature Review</u> | |
| 6 | Q. | Please summarize the literature review that you conducted. | |
| 7 | A. | The published literature is extensive. It is based on comparing the sales of | |
| 8 | properties po | tentially affected by a HVTL to the sale of properties unaffected by HVTL. | |
| 9 | These studies | are carried out using different methods (statistical studies, subdivision | |
| 10 | studies, case | studies). The findings of these studies can be summarized as follows. For | |
| 11 | residential pr | operties, about half of the studies found some measure of negative proximity | |
| 12 | effects, and half found none. Where effects were found, they tended to be small, usually | | |
| 13 | in the 1-6% range. Additionally, where they were found, they tended to decrease rapidly | | |
| 14 | with distance | from the HVTL. Effects seldom extended beyond 500 feet from the HVTL. | |
| 15 | Two of the st | udies found that where there were effects, they dissipated over time as well. | |
| 16 | Once proxim | ity was accounted for, visibility generally had no additional, independent | |
| 17 | effect in the s | statistical studies. Finally, encumbrance frequently had no effect on market | |
| 18 | value. Where | there was an effect, it was small relative to the size of the encumbrance. | |
| 19 | For co | ommercial /industrial properties, there were no effects unless development | |
| 20 | of the site wa | s constrained in a way that reduced the income producing potential of the | |
| 21 | property. | | |
| 22 | For va | acant land, there were generally no effects. Exceptions include properties | |
| 23 | where develo | pment of the land was constrained by the ROW or where the HVTL were | |
| 24 | the principal | differentiating feature of otherwise very similar parcels. | |
| 25 | There | is also published literature on attitudinal studies based on survey research | |
| 26 | methodology | . Homeowners report concerns with HVTL on health effects, aesthetics and | |

property value issues. Of those buyers of homes affected by HVTL, two of the studies

found that over 70% of the respondents reported that their purchase decision and the price

| 1 | Q. | Does the existing knowledge base with respect to the effects of HVTL |
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| 2 | on real estat | te markets have relevance to New Hampshire? |
| 3 | A. | Yes. The results are sufficiently consistent across geographies and |
| 4 | development | patterns that one would expect applicability. In addition, two of the studies |
| 5 | have particul | ar relevance because the study area investigated is close to New Hampshire. |
| 6 | Dr. F | rank Voorvaart and I carried out statistical studies of over 1,600 property |
| 7 | sales in four | neighborhoods in Connecticut and Massachusetts and found no market value |
| 8 | effects assoc | iated with either proximity to, or visibility of, HVTL. The areas studied have |
| 9 | similarities t | o many parts of southern New Hampshire. |
| 10 | Simi | arly, Dr.William Kinnard analyzed both home sales and raw land sales in |
| 11 | Penobscot C | ounty, Maine. This was a statistical study that concluded no market value |
| 12 | effects of HV | /TL proximity. |
| 13 | Q. | What additional research did you undertake to address possible |
| 14 | HVTL effec | ts on New Hampshire real estate markets? |
| 15 | A. | As identified above, there were three initiatives—Case Studies, |
| 16 | Subdivision | Studies and Market Activity Analysis. |
| 17 | | The Case Studies |
| 18 | Q. | What was the methodology used in the Case Studies research? |
| 19 | A. | The Case Studies research is based on an analysis of 58 sales of properties |
| 20 | either crosse | d by, or abutting, a HVTL ROW. HVTL corridors were selected that |
| 21 | represented much of the State of New Hampshire. These included two major north/south | |
| 22 | HVTL corridors (referred to below as Corridor #1 and Corridor #2)and several short | |
| 23 | corridors in and around Portsmouth locations (referred to as Study Area #3). All recent | |
| 24 | sales in each | corridor were identified from either assessor tax cards or multiple listing |
| 25 | services. The | e universe of sales was then filtered to eliminate sales that did not meet the |
| 26 | definition of | a "fair market sale", defined as an arm's length transaction between |
| 27 | knowledgeal | ble and typically motivated parties. The sales most frequently eliminated |
| 28 | included for | eclosures, "short" sales, liquidation sales and sales between related parties. |
| 29 | Each | of the remaining sales was then the subject of a case study that had four |
| 30 | basic compo | nents the facts of the sale, the physical relationship of the property to the |
| 31 | HVTL, inter | views with transaction participants, and appraisal evidence based on an |

| 1 | estimate of value at the time of sale ("Retrospective Appraisal") absent the influence of |
|---|---|
| 2 | HVTL, i.e. using comparable sales not influenced by HVTL. |
| 3 | Based on these four categories of evidence, conclusions were drawn with respect |

to the effect, if any, of the HVTL on the sale price and the marketing period in the

transaction.

Q. What were the findings of the Case Studies research?

A. The findings of the Case Studies for the three study areas were as follows. Sale price effects in the 24 Corridor #1 Case Studies were infrequent, small and only occurred where there was very close proximity, i.e. less than 100 feet from the house to the edge of the ROW, combined with clear HVTL visibility. Proximity of that degree in the absence of clear visibility appeared not to be an issue nor was substantial visual intrusion in the absence of very close proximity. Marketing time effects were even less frequent. In only two cases did marketing time appear to be affected by the HVTL. There were several comments with reference to reduction in buyer interest due to the HVTL, but rarely did there appear to be any material effect on the marketing period. Further, there were references to several buyers who saw the corridor as an asset to the property.

Sale price effects in the 28 Corridor #2 Case Studies were also infrequent and only occurred where there was a combination of very close proximity and clear HVTL visibility. Like Corridor #1, proximity without clear visibility and clear visibility without proximity did not result in sale price effects. Marketing time effects were found in seven cases and suggested as possible in three others. In eighteen cases it was found that the HVTL did not affect marketing time.

Of the six case studies in Study Area #3, there were sale price effects in two cases and sale price effects were suggested as possible in one other. Effects on marketing time were found in one case and suggested as possible in one other. The results are similar to those for Corridors #1 and #2. The two properties for which sale price effects were found were located adjacent to the ROW, in one case, and 11 feet distant in the other, with both having clear visibility of the HVTL.

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Q. Overall, what conclusions can be drawn from the New Hampshire Case Studies?

3 A. The Case Studies represent a broad spectrum of properties crossed by, or 4 adjacent to, a HVTL in New Hampshire. There is variety in terms of property location, 5 size and value and in the way in which the property is physically affected by the HVTL. 6 While the results of any single case study are necessarily anecdotal, useful 7 generalizations can be drawn when considering the results from all 58 case studies. These 8 include the following. Sale price effects are infrequent—10 cases out of 58 found a sale 9 price effect with another 11 cases suggesting a possible sale price effect. Thirty-seven 10 cases or 64% found no sale price effect. Where sale price effects were found, they appear 11 to have been small. Sale price effects decrease very rapidly with distance. Only one of the 12 10 cases had a house located more than 100 feet from the edge of the ROW (it was 106 13 feet from the edge of the ROW) and seven were within 30 feet. With only one exception, 14 close proximity had to be combined with clear visibility of the HVTL for there to be a 15 sale price effect. Of those properties that combined close proximity and clear visibility, 16 eight of the 14 had a sale price effect and six did not. The cases with sale price effects not 17 only had homes close to the ROW but they were often forced to be close to the ROW 18 because the developable portion of the lot was constrained by the location of the ROW on 19 the property. Marketing time effects were also infrequent. In 41 of the 58 cases, there was 20 no marketing time effect of the HVTL.

The Subdivision Studies

Q. How do the Subdivision Studies differ from the Case Studies?

A. The Case Studies focus on individual sales of improved residential properties, i.e. properties on which homes have been built. The Subdivision Studies analyze the sale of unimproved lots before homes have been built. They analyze the original sale of the lots by the subdivision developer. Subdivisions are selected where some of the lots are crossed by, or abut, a HVTL while others are not.

Q. What was the methodology used in the Subdivision Study research?

A. An attempt was made to identify a subdivision in each of the towns crossed by Corridor #2 that had reasonably homogeneous lots, some crossed or abutting a HVTL, some not. No more than one subdivision was selected in any one town and a total

- of ten were identified. Corridor #1 did not lend itself to Subdivision Studies because of
- 2 the more rural character of the area it crosses. In addition, an attempt was made to
- 3 identify candidate subdivisions in the towns in Study Area #3. A total of three was
- 4 identified.

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A representative group of crossed or abutting ("Subject") lots and lots not crossed

6 or abutting ("Control") were identified for each subdivision. Chain of title was

7 established for each lot back to the original sale of the unimproved lot by the developer.

8 The date and sale price for the original lot sale was recorded. This provided the basis for

analyzing differences, if any, in the pricing and marketing time of the Subject lots relative

to the Control lots.

Q. What were the findings of the Subdivision Study research?

A. For the 10 subdivisions crossed by Corridor #2, 133 lot sales were identified. Fifty-one of these sales involved encumbered or abutting lots. Seven of the 51 were abutting and 44 were encumbered. Five of the 10 subdivisions had some sales after the year 2000 while the others were fairly evenly divided between the 1970's, 80's and 90's. The extent of the encumbrance varied but there were several instances of lots encumbered in the 30% to 70% range.

Of the 51 lots either encumbered or abutting the ROW of Corridor #2, only four showed any evidence of price effects. In three of the four cases where there was an effect, development of the lots was severely compromised by the ROW. Further, in every case, the percentage discount was less than the percentage of the lot encumbered. In seven of the subdivisions, the encumbered or abutting lots sold at the same rate, or in some cases faster, than the Control lots.

In Study Area #3, there were 34 lot sales in the three subdivisions identified for study; 22 of these lots were encumbered by a ROW. The time periods involved included the early 1990's, the late 1990's and the early 2000's. In two of the subdivisions, there were price effects for the encumbered lots although the price effects were small compared to the reduction in the development area of the affected properties. Overall, the

² Two of the subdivisions in Study Area #3 were encumbered by a 100 foot wide ROW containing a 34.5 kV distribution line. The other subdivision in Study Area #3 and all 10 of the subdivisions in Corridor #2 were crossed or bordered by HVTL.

- lots in Study Area #3 were smaller (one to two acres), were of greater value and did not
- 2 have acreage in addition to the home site (what we called excess acreage) which was
- 3 characteristic of many of the subdivisions studied in Corridor #2.

There were timing effects observed at two of the three subdivisions studied. In

- 5 those two subdivisions, the heavily encumbered lots sold less quickly than the
- 6 unencumbered lots.

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Q. Overall, what conclusions can be drawn from the New Hampshire

Subdivision Studies?

- A. Lot sales were studied at 13 subdivisions where some lots were crossed or
- bordered by a HVTL ROW and others were not. The response of the market to the two
- categories of lots was analyzed both in terms of sale price and marketing time.
- 12 Investigation of the lot sale history along Study Corridor #2 indicates a general lack of
- marketability issues associated with lots encumbered by, or abutting, a HVTL ROW.
- 14 Timing issues were apparent in three of the ten subdivisions and two of those were minor.
- 15 Price effects were even less frequent.
- The absence of price and timing effects in the Corridor #2 subdivisions appears to
- be due to the fact that the used and value generating portion of the lot is generally a small
- enclave at the front of the lot where the residence is developed. The rear of the lot plays
- 19 little role in the value calculation and the presence, therefore, of a HVTL ROW in the
- 20 rear portion of the lot apparently has little impact on the marketability of the lot. In each
- 21 of the four cases where there was a price effect, the lot was bisected and the development
- area of the remaining portion of the lot between the ROW and the lot frontage was
- 23 constrained.
- 24 The findings for the three subdivisions in Study Area #3 appear to reflect the
- 25 reality in the Portsmouth area of smaller lots, higher land prices and a general lack of
- lower valued, "excess" land. In the two subdivisions where price effects were observed,
- 27 the encumbered lots sold for 10% to 30% less than the unencumbered lots despite the fact
- 28 that their development area was 60% to 70% smaller. The ratio of land value to property
- value is variable, but if land value averaged one-third of the overall property value, this
- 30 would translate into property value effects in the 3% to 10% range. Consistent with the
- 31 Corridor #2 findings, it appears that there have to be serious constraints on the

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| 1 | development | options for a site before HVTL ROW encumbrance becomes a price issue. |
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| 2 | Or, put anoth | er way, the encumbrance has to impinge on the portions of the lot important |
| 3 | to the siting of | of the home for there to be an impact on value. |
| 4 | With | respect to marketing time, there was no effect identified in eight of the 13 |
| 5 | subdivisions | studied. In the five subdivisions where there was an effect, the effects in two |
| 6 | were small ar | nd the other three subdivisions had lots that were heavily encumbered by the |
| 7 | HVTL ROW | or by a combination of the HVTL ROW and wetlands. |
| 8 | Q. | If the value of a lot is adversely affected by HVTL, does the land |
| 9 | owner at the | time the easement was purchased, or do subsequent buyers of the lot, |
| 10 | suffer econo | mic damage? |
| 11 | A. | No. The existence of market value effects does not imply economic |
| 12 | damages to the | ne property owner. The owner at the time of easement purchase would have |
| 13 | been compen | sated for market value effects. Further, if there were market value effects, |
| 14 | subsequent o | wners would have purchased the property at a discount, so they would have |
| 15 | suffered no e | conomic damage. |
| 16 | | The Market Activity Research |
| 17 | Q. | What is the Market Activity Research? |
| 18 | A. | The Market Activity Research is a third New Hampshire-specific initiative |
| 19 | that examine | s Multiple Listing Service data to see if there is evidence of market |
| 20 | resistance to | "for sale" properties based on their location relative to a HVTL corridor. |
| 21 | Q. | What was the methodology used in the Market Activity Research? |
| 22 | A. | Multiple Listing Service ("MLS") data was collected for all residential |
| 23 | property sale | s within one mile of Corridor #2 ROW beginning on January 1, 2013 and |
| 24 | continuing th | rough 2014. Data were initially collected for all sales occurring in towns for |
| 25 | which some | portion of the town falls within the one mile criterion of the research. The |

Two measures of market activity shed light on pricing and timing issues. The MLS data describe both the listing price of the property and the sale price. The ratio of the sale price to the listing price ("SP/LP") is taken as an indication of the strength of the

location of the property sold was determined and straight line distance to the ROW was

measured from satellite imagery. The sales were categorized by distance into three

groups—encumbered or abutting, one foot to 500 feet and 500 feet to one mile.

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| 1 | market with | significant shortfalls of sale prices relative to listing prices indicative of |
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| 2 | buyer resistance. Second, the MLS data describe the days the property was on the market | |
| 3 | ("DOM") under the current listing and again, relatively high DOM would be an | |
| 4 | indication of | buyer resistance. Quarterly averages were calculated for both measures for |
| 5 | sales occurrin | ng in each of the three locational zones. |
| 6 | Q. | What were the findings of the Market Activity Research? |
| 7 | A. | The sales of the encumbered or abutting properties tend to have the same |
| 8 | or higher SP/ | LP ratio than either of the other two location groups. The proximate |
| 9 | properties (one to 500 feet) have a more mixed relationship to the more distant properties | |
| 10 | lower in some quarters, similar in several and higher in others. The number of | |
| 11 | observations in each quarter is small so not too much should be read into these results, | |
| 12 | but there is no indication of a systematic market disadvantage of the encumbered | |
| 13 | properties or the proximate properties relative to the more distant group. | |
| 14 | In six | of the eight quarters, average DOM was the same or lower for the |
| 15 | abutting/encu | imbered properties compared to the other two groups. The proximate |
| 16 | properties ha | ve lower DOM than the more distant properties about half the time and |
| 17 | higher DOM | about half the time. Again, caution must be used in drawing conclusions |
| 18 | based on relatively small numbers of observations, but there appears to be no systematic | |
| 19 | tendency for the DOM of the abutting, encumbered or proximate properties to be greater | |
| 20 | than for properties at a greater distance from the HVTL. | |
| 21 | | Conclusions |
| 22 | Q. | Having completed the Research Report, do you have an opinion on |
| 23 | the possible | effect of HVTL on real estate markets in New Hampshire? |
| 24 | A. | Yes. Everything I have learned from the research we have carried out over |
| 25 | the past 18 m | nonths as documented in the Research Report is consistent with the basic |

conclusions of the professional literature, namely: there is no evidence that HVTL result

in consistent measurable effects on property values, and, where there are effects, the

effects are small and decrease rapidly with distance.

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Project?

A.

Yes.

| | | 1 ugo 11 of 13 |
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| 1 | Q. | To what do you attribute the general absence of property value |
| 2 | effects? | |
| 3 | A. | The behavior of real estate market participants is a function of a large |
| 4 | number of co | onsiderations that influence different people in different ways. Therefore, the |
| 5 | only reliable | method of assessing effects is to observe the result of the interactions of all |
| 6 | the participa | nts as they are revealed in actual transactions. Nevertheless, based on the |
| 7 | perspective g | gained from the Case Studies and Subdivision Studies research, we are able |
| 8 | to identify co | onsiderations that may be responsible for the absence of market value effects. |
| 9 | HVTL corridors are often screened by vegetation or topography. Despite | |
| 10 | significant encumbrance, HVTL corridors often only affect the rear of lots that contribute | |
| 11 | little utility o | or value to the property. The character and condition of the improvements to |
| 12 | the property | (house, yard, etc.) tend to dominate the attributes of the lot in determining |
| 13 | the market v | alue of the property. With many of the larger rural acreages, other lot |
| 14 | characteristic | es (access, views, vegetation, water, etc.) dominate the HVTL effects. HVTL |
| 15 | effects are m | ost likely in the situation where there are similar properties except for the |
| 16 | HVTL. This | condition seldom holds in New Hampshire due to variability of terrain and |
| 17 | the generally | heterogeneous housing stock. Finally, the HVTL corridors have positive |
| 18 | attributes, su | ch as preserving open space. |
| 19 | Мус | onclusion is that even though the presence of a HVTL corridor is generally |
| 20 | perceived to | be a negative attribute of a property, the weight attached to this particular |
| 21 | attribute com | pared to all the other considerations that go into market decisions is |
| 22 | apparently to | so small to have any consistent measurable effect on the market value of real |
| 23 | estate. | |
| 24 | Q. | Are you familiar with the Project? |
| 25 | A. | Yes, I am. |
| 26 | Q. | Does your opinion on HVTL effects on the market value of New |
| 27 | Hampshire | real estate and the evidence on which it is based also apply to the |

Q. Please explain.

A. Nothing in the Research Report indicates any reason to expect property value effects of the Project to be more common than reported in the published literature or in our New Hampshire research. On the contrary, the research indicates that when effects occur, proximity of the house to the ROW combined with clear visibility of the HVTL are the critical variables. For the Project, the new HVTL is in an existing ROW so proximity of homes with respect to the existing ROW will not change.

Based on the research, those properties that could potentially be affected are homes very close to the ROW that do not have clear visibility of the existing distribution line but will have clear visibility of the Seacoast HVTL. The number of such properties is very small. Based on a proximity criterion of 100 feet, there are 19 properties potentially affected. But several of these already have clear visibility of the line in the ROW and others do not but will continue to be screened from the new lines. Of the remaining small number of properties, our research suggests some will experience small market value effects and some will not.

- Q. Please explain the apparent inconsistency between your opinions and the intuitive feeling that some observers have that HVTL must have an effect on real estate values.
- A. Many have an intuitive feeling that HVTL must have an effect on real estate values. If you focus purely on HVTL, most people would expect the direction of the effect on market value to be negative. However, it does not follow that there is a discernible effect on market value. The effect on market value, if any, depends on the weight given the HVTL effect relative to all the other positive and negative variables that shape a property purchase decision. All other things equal, the property without the HVTL would generally be preferred, but all other things are never equal. We have intuition with respect to the direction of the effect but not the weight it is given by buyers and sellers of homes. Ultimately that has to be inferred from market data.
- Q. How do you account for public concern with respect to property value effects?
- A. I think it helps to keep in mind that people come to this issue from several different perspectives. There is the "Market Value" perspective which investigates

| 1 | whether the p | price arrived at in a fair market sale is affected by a HVTL. This is an | |
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| 2 | objective concept based on market data. This is the perspective addressed in the Research | | |
| 3 | Report and is the basis for the opinions I have offered here. | | |
| 4 | A sec | cond perspective is the "Owner" perspective. This is the subjective | |
| 5 | perspective of | of the owner of an affected property who has an opinion of the personal | |
| 6 | implications | of the HVTL. This might include a scenario where the removal of a tree | |
| 7 | could have g | reat personal significance or where a portion of a HVTL structure becoming | |
| 8 | visible cause | s tremendous harm in the subjective opinion of an individual property | |
| 9 | owner. In both of these scenarios, however, it is entirely possible that a prospective | | |
| 10 | buyer, or, more generally, the market, would be oblivious to the change. | | |
| 11 | A third perspective is that of a non-owner who enjoys an affected resource | | |
| 12 | (hiking or driving for example) and feels that their use/enjoyment of that resource is | | |
| 13 | impaired by the HVTL. This perspective can be referred to as the "Public" perspective. | | |
| 14 | Both the Owner and the Public perspectives are genuine and must be respected, | | |
| 15 | but those coming from these perspectives often confuse the issue by claiming market | | |
| 16 | value effects. In fact, they may claim market value effects that are of magnitudes similar | | |
| 17 | to the effects they suffer from a subjective or public perspective, e.g. "the value of my | | |
| 18 | property will be destroyed." This may be true from their personal, subjective perspective | | |
| 19 | but the market value issue is an empirical question that must be answered with market | | |
| 20 | data. | | |
| 21 | Q. | Please provide your ultimate opinion on the issue of the Project's | |
| 22 | potential eff | ect on real estate markets. | |
| 23 | A. | In my opinion, there is no basis in the published literature or in the New | |
| 24 | Hampshire-s | pecific research initiatives as described in the Research Report to expect that | |
| 25 | the Project would have a discernible effect on property values or marketing times in local | | |
| 26 | or regional real estate markets. | | |
| 27 | Q. | Do you have any additional comments you would like to add? | |
| 28 | A. | No. | |
| 29 | Q. | Does that conclude your testimony? | |
| 30 | A. | Yes. | |