STATE OF NEW HAMPSHIRE SITE EVALUATION COMMITTEE

Docket No. 2015-06

JOINT APPLICATION OF NORTHERN PASS TRANSMISSION LLC AND PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY FOR A CERTIFICATE OF SITE AND FACILITY

SUPPLEMENTAL PREFILED DIRECT TESTIMONY OF MICHAEL BUSCHER, JAMES PALMER AND JEREMY OWENS

ON BEHALF OF COUNSEL FOR THE PUBLIC

April 17, 2017

1	Q.	who is responsible for drafting this Supplemental Pre-filed testimony?
2	A.	Michael J. Buscher, James F. Palmer, and Jeremy B. Owens.
3	Q.	Is this the same group from T. J. Boyle Associates (Boyle) that prepared the Pre-
4		filed Direct Testimony submitted on December 30, 2016?
5	A.	Yes.
6	Q.	Does Boyle wish to make any changes to its Pre-filed Direct Testimony submitted on
7		December 30, 2016 or associated exhibits?
8	A.	Yes. Please see Exhibit CFP-Boyle-6 for Appendix H Corrections to the Review of the
9		Northern Pass Transmission Line Visual Impact Assessment. This table includes editorial
10		corrections, as well as clarifications relating to comments made during the Aesthetics
11		Technical Sessions. These changes did not alter the conclusions reached in our previously
12		pre-filed direct testimony or in Exhibit CFP-Boyle-4 (Review of the Northern Pass
13		Transmission Line Visual Impact Assessment).
14	Q.	Did Boyle need to revise a simulation? If so, please explain.
15	A.	Yes. Please see Exhibit CFP-Boyle-7 for the revised Cross Country Road Simulation

- Yes. Please see Exhibit CFP-Boyle-7 for the revised Cross Country Road Simulation

 (Viewpoint PE-1 at page PE-1d), which replaces the previously filed simulation on page

 PE-1d of Exhibit CFP-Boyle-4. The proposed structure on the right side of the simulated

 image was incorrectly depicted too short, and the revised simulation now shows a taller
- Q. Please refer to your Pre-filed Direct Testimony, page 7, lines 17-18 where the testimony states: "Using the SEC's more expansive definition, in Chapter 4 and Appendix D we identify over 18,000 potential scenic resources using readily available databases, and identified categories of scenic resources that could be

structure in this location based on the NPT proposed structure height.

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1		inventoried with additional effort (e.g., historic sites, lands given a public use
2		recreation tax abatement)." Have you since refined the number of potential scenic
3		resources? If so, please explain.
4	A.	Yes. We examined the more than 18,000 initial potential scenic resources in an attempt to
5		further refine the identification of potential scenic resources. The overall methods to
6		further refine this data removed or consolidated 11,516 resources, leaving a total of 7,417
7		potential scenic resources. The most significant form in reduction was to combine
8		separately mapped resources that have the same name. However, this simplification does
9		not recognize that a scenic resource may have distinct parts that need to be evaluated
10		individually.
11		
12		It is important to note that the general purpose of this analysis and the original analysis
13		was to demonstrate that the NPT VIA did not adequately identify scenic resources. The
14		specific number is not critical. Our initial analysis and now this refined analysis clearly
15		indicates that several thousand scenic resource should have been identified by the NPT
16		VIA. The analysis that Boyle provided in the Review of the NPT VIA is an example of a
17		logical first step to satisfy Site 301.05(b)(6), which NPT should have provided. Several
18		additional steps would need to then be completed to meet the SEC rules. A full
19		explanation and the results of this refined analysis are presented in Exhibit CFP-Boyle-5,
20		Appendix G: Analysis to Reduce Duplication of Scenic Resources.
21	Q.	Please refer to the screened viewshed provided in Appendix D to Exhibit CFP-
22		Boyle-4 that includes existing structures between the Bethlehem and Bridgewater

1		transition stations. Do you wish to clarify your approach here? If so, please
2		explain.
3	A.	The screened viewshed was developed as part of the analysis for the DOE EIS and VIA.
4		In the DOE EIS, the visual magnitude of the new NPT structures, the new structures that
5		will replace removed PSNH structures, and existing PSNH structures that will remain is
6		compared to the visual magnitude of the existing PSNH structures. In the terminology of
7		the DOE EIS, this is a comparison of Alternative 7 – Proposed Action to Alternative 1 –
8		No Action. The screened viewshed provided in Appendix D to Exhibit CFP-Boyle-4 uses
9		the results from an intermediate step of the visual magnitude analysis.
10		
11		That analysis used higher quality NEXTMap terrain and land cover heights for the area
12		within 1.5 miles of the proposed ROW. These data were licensed only for use in
13		preparing the DOE EIS. As a result, it is not permitted to use them to evaluate the SEC
14		permit application.
15		
16		Exhibit CFP-Boyle-6, Appendix H Corrections to the NPT VIA Review includes
17		corrections where the screened viewshed is referenced that make it clear that it is for
18		"proposed and existing-to-remain structures."
19	Q.	Please refer to Site 301.05(a)(10) and Site 301.14(a)(7) regarding aesthetic
20		mitigation. Please explain your understanding of how the SEC should consider cost
21		in relation to of mitigation.
22	A.	Per Site 301.05(a)(10), the Applicant is required to provide "(a) description of the
23		measures planned to avoid, minimize, or mitigate potential adverse [emphasis added]

	effects of the proposed facility and the alternative measures considered but rejected by
	the applicant." Site $301.14(a)(7)$ requires the <u>SEC</u> to consider "(t)he effectiveness of the
	measures proposed by the applicant to avoid, minimize, or mitigate unreasonable adverse
	effects on aesthetics, and the extent to which such measures represent best practical
	measures." The term 'cost' is not mentioned as a consideration when evaluating
	mitigation as outlined in either Site 301.05(a) or Site 301.14(a)(7), however the SEC is
	required to evaluate whether measures represent "best <u>practical</u> measures." Within
	Review of the NPT VIA, T. J. Boyle has suggested several strategies to avoid, minimize,
	and mitigate the Project including, undergrounding, alternative corridor alignment, co-
	locating infrastructure, matching structures and alternate structure design, reconfiguration
	of existing corridors, use of alternate materials, use of non-specular conduct, and
	proposed landscape plantings to provide screening of the Project. These are strategies
	that are commonly implemented into electrical transmission projects within New England
	and have been found to be 'practical'. Each area where adverse impacts are likely to
	occur should be assessed for possible mitigation and cost should be considered as a
	practical measure against the benefit of the mitigation strategy.
Q.	Can you clarify the title and discussion in section 3.7.1.5 of the Boyle report (page
	26)?
A.	Yes. The title to section 3.7.1.5 is not as clear as it should be. It should read
	"Photosimulations Must Illustrate Visual Impacts." This correction is included in Exhibit
	CFP-Boyle-6, Appendix H: Corrections to Review of the Northern Pass Transmission
	Line Visual Impact Assessment.

The first sentence in this section is misstated and should read:

1		Site 301.05(b)(7) requires that the photosimulations "illustrate the potential
2		change in the landscape that would result from construction of the proposed
3		facility and associated infrastructure."
4		Site 301.05(b)(7) identifies three types of photosimulations that are to be used "to
5		illustrate the potential change in the landscape that would result from construction of the
6		proposed facility and associated infrastructure, including land clearing and grading and
7		road construction, and from any visible plume that would emanate from the proposed
8		facility;" (emphasis added)
9		1. Representative key observation points: Site 102.25 states "Key observation
10		point' means a viewpoint that receives regular public use and from which the
11		proposed facility would be prominently visible." (emphasis added)
12		2. Scenic resources for which the potential visual impacts are characterized as
13		"high"—which requires the project to be visible.
14		3. Private property observation points within the area of potential visual impact: Site
15		102.10 states "'Area of potential visual impact' means a geographic area from
16		which a proposed facility would be visible, and would result in potential visual
17		impacts, subject to the areal limitations specified in Site 301.05(b)(4)." (emphasis
18		added)
19		Visibility of the project is required for all three types of photosimulations.
20	Q.	Does this conclude your testimony?
21	A.	Yes.

Exhibits

- A. Appendix G: Analysis to Reduce Duplication of Scenic Resources
- B. Appendix H: Corrections to Review of the Northern Pass Transmission Line Visual

 Impact Assessment
- C. TJ Boyle NPT DOE FEIS VIA Simulation PE-1 CORRECTED.pdf