November 15, 2016

#### By E-Mail & U.S. Mail

Pamela G. Monroe, Administrator New Hampshire Site Evaluation Committee (SEC) 21 South Fruit Street, Suite 10 Concord, NH 03301-2429 pamela.monroe@sec.nh.com

**RE:** 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

Dear Ms. Monroe:

Enclosed is the prefiled testimony of Robert J. Cote & Bruce A. Adami, intervenors of the Deerfield Abutting Property Owners' Group in the above-captioned proceeding.

Copies of the enclosure have been forwarded via e-mail to all parties on the enclosed Discovery Distribution List. Please note that due to the 30 MB file size of the attachments to our prefiled testimony, the attachments are being provided only to the SEC to be made publicly available via the SEC project web page.

Thank you.

Sincerely,

Robert Cote Bruce Adami Deerfield Abutting Property Owners

Enclosure

cc: Distribution List via e-mail

# STATE OF NEW HAMPSHIRE BEFORE THE SITE EVALUATION COMMITTEE Docket No. 2015-06

# 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 TO CONSTRUCT A NEW HIGH VOLTAGE TRANSMISSION LINE AND RELATED FACILITIES IN NEW HAMPSHIRE

PREFILED TESTIMONY OF ROBERT J. COTE AND BRUCE A. ADAMI DEERFIELD ABUTTERS

**NOVEMBER 15, 2016** 

#### 1 Please state your name and address.

- 2 Robert J. Cote, and Bruce A. Adami, 32 Mountain Road, P.O. Bo 507, Deerfield, New
- 3 Hampshire 03037.
- 4

### 5 Robert, what credentials and experience do you possess?

- 6 First and foremost, we are landowners of our Deerfield property since 1994 (22 years)
- 7 over which the proposed transmission line will pass. We are committed to the well-being
- 8 of our planet and have fully put into practice what we "preach." Our Deerfield home is
- 9 highly energy efficient, and is independent of the electrical grid. Our home's only
- 10 external energy sources are propane for hot water and cooking and wood for heat when
- 11 passive solar does not meet the needs of our home. Our home has been featured in New
- 12 Hampshire Home magazine (Exhibit A).

13



- 14 15
- 16 Our experience indicates that substantial opportunities exist for residential energy usage
- 17 reduction. We are entirely "off-the-grid" and utilize approximately 5 KWh/day of

<ul> <li>cords of wood/year for supplemental heat. The home is a modern 2,800 square foot</li> <li>living area residence with full amenities, without deprivation and minimal inconvenience</li> <li>of life-style. We do not consider ourselves an example of what everyone should do – but</li> <li>rather an example of the extent to which energy conservation measures remain significant</li> <li>for adoption by New England in general.</li> <li>What additional credentials and experience do you possess?</li> <li>Robert is a licensed Professional Engineer in the State of New Hampshire since 1996,</li> <li>practicing in the field of Environmental Engineering. Please reference Roberts résumé</li> <li>attached as Exhibit B.</li> <li>What is the purpose of this testimony?</li> <li>We offer this testimony to explain why we, as members of the Deerfield Abutter's</li> <li>Intervenor Group, oppose the application of Northern Pass Transmission, LLC and Public</li> <li>Service Company of New Hampshire D/B/A Eversource Energy for a certificate of site</li> <li>and facility to construct a new high voltage transmission line and related facilities in New</li> <li>Hampshire (NP) before the Site Evaluation Committee.</li> <li>Do you believe Northern Pass will serve the interests of the public?</li> <li>No, we do not. This determination of unreasonableness is based on the following.</li> <li>Complete burial of the NP project will add approximately 0.02¢ per kilowatt-hour (KWh)</li> <li>to the cost of electricity for the New England region over the 40-year life expectancy of</li> </ul>
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40 to the cost of electricity for the New England region over the 40-year life expectancy of
41 the project. See attached Exhibit C for details of this simple economic analysis.
42
43 Another way to evaluate this is that the \$1,000,000,000 estimated incremental cost of
44 burial, over the 40-year life expectancy of the transmission line, is \$25,000,000 per year.
45 This incremental cost is insignificant compared to the average New England cost-benefit
46 of approximately \$800,000,000 per year (London Economics International Cost-Benefit
47 analysis).
48 49

50	By either economic evaluation, the burden placed on NH's aesthetic and natural
51	environment is extremely significant and of great importance to the residents of NH, and
52	for the long-term minimal additional cost to NE ratepayers, there can be no justification
53	that the new transmission line is reasonable as proposed.
54	
55	Why do you believe the economic benefits of this project are likely to be overstated?
56	The growth in alternative sources of electricity, especially "behind the meter"
57	photovoltaics, is significantly underestimated by the data utilized by London Economics
58	in its cost-benefit analysis of the project.
59	
60	The ISO New England Final 2016 Solar PV Forecast Details is attached as an Exhibit D.
61	Notably, it predicts (on slide 34) cumulative total MW installed capacities in 2025 of 79.3
62	MW for NH and 1,705 MW for MA.
63	
64	However, installed PV in NH under the net metering program, which had been capped at
65	50 MW, with an increase to 100 MW in 2016, is already approaching the just-approved
66	100 MW cap. Additionally, the Solar Energy Industries Association projects that an
67	additional 242 MW of solar capacity will be installed in NH over the next five years,
68	while in MA 2,326 MW of additional capacity is expected (see Exhibit E, attached).
69	
70	Since the Applicant's cost-benefit model is based on estimated PV growth far lower than
71	these projections, the cost-benefit model should be re-run using PV growth curves in line
72	with SEIA estimates, to confirm that an error in judgment does not significantly alter the
73	outcome.
74	
75	Additionally, for the Clean Energy RFP awarded in October 2016, adequate capacity
76	was available from other New England-based renewable energy resources to satisfy the
77	requirements of the RFP. One assumption of the Applicant's modeling is that other
78	resources are not coming on line fast enough to depress demand in the Forward Capacity
79	Market (FCM). However, the evidence indicates that locally-based suppliers to the
80	renewable energy market can reduce demand in the FCM, and provide significant
81	employment opportunities as well. See Exhibit F attached from the US Department of
82	Energy regarding Energy Efficiency and Renewable Energy opportunities in NH.
83	
84	

- 85 If there is going to be a "cost" to the people of New Hampshire, such as the intangible
- 86 cost of the degraded aesthetics, there are far better ways to invest in our economy and
- 87 infrastructure.
- 88

### 89 How will Northern Pass personally affect the use and enjoyment of your home?

- 90 This project fundamentally conflicts with our vision of the proper stewardship of our
- 91 property, as well as that of the community.



92

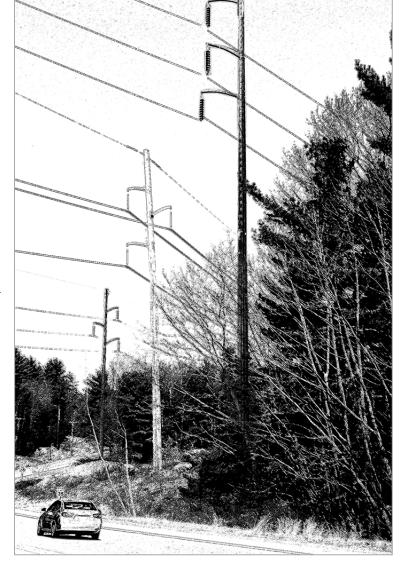
The simulated view overlooking the Cote/Adami property as depicted in the Draft EIS

- 93
- 0.1
- 94

## 95 How will Northern Pass affect the character of your community?

- 96 The rural character of Deerfield is a valued asset of the state. Deerfield has several
- 97 roadways passing under the proposed NP transmission line from which extensive and
- 98 unappealing views of the transmission line corridor are present.
- 99

- 100 These include the Route 43/107
- 101 underpass close to the Town center.
- 102 The negative visual impact at this
- 103 location is unacceptable (see my
- 104 rendering of this crossing in the
- 105 graphic to the right).
- 106
- 107 This particular segment of road is
- 108 identified by the State of NH
- 109 Department of Transportation
- 110 (NHDOT) as part of the Merrimack
- 111 Valley Region Bicycle Routes
- 112 (https://www.nh.gov/dot/programs/
- 113 <u>bikeped/maps/documents/mv\_map</u>
- 114 200 dpi.pdf see Exhibit G) in
- addition to being traveled on a
- 116 multiple times per day basis,
- 117 hundreds of times per year by
- 118 Deerfield and other area residents.
- 119
- 120 The proposed project also intersects
- 121 this bicycle route on Mount Delight
- 122 Road on the western edge of
- 123 Deerfield.
- 124



Additionally, NHDOT on May 12, 2014, designated the Upper Lamprey River Scenic Byway with the following description: "This Scenic Byway is a 45-mile route that contains outstanding scenic vistas, natural resources, and historic villages that celebrate the scenic and cultural heritage of New England. Winding through the towns of Candia, Deerfield, and Northwood, it features panoramic views of the mountains to the north, farms and forests to the east and west, and historic and cultural relics at every corner."

- 131
- 132 The Upper Lamprey River Scenic Byway follows along a section of Nottingham Road
- 133 in Deerfield between Routes 107/43 and Deerfield Parade. The open areas along the
- 134 higher elevations of this segment include vistas to the south where NP towers will be
- 135 readily visible. The proposed NP line will also intersect the scenic byway on Church

136	Street in Deerfield. A copy of the NHDOT news release and the Upper Lamprey River
137	Scenic Byway map are included as Exhibit H.
138	
139	The Applicant's prefiled testimony failed to identify or characterize the aesthetic and
140	visual impacts of these scenic resources.
141	
142	Notwithstanding the above noted deficiencies with respect to "scenic resources" that the
143	Applicant failed to address, reference is made to the following requirement:
144	
145	Site 301.14 <u>Criteria Relative to Findings of Unreasonable Adverse Effects</u>
146	(a) In determining whether a proposed energy facility will have an unreasonable
147	adverse effect on aesthetics, the committee shall consider:
148	(1) The existing character of the area of potential visual impact;
149	
150	The Applicant's expert witness maintains that aesthetic evaluations pertain ONLY to
151	"scenic resources" even under review and questioning during technical sessions. The
152	regulatory citation above clearly does not limit consideration of aesthetic impacts to
153	"scenic resources." In particular, areas in Deerfield and all along the NP corridor, with
154	hundreds, if not thousands of exposures per year for area residents traveling under the
155	transmission line locations or for local residents proximate to the transmission line with
156	direct views from their homes or yards were completely ignored by the aesthetic
157	evaluations. These cumulative visual impacts potentially have a significant impact to the
158	"character of the area" and especially area residents and were completely ignored by the
159	Applicant's facts presented to the SEC to date.
160	
161	Robert, how well does the project comply with the requirements of the U.S.
162	Environmental Agency (USEPA) Construction General Permit (CGP) for
163	Stormwater Discharges?
164	I believe that the Applicant has a fundamental misunderstanding of several important
165	requirements of the CGP based on discussions during the technical sessions. The CGP is
166	a federal permit, and is not subject to limitations in scope through negotiations with the
167	New Hampshire Department of Environmental Services (NHDES). In general, NHDES
168	does not enforce permits of other agencies, either.

169

170	Stormwater from construction activity is regulated by USEPA under the general category
171	of "storm water discharge associated with industrial activity" pursuant to Chapter 40
172	Code of Federal Regulations (CFR) 122.26(b)(14)(x):
173	40 CFR 122.26(b)(14) Storm water discharge associated with industrial activity means the discharge
174	from any conveyance that is used for collecting and conveying stormwaterThe following categories
175	of facilities are considered to be engaging in "industrial activity" for purposes of paragraph (b)(14):
176	$\dots(x)$ Construction activity including clearing, grading and excavation, except operations that
177	result in the disturbance of less than five acres of total land area. Construction activity also
178	includes the disturbance of less than five acres of total land area that is a part of a larger common
179	plan of development or sale if the larger common plan will ultimately disturb five acres or more.
180	
181	"Point source" discharges associated with construction activity are required to obtain
182	National Pollutant Discharge Elimination System (NPDES) permit coverage pursuant to
183	the above and 40 CFR Part 122 defines a "point source" as:
184	any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch,
185	channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding
186	operation, landfill leachate collection system, vessel or other floating craft from which pollutants are
187	or may be discharged.
188	
189	I was able to speak by telephone with Thelma Murphy on September 23, 2016, USEPA
190	Region 1 Stormwater Permits Coordinator. My question was regarding the definition of
191	"discharge point" in the EPA Construction General Permit for Stormwater Discharges
192	(CGP). It's a critical definition, since this is the point to which all limits and controls
193	apply. I specifically told her that the case in question was a linear transmission line
194	project, without giving further detail.
195	
196	Thelma confirmed my understanding of the term "discharge point." It pretty much means
197	ANY channelized flow that leaves the site and enters surface water. Even ignoring minor
198	runoff, this could involve hundreds of discharge points along the NP 192 mile project
199	route, all of which are required to be identified, included in the permit application, and
200	monitored, as well as being identified on site figures. The Applicant's representatives
201	appear to believe that only permanent structures at nine substations and transition stations
202	are subject to the "discharge point" requirements. The USEPA program confuses this
203	issue somewhat, by using the terms "point source," "outfall," and "discharge point" in
204	different citations to mean substantially the same thing.
205	

206 The EPA Discharge Mapping Tool further substantiates this concept and is provided as 207 Exhibit I. It states: "During conditions that generate stormwater discharges from a point 208 within a catchment, it is assumed that this discharge will eventually reach the water 209 segment associated with the catchment." Using this concept, any stormwater leaving the 210 vicinity of the construction activity is assumed by EPA to reach surface water, whether it 211 is directly or indirectly. 212 213 EPA's objective in promulgating non-numeric effluent limits (Best Management 214 Practices or controls) that apply to discharges from construction sites is to prevent the 215 mobilization and discharge (from point sources) of sediment, turbidity, and other 216 sediment-bound pollutants, such as metals and nutrients, and to prevent or minimize the 217 exposure of stormwater to construction materials, debris, and other sources of pollutants 218 on construction sites. 219 220 CGP Section 7.2.4 includes the requirement to map in its Stormwater Pollution 221 Prevention Plan (SWPP) all discharge point locations to surface waters or storm drains 222 for the construction activities. The site map must also include locations of all stormwater 223 control measures. 224 225 Since the major objective of this Clean Water Act program is to protect "waters of the 226 United States" it is critical for the Applicant to identify all locations where stormwater 227 from the construction activity is likely to enter waters of the United States. The CGP 228 requires inspections of all discharge points weekly and within 24 hours of a storm event 229 of 0.25 inches or greater. A major purpose of these inspections is to confirm that the 230 BMPs are properly functioning to prevent surface water degradation so that the objectives 231 of the permit are met. This cannot be achieved by limiting the Applicant's interpretation 232 of discharge points to the substations and transition stations. 233 234 Additionally, these SWPPP requirements provide property owners affected by the project, 235 as well as interested members of the public where the project intersects with publicly 236 accessible areas, with important information regarding the project, and a basis for 237 reporting compliance concerns to USEPA. Additional information is presented in the 238 attached Exhibit J entitled Frequently Asked Questions on EPA's NPDES 2012 239 Construction General Permit.

240

241	Additionally, Appendix D of the CGP requires that the Applicant evaluate and determine
242	its eligibility for permit coverage under one of the criteria in Appendix D with respect to
243	the protection of federally listed threatened or endangered species and federally
244	designated "critical habitat" [hereinafter "threatened and endangered species"] under the
245	Endangered Species Act (ESA) from discharges and discharge-related activities.
246	
247	With respect to the CGP's Appendix D Endangered Species Act Eligibility Criteria, the
248	CGP requires that:
249	You must certify in your NOI that you meet one of the eligibility criteria listed below in order to be
250	eligible for coverage under this permit. You must also specify in the NOI the basis for your selection
251	of the applicable eligibility criterion.
252	Note: (1) Regardless of the criterion selected, you must provide documentation in your SWPPP that is
253	sufficient to support your determination that you satisfy the requirements of the particular criterion.
254	
255	The draft SWPPP does not currently contain the above-required documentation.
256	
257	There are six criteria listed, each with specific evaluations that must be completed, and all
258	of them are dependent of the definition of an "action area," which is provided below:
259	
260	"Action Area" - all areas to be affected directly or indirectly by the federal action and not merely the
261	immediate area involved in the action. See 50 CFR 402. For the purposes of this permit and for
262	application of the Endangered Species Act requirements, the following areas are included in the
263	definition of action area:
264	• The areas on the construction site where stormwater discharges originate and flow toward the
265	point of discharge into the receiving waters (including areas where excavation, site development, or
266	other ground disturbance activities occur) and the immediate vicinity. (Example: Where bald eagles
267	nest in a tree that is on or bordering a construction site and could be disturbed by the construction
268	activity or where grading causes stormwater to flow into a small wetland or other habitat that is on the
269	site that contains listed species.)
270	• The areas where stormwater discharges flow from the construction site to the point of discharge
271	into receiving waters. (Example: Where stormwater flows into a ditch, swale, or gully that leads to
272	receiving waters and where listed species (such as listed amphibians) are found in the ditch, swale, or
273	gully.)
274	• The areas where stormwater from construction activities discharge into receiving waters and the
275	areas in the immediate vicinity of the point of discharge. (Example: Where stormwater from

276	construction activities discharges into a stream segment that is known to harbor listed aquatic
277	species.)
278	• The areas where stormwater controls will be constructed and operated, including any areas where
279	stormwater flows to and from the stormwater controls. (Example: Where a stormwater retention pond
280	would be built.)
281	• The areas upstream and/or downstream from the stormwater discharge into a stream segment that
282	may be affected by these discharges. (Example: Where sediment discharged to a receiving stream
283	settles downstream and impacts a breeding area of a listed aquatic species.)
284	
285	During the technical sessions, the Applicant's representatives appeared to be unfamiliar
286	with this obligation and have not identified action areas or the specific criterion under
287	which it is eligible for coverage under the CGP with respect to threatened and endangered
288	species.
289	
290	Appendix G of the CGP provides approximately 24 pages of requirements for
291	construction activity occurring within 50 feet of waters of the United States. The
292	applicant is required to document in its SWPPP the natural buffer width that is retained.
293	Otherwise, it must document the reduced width of the buffer that will be retained (and it
294	must also describe the erosion and sediment controls will be used to achieve an
295	equivalent sediment reduction). The applicant must also show all buffers on the site map
296	in the SWPPP. Additionally, if any disturbances occur within the buffer area, they must
297	document this in the SWPPP. Currently, the SWPPP does not address these substantive
298	requirements.
299	
300	Appendix J – CGP Notice of Intent (NOI) Form and Instructions – Requires that the
301	applicant identify all the outfalls from the site that discharge stormwater and/or
302	authorized non-stormwater. Each outfall must be assigned a unique 3-digit ID (e.g., 001,
303	002, 003). The applicant must also provide the latitude and longitude for each outfall.
304	For each unique outfall, the applicant must specify the name of the first water of the U.S.
305	that receives stormwater directly from the outfall and/or from the MS4 that the outfall
306	discharges to.
307	
308	The CGP is due for reissuance in 2017, and a draft version of the permit was proposed
309	April 11, 2016. The current CGP expires February 16, 2017. It is my experience based
210	

311 312	to the draft 2017 CGP, and therefore the draft 2017 CGP and Fact Sheet are attached as Exhibit K for further reference in this docket with respect to the above-noted concerns.
313 314	Does the Deerfield substation have a site-specific oil Spill Prevention, Control and Countermeasures (SPCC) Plan as stated in the testimony of Jacob Tinus?
315 316 317	No. It was not provided with the 401 Water Quality Certification, as stated in the Jacob Tinus testimony. Assuming this was an oversight, it was informally requested during the technical sessions, and a "boilerplate" non-site-specific procedure describing how an
318	SPCC Plan should be prepared was provided.
<ul> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> </ul>	Transformers and other electrical devices can contain 500 gallons or more of oil subject to federal and state regulatory oil spill prevention programs. In addition, containment systems, especially any that are exposed to weather, will accumulate precipitation requiring periodic draining. Both the spill containment measures and control of any discharged stormwater accumulations to adjacent surface waters are important to define, which has not been completed at this time.
327	The substation and converter station will also be subject to the NH Aboveground Storage
328 329 330	Tank regulations of Env-Or 300 if any device contains greater than 660 gallons of oil. The Applicant is not currently aware if it will be subject to this program.
331	CONCLUSION
<ul> <li>332</li> <li>333</li> <li>334</li> <li>335</li> <li>336</li> <li>337</li> <li>338</li> </ul>	In this testimony we have outlined the negative impacts NP will have on our community and on us personally, as well as reasons the project is not needed. We have cited specific examples of environmental obligations of which NP seems to be unaware. The economic and environmental benefits of other energy options are noteworthy, and do not impose the many negative aspects of NP on the people of New Hampshire. We look forward to the Committee's careful review of the Project, its impacts, and all appropriate concerns under the provisions of RSA 162-H.