### STATE OF VERMONT PUBLIC SERVICE BOARD

Docket No. 7081

Investigation into Least-Cost Integrated Resource	§
Planning for Vermont Electric Power Company, Inc.'s	§
Transmission System	§

## **REBUTTAL TESTIMONY**

### OF

### PAUL R. PETERSON

### **ON BEHALF OF**

### **CONSERVATION LAW FOUNDATION**

November 28, 2006

1	Q.	Mr. Peterson, please state your name and business address.
2	A.	My name is Paul R. Peterson. I am a Senior Associate at Synapse Energy
3		Economics, Inc., 22 Pearl Street, Cambridge, MA 02139.
4	Q.	On whose behalf are you testifying in this case?
5	A.	I am testifying on behalf of the Conservation Law Foundation.
6	Q.	Mr. Peterson, have you testified in this proceeding?
7	A.	Yes. I filed direct testimony on October 26, 2006. In that testimony I
8		summarized my professional experience and provided a copy of my current
9		resume.
10	Q.	What is the purpose of your rebuttal testimony?
11	A.	I am responding to the prefiled testimony of Mr. Bruce Bentley, on behalf of
12		Central Vermont Public Service Corporation (CVPS), Mr. Dean LaForest, on
13		behalf of Vermont Electric Power Company, Inc. (VELCO), Mr. Riley Allen, on
14		behalf of the Vermont Department of Public Service (DPS), and Mr. Duncan
15		Hastings on behalf of the Village of Johnson Water & Light Department. My
16		rebuttal testimony responds to issues raised in their testimony and shows how the
17		MOU fails to meet the goals set out by the Board for this docket, how their
18		testimony confirms this failure, and how doing nothing as recommended by the
19		Village of Johnson does not meet the goals set out for this proceeding. I conclude
20		with a recommendation that the Board not adopt the MOU as it will not meet the
21		needs of Vermont to have a process that will ensure fair evaluation of
22		transmission and non transmission alternatives and ensure that electricity
23		reliability needs will be met at least cost as required by Vermont law. Instead, the
24		Board should require parties to present a revised process that will address the
25		deficiencies identified in the MOU.

#### 1 Q. What concerns do you have with Mr. Bentley's testimony?

2 A. Mr. Bentley's testimony simply summarizes the Planning Steps 7, 8, and 9 of the 3 MOU. It lacks analysis or explanation of why these planning steps create a 4 process that will evaluate non-transmission alternatives (NTAs) on a comparable basis with transmission facilities to ensure that Vermont's electricity is reliably 5 6 transmitted at least cost. The testimony provides no information for the Board to 7 substantively evaluate the MOU and it fails to provide any basis for the Board to 8 accept the MOU or determine that it presents a process that meets the objectives 9 of this proceeding. It merely concludes that the process in the MOU will be more 10 "transparent" and more "efficient" but it fails to articulate how these changes will 11 provide a better result instead of simply adding more process that will continue 12 the current flawed analysis. In fact, Mr. Bentley's testimony does not even refer 13 to the adoption of least-cost solutions.

14 Q. What concerns do you have with Mr. LaForest's testimony?

15 A. Similar to Mr. Bentley's testimony, Mr. LaForest's testimony also provides only a 16 description of the MOU process with no analysis of how the process will achieve 17 the objective of selecting least-cost solutions. It fails to provide any basis for the 18 Board to accept the MOU. It simply states there will be a more comprehensive 19 planning process that will consider NTAs and that there will be a transparent and 20 meaningful level of public involvement in the process (prefiled at p.2). However, 21 the testimony fails entirely to address how the planning process described will be 22 more comprehensive or how the public involvement will be meaningful. As with 23 Mr. Bentley's testimony, it is worth noting that except for the docket caption, Mr. 24 LaForest's testimony also fails to contain the phrase "least-cost."

25 Q. Please describe your concerns with Mr. Allen's testimony.

A. Mr. Allen's testimony also fails to provide a basis for the Board to approve the

27 MOU, or show how the MOU will meet the Board's objectives in this

28 investigation. Although it provides slightly more analysis than Mr. Bentley's or

1 Mr. LaForest's testimony, its focus is on the process's providing more effective 2 coordination and improved information sharing, as well as the greater cooperation 3 among utilities and transparency that the VSPC is supposedly designed to provide 4 (Allen prefiled at p.5). While these may be worthwhile improvements to the 5 current transmission planning process, they do not advance the fundamental goal 6 of the Board's investigation: that transmission and non-transmission alternatives 7 are fairly and comparably evaluated in order to select an optimal, least-cost 8 solution. Absent analysis or explanation of how the changes will allow least cost 9 solutions to be effectively evaluated and implemented, the testimony fails provide a basis to approve the MOU. 10

# 11 Q. Are there specific portions of Mr. Allen's testimony that you dispute? If so, 12 what are they?

A. Yes. I disagree with Mr. Allen's characterization of and recommendation
regarding the evaluative test for selecting least-cost alternatives; his assessment of
the ability of the VSPC to evaluate and select alternatives; his dismissal of the
importance of equivalent funding for NTAs; and his rejection of integrated
resource plans in the absence of an effective structure for evaluating and
implementing least cost solutions.

# 19 Q. What are your concerns about the evaluative test for selecting least-cost 20 alternatives?

As Mr. Allen recognizes, the societal test is "the principle touchstone in project 21 A. 22 evaluation and selection" in Vermont, and that it is "critical that total costs ... be 23 included in the evaluation of the alternatives" (Allen prefiled at p.8). His 24 testimony supporting the use of other tests to evaluate resource selection runs 25 afoul of this principle and cannot be accepted without abandoning the requirement 26 of providing energy services at least cost. As I stated in my prefiled testimony, 27 the societal test is well-established in Board precedent as the standard for meeting 28 least-cost planning requirements. Shortly after the Board articulated the societal

test as the primary standard for evaluating utility investment in demand side
 measures in its April 1991 Order in Docket No. 5270, the legislature codified that
 standard in 30 VSA 218c(a)(1).

4 The MOU departs from using the societal test to evaluate resource options and 5 instead identifies several alternative considerations in paragraph 40. Other than 6 40 (c), which I will discuss below, these other tests and evaluations may provide 7 additional insight on subsidiary matters, but they are not determinative as to 8 which alternative is the "least cost" solution or investment. A test, such as the 9 societal test, that considers all costs (or "total costs" as Mr. Allen states it) cannot 10 be subordinated to tests that look only at particular costs. If other tests were used 11 instead of the societal test, which considers all costs, then there would be no 12 assurance that the alternative selected is the "least-cost" option within the 13 meaning of Vermont statute and Board case law.

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#### Q. What is your concern with regard to sub- paragraph 40 (c) of the MOU?

15 A. Sub-paragraph 40 (c) states that when comparing alternatives, the ability to 16 implement an alternative in a timely manner should be considered. While timely 17 implementation may be an import issue, it is not appropriate to include it in an 18 initial comparative evaluation between alternatives. Implementation issues 19 should be considered in a separate process after the comparative analysis of the 20 alternatives has been completed. Considering the timeliness of implementation at 21 this stage would invite either intentional or unintentional delay to subvert 22 acquiring a least cost option. It could also take out of consideration options that 23 other parties or the Board might find ways to accelerate so that they were timely, 24 after all.

## Q. What is your recommendation to the Board in light of Mr. Allen's testimony on the societal test?

A. I recommend that the Board reaffirm that the relevant evaluative standard for
choosing among transmission and non-transmission alternatives is the societal

1	test. The language in paragraph 40 of the MOU should state that the analysis
2	specified under 30 VSA section 218c(a)(1) is the societal test and that this test
3	cannot be supplanted by other analyses. Once this change is made to paragraph
4	40, then the language in paragraphs 41 and 42 that transfer the language of
5	paragraph 40 to the Docket 5980 and Docket 6290 MOUs can stand. If the Board
6	does not change the language to paragraph 40 to make it clear that the societal test
7	is the evaluative standard, then the language in paragraphs 41 and 42 will weaken
8	the evaluations conducted pursuant to those other MOUs. It certainly would be an
9	unfortunate irony if this proceeding, intended to incorporate the principles of least
10	cost planning to solutions for transmission problems, results in eroding the least
11	cost standard in other settled dockets. The fact that the MOU attempts to do this
12	is further evidence of the MOU's failure to meet the Board's objectives for
13	transmission planning and must be rejected.

# 14 Q. What are your concerns regarding the ability of the VSPC to evaluate and 15 select alternatives?

- A. Mr. Allen states that the VSPC's fundamental design is to bridge gaps and
  facilitate better cooperation and coordination among distribution utilities and
  VELCO. (Allen prefiled at p.15) However, Mr. Allen fails entirely to
  demonstrate that the VSPC, as set forth in the MOU, will result in fairer or more
  effective evaluation and implementation of least cost transmission alternatives.
  As structured in the MOU, the VSPC will not meet the objectives set forth for this
  proceeding and should be rejected.
- The MOU sets forth a very narrow and limited view of what a VSPC or similar independent entity should be designed to achieve. To meet the objectives of this proceeding, the VSPC should be designed to develop and evaluate alternatives to traditional transmission solutions. This is broader and more substantive than the "coordination and cooperation" function set forth in the MOU. With a

substantive function and properly structured, such a body could actually advance
 the objectives of this docket.

3 However, apart from the substantive function of the VSPC, the proposed structure 4 of the VSPC also shows that it will fail to meet the objectives of this proceeding. 5 Mr. Allen's testimony fails to demonstrate that the VSPC structure will provide 6 for better transmission planning and better evaluation and implementation of non-7 transmission alternatives. First, there is no showing that the three public members 8 of the VSPC will in any way be able to improve the evaluation and 9 implementation of least cost alternatives. They will always be a small minority 10 and as such unlikely to have any significant impact on the VSPC evaluation and 11 selection process. Second, the VSPC itself lacks any independence that would 12 enable it to enhance the evaluation and selection process. The structure merely 13 advances the existing utility interests which are already represented, and 14 controlling, in the existing process. There are no provisions in the MOU for the 15 VSPC (including the three public members) to have access to independent 16 analyses or to contract with outside entities to enhance the VSPC's understanding 17 of problems and possible alternatives. In my view, the proposed VSPC structure 18 will continue the existing structure that advances traditional utility solutions for 19 transmission problems. The public members of the VSPC, who serve essentially 20 as uncompensated volunteers, will be severely disadvantaged in evaluating and 21 advocating for appropriate non transmission alternatives in meetings and 22 deliberations dominated by professional utility transmission planners that are 23 being compensated by their respective companies. While the proposed VSPC 24 might or might not succeed in lessening "turf" battles between VELCO and the 25 distribution utilities, there is no showing that the VSPC will change the current 26 inability of Vermont utilities to evaluate least cost solutions that incorporate 27 NTAs in a timely manner. The Northwest Reliability Project is the most recent 28 example of the inability to effectively evaluate and implement least cost 29 transmission solutions. The structure of the VSPC as proposed in the MOU does

nothing to address this historic and significant shortcoming that leads to
 traditional transmission solutions being favored even when they are not the least
 cost solution.

#### 4 Q. What is your recommendation to the Board regarding the VSPC?

5 A. As explained more fully in my direct testimony, I recommend that the Board 6 either re-structure the VSPC into a three member board with greater authority, or 7 create a separate independent entity that has explicit authority to evaluate and 8 select least cost options that become recommendations for VELCO and the 9 distribution utilities implement. An independent entity with responsibility to 10 ensure a fair evaluation of non transmission alternatives should have its own 11 budget, the authority to bill costs to the Vermont utilities, the authority to engage 12 outside consultants to provide analysis and evaluations, the power to compel 13 people to appear and to provide information, and the ability to utilize the planning resources of VELCO and the DUs to model alternative scenarios. These are 14 15 minimum requirements for the successful development, review, and selection of 16 least cost solutions as they would ensure an independent evaluation and the 17 information needed to inform that.

## 18 Q. Apart from restructuring the VSPC, are there other means that could 19 improve the evaluation and implementation of NTAs?

20 A. Yes. If the Board is to use the proposed structure of the MOU, the efficiency 21 utility should have an expanded role in evaluating and implementing NTAs. In 22 particular, the efficiency utility should be responsible for evaluating all 23 alternatives on the customer side of the meter that would potentially avoid or 24 delay transmission projects. As the entity responsible for evaluating and 25 implementing cost-effective energy efficiency measures throughout the state, the 26 efficiency utility is well positioned to evaluate all customer based alternatives 27 (efficiency, load management, and generation) that would be available. The 28 efficiency utility can expand upon its current experience in evaluating how best to

1	meet customer energy needs to include a broader range of efficiency measures
2	than are currently provided as well as customer load management and generation
3	options. This is a logical extension of its existing expertise and experience.
4	Moreover, this is precisely what many Efficiency Service Companies (ESCOs)
5	already do. Since Vermont already has an efficiency utility, its expertise should
6	be used to improve the evaluation and implementation of NTAs throughout
7	Vermont. This can be achieved by expanding the role of the efficiency utility to
8	one that includes a broader evaluation of energy efficiency, load management,
9	and generation options on the customer side of the meter for all potential
10	reliability deficiencies.

# 11 Q. What are your concerns about the importance of equivalent funding for 12 NTAs?

13 A. Mr. Allen notes that for some Vermont transmission projects, region-wide 14 funding is available and that this option is not available for NTAs. He then states 15 that this is an issue beyond the scope of the MOU. (Allen prefiled at 18-19) Mr. 16 Allen ignores the language in Act 61 that specifically requires the Department and 17 Vermont utilities to advocate for regional cost support for least cost solutions. 18 Act 61 Sec. 8. This is not an issue that can be left outside the scope of the MOU 19 because it is so basic to the comparative analysis of alternative options. Even if 20 the legislature had not specifically identified the importance of this issue, its 21 inclusion in the MOU would be necessary. Creative solutions to the current 22 unequal funding situation need to be developed before any new process can meet 23 the goal that Mr. Allen claims the Board established when it opened this 24 investigation: "that cost-effective non-transmission alternatives are given full, 25 fair, and timely consideration relative to potential transmission projects". (Allen 26 prefiled at p.4). The MOU's failure to provide for equivalent funding for NTAs 27 demonstrates the MOU's fundamental failure to provide a process that will allow 28 fair evaluation and implementation of least cost solutions, and precludes the 29 Board from approving the MOU.

# Q. What are your concerns regarding the lack of integrated resource planning for transmission projects?

3 A. Integrated resource planning is one means to evaluate a wide variety of resource 4 options and select the one that provides the least cost solution. It is used for 5 resource planning by distribution utilities in Vermont as required by Vermont 6 statute. It has been specifically excluded from the MOU. Although an IRP is not 7 the only means to evaluate and select least cost solutions, absent an effective 8 process that will ensure fair evaluation and selection of least cost solutions, it 9 remains an existing process that is designed to achieve this result. Since the 10 MOU fails to provide an effective transmission planning process, the Board 11 should either modify the process in the MOU to make it effective, or require IRPs 12 for transmission projects.

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### Q. What concerns do you have with Duncan Hastings testimony?

While I agree with Mr. Hastings's conclusion that the MOU should not be 14 A. 15 approved as proposed, I disagree that no changes to the current transmission 16 planning structure are needed. Mr. Hastings reaches a conclusion similar to mine 17 when he states: "The MOU being considered by the Public Service Board creates 18 a burdensome new layer of bureaucracy that will do little to address the issues of 19 providing reliable cost effective electricity to Vermont ratepayers and may in fact impede that goal." (Hastings prefiled at 3). While I would agree with this 20 21 statement, I strongly disagree that the solution is to do nothing. As stated in my 22 prefiled testimony, the existing system is very flawed and leads to an ineffective 23 evaluation and implementation of least cost solutions for transmission. This was 24 noted by the Board in the NRP proceeding. Doing nothing will not rectify the 25 problems identified by the Board that led to this docket being initiated. Instead, a 26 process as outlined in my prefiled testimony should be adopted.

Second, I also disagree that improved public input should be rejected. While I
agree that utilities have an obligation to serve load, this also includes the

1	obligation to do so at the least cost and in a manner that promotes the general
2	good of the state. The fact that some utilities view public input as something that
3	delays, bogs down and increases the expense of a project as reflected in Mr.
4	Hastings testimony is precisely the problem. Utilities should meet the public's
5	needs and should encourage and provide the means for the public to meaningfully
6	participate and provide input. It is the utilities' rejection of public input,
7	accompanied by an attitude of "we know best," that leads to ill conceived projects
8	being advanced, project delays and increased overall expense. Projects that go
9	forward without public opposition cost less and can be built more quickly. To do
10	this utilities need to know what the public concerns are and responsibly address
11	them. Simply cutting the public out of the process is counter-productive and
12	should be rejected by the Board.

# 13 Q. Do you have specific recommendations regarding actions the Board should 14 take regarding the proposed MOU?

A. Yes. The Board should not accept the MOU as proposed. It fails to meet the
objectives set forth for this proceeding. The Board should either (1) recommend
specific changes to the MOU to address the concerns raised by CLF and allow the
signatories to the MOU an opportunity to accept such changes, or (2) issue an
order setting forth a process for transmission planning that provides for
developing and implementing integrated resource plans (IRPs) for all
transmission projects.

#### 22 Q. Does this conclude your rebuttal testimony?

23 A. Yes.