

**STATE OF VERMONT  
PUBLIC SERVICE BOARD**

Petition of Green Mountain Power Corporation    )  
For a Certificate of Public Good, pursuant to 30    )  
V.S.A. § 248(j), For authority to build a solar    )  
Generation unit at its Berlin #5 Facility in        )  
Berlin, Vermont.                                        )       Docket No. \_\_\_\_\_

**PREFILED TESTIMONY OF  
DR. HOPE LUHMAN AND  
MARK PENNEY  
ON BEHALF OF  
PETITIONERS**

January 8, 2009

Dr. Luhman and Mark Penney present the results of the archaeological surveys The Louis Berger Group, Inc., prepared for Green Mountain Power Corporation. They summarize the principal results of the survey completed in the archaeologically sensitive areas identified for the Berlin Solar Project. Dr. Luhman and Mark Penney conclude that the Berlin Solar Project will not have an undue adverse affect on archaeological resources under Section 248.

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## EXHIBITS

Exhibit__[HEL-1]	Résumé of Dr. Hope Luhman
Exhibit__[HEL-2]	Archaeological Resource Assessment and Scope of Work/ Berlin Solar Project
Exhibit__[HEL-3]	Phase I Archaeological Survey Report
Exhibit__[MEP-1]	Resumé of Mark Penney

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1           **1. Introduction**

2       Q1.    What is your name, and by whom are you employed?

3       A1.    My name is Hope Luhman, and I am employed by The Louis Berger Group,  
4            Inc. (“Berger”), of Albany, New York. My position is Assistant Director for  
5            Cultural Resources.

6            My name is Mark Penney, and I am employed by Berger. My position is  
7            Archaeologist.

8       Q2.    What are your qualifications to present the testimony you intend to sponsor?

9       A2.    As a Senior Archaeologist and Assistant Director for Cultural Resources in  
10            Berger’s Albany office, my responsibilities include, among others, overall  
11            management of cultural resource investigations throughout the Northeast,  
12            including the New England region. In that capacity, I supervised preparation of  
13            an Archaeological Resource Assessment and a Phase I Archaeological Survey  
14            for Green Mountain Power Corporation (“Green Mountain Power”) in

1 connection with the proposed Berlin Solar Project (the “Project”). My résumé  
2 is attached hereto as Exhibit\_\_[HEL-1].

3 As an Archaeologist in Berger’s Albany office, my responsibilities include,  
4 among others, supervision of cultural resource investigations throughout the  
5 Northeast, including the New England region. In that capacity, I assisted the  
6 preparation of an Archaeological Resource Assessment and conducted a Phase I  
7 Archaeological Survey for Green Mountain Power in conjunction with the  
8 proposed Project. My résumé is attached hereto as Exhibit\_\_[MEP-1].

9  
10 Q3. Have you testified before any court or administrative agency?

11 A3. Yes. I offered prefiled testimony for the Deerfield project in Searsburg,  
12 Vermont (Docket No. 7250), for the East Avenue Loop project (Docket No.  
13 7314), and for the Southern Loop project (Docket No. 7373).

14  
15 Q4. What is the purpose of your testimony?

16 A4. At Green Mountain Power Corporation’s request, Berger assessed the  
17 archaeological potential of the Berlin Solar Project (“Project”) components  
18 through field reconnaissance of the area of potential effect (“APE”) and  
19 background research. Exhibit\_\_[HEL-2] presents the methodology and findings  
20 of the archaeological resource assessment (“ARA”) of the APE. My testimony  
21 will address the APE and proposed Scope of Work (“SOW”) in turn. The  
22 details of our work and conclusions are found in Exhibit\_\_[HEL-2].

1

2 Q5. What were Berger's conclusions with respect to the APE affected by the  
3 Project?

4 A5. Berger determined the APE's archaeological sensitivity based on its potential  
5 for intact subsurface soils, its relationship to nearby known archaeological sites  
6 and historic structures, and other criteria, including soils, topography, and  
7 proximity to water. Berger recommends that testing be conducted across  
8 approximately 0.92 hectares (2.3 acres) of the APE given its generally level and  
9 well-drained topography and proximity to the Dog River. Although modern  
10 disturbance has impacted certain portions of the APE, large sections appear to  
11 remain relatively intact.

12 Q6. Describe your recommendation to Green Mountain Power for the SOW that it  
13 should perform in the project area.

14 A6. A Phase I archaeological survey is recommended for the archaeologically  
15 sensitive portions of the APE.

16 Q7. With respect to the proposed SOW, do you believe that your recommendation  
17 represents best practices?

18 A7. Yes. Berger's ARA relied on background research and field reconnaissance to  
19 develop our assessment. An assessment such as this is intended to provide a  
20 baseline on which any subsequent investigations will be built.

21

1 Q8. In your opinion, will the SOW, if performed in the archaeologically sensitive  
2 areas that Berger identified, ensure that the Project will not have an undue  
3 adverse affect on archaeological sites?

4 A8. Yes. Berger has completed its Phase I archaeological survey of the APE.  
5 Subsurface testing in archaeologically sensitive areas revealed that the majority  
6 of the project area has been previously impacted through cutting and filling  
7 activities. Additional testing in areas where disturbance was suspected,  
8 confirmed that those areas where in fact previously impacted. No intact cultural  
9 remains were located in the APE. The Phase I archaeological survey is attached  
10 at Exhibit\_\_[HEL – 3].

11

12 **2. Conclusion**

13 Q9. Does this conclude your testimony?

14 A9. Yes.

15