

Chosen Vale, Inc. dba Enfield Shaker Museum
January 2011 – March 2011

1. *Program Title:* Weatherization, Thermal and Electric Energy Efficiency Improvements, and an Energy Educational Exhibit at the Great Stone Dwelling of the Enfield Shaker Museum.
2. *Program Type:* Type 2, 8 and 10.
3. *Summary of Work:* The goal of the grant was not only to increase energy efficiency, but to make the project a model for other historic structures.

Task 1: Alternate Heat System: 100% complete. In October 2010, Paul Rocheleau of The HVAC Guru completed his installation of the alternate heat system, and installed an additional thermostat/zone so the office can be run independently of the Museum Store, further reducing heating costs and greenhouse gases. He stayed seven (7) days in the Great Stone Dwelling in October. The second payment of \$3,723.75 was made on Oct. 11, 2010. We paid his final bill of \$4,226.25 on November 8, 2010. We paid Don Roberts \$777 in a prior quarter and had him complete the prep work for the insulation in January 2011, paying him \$8809, a total of \$9,586.

Task 2: Insulation: 100% complete. This work was done in January 2011 at the slowest time of year for the Museum. Tom Boswell prepared the rooms, put up plastic and moved out furniture. Don Roberts closed in the ductwork with cabinetry in January 2011 and opened up spaces for the insulation at a total cost of \$8,809 for two trips (Task 1). Chey Insulation blew in cellulose insulation, at a total cost of \$7,130. Mark Auger and his team began the plasterwork on January 4, 2011 at a total cost of \$11,200. Painting contractor Anthony Monmaney painted the walls and ceilings in February 2011.

Task 3: 100% complete. We purchased and installed the energy efficient lights in a prior quarter.

Task 4: 100% complete. We purchased and installed three appliances, a final one @ \$629 in February 2011.

Task 5: Colin High was paid \$2,360 to complete the exhibit 100%.

Task 6 and Task 7: Colin High worked on the plans to test the efficiency of the project and donated his time on the measurement and verification.

4. *Summary of Work January 1, 2011 – March 31, 2011:* Tom Boswell continued to contact the contractors and reviewed their schedules. He collaborated with the staff to avoid conflicts in the work schedules and the Museum's activities. He documented the work with images and reports. He also reviewed the scope of the work with the Museum's Building Committee and Preservation Planning Committee, which is chaired by Paul Mirski. As an advisor, Mirski reviewed the contracts, advised on details and reported to the board of trustees. As the energy efficiency advisor, Colin High oversaw the exhibit and advised on the measurement and verification. Don Roberts closed in the ductwork and opened up spaces for the insulation. Chey Insulation started work on January 4, and took six days to insulate the rooms on the fourth floor. Mark Auger and Sons began work in January to re-plaster the ceiling due to holes made by Don Roberts. Auger was paid on January 24

@ \$6,000 and January 31 @ \$5,200. Anthony Monmaney followed up with painting, a total of \$4,460 including paint.

5. *Jobs Created:* We did not create any new jobs but hired five contractors and their teams this quarter.
6. *Obstacles encountered:* No obstacles were encountered.
7. *Beyond the contract:* Jim Garvin, State Architectural Historian, has encouraged us to partner with Strawberry Banke, Historic New England and other museums that have encountered issues with balancing energy savings with historic preservation. In February, the board president took a tour of the upper stories of the Great Stone Dwelling to see the progress. Her remark was that the energy savings was “palpable.” We had the building heated at 55°, and the fourth floor was warm and cozy! If we had not insulated the building, the heat used to go right through the bell tower, and the entire building was uncomfortable during the winter months. We are hosting Elderhostel/Road Scholar overnight programs in April and May, and a Shaker Forum, which is an overnight weekend program in May. It is great to have the rooms in such a comfortable, pleasant condition. The exhibit will be beneficial for years to come.
8. Photos are emailed to you separately.
9. *Budget vs. Actual:* Wayne Eshelman could not assist Tom Boswell on the project, as he found a full-time job in another part of the state. Don Roberts did that work. He came within the budgeted amount, except that Wayne had intended to donate half his time @ \$5,000.
10. *Additional Steps.* We can now use the Great Stone Dwelling comfortably year-round, including themed overnight programs that are very popular, and are income-producing during the “lean winter months.”
11. We will have *press activities* upon completion of the project, and we definitely will invite the NHPUC staff to attend the functions. We are very grateful to the NHPUC for funding these projects, which are needed and are saving us utilities costs as well as greenhouse gas emissions. We want to have photos of the NHPUC team visiting the site and an article for our Summer 2011 Newsletter. Photos will also be used in the FY2011 Annual Report and annual meeting.