

Lyme Energy Committee minutes for June 17, 2013

Present: Gary Phetteplace, Sue Mackenzie, Robin Taylor, Matt Brown, Dan O'Hara
Absent: Mark Bollinger, Scott Nichols, Joanna Laro

Gary Phetteplace called the meeting to order at 7:32

The minutes of the May 20, 2013 meeting were approved as circulated.

The following discussions relate to the situations at the Lyme Highway Department Garage that were observed at the last meeting:

1. Slide gate in pellet silo. Scott now has the gate but not the housing. The installation may be problematic and will be discussed next month. Scott is in contact with Pelletier Millwrights about getting them to add the slide gate and is waiting for a final proposal. Matt stated that he will contact Morty to make sure a load of pellets doesn't get delivered before the gate is in place.

ACTION: Scott and Matt

2. Circulator Pump. Based on the information that Scott gathered and presented in his May 21 Email it is probable that a smaller circulator pump will be adequate and we recommend that the smaller pump be procured and then installed by Curt Shepard. (The Energy Committee recognizes that it is up to the Highway Department to arrange for this to be done.)

ACTION: Scott

3, Heat Exchanger This part should be removed from the system (now that it is legal to do so according to NH Code) This will include the replacement of the plain steel expansion tank with a bladder type to eliminate the corrosion problem there. Sue will talk with Dina to get whatever plans and design calculations for the system there are, but it was the feeling of the committee that there was enough information now to be reasonably sure that this should be done.

ACTION: Sue to get plans

4. Lighting is a problem because the application does not really require high bay type lighting and the warm up time for the lights is a problem. Also lamp replacement is difficult because of the height, and moisture (condensation or leaks?) causes failures. The moisture problem should be resolved before any change to the lighting. Task lighting (movable pole mounted lights or?) should be available for specific work.

ACTION: None until moisture problem corrected, except we recommend task lighting be procured.

5. Overhead Doors. In the estimation of the Energy Committee the doors are satisfactory and resolving the moisture problem and insulation issues should come first. Operation

of the doors when there is a power failure remains an issue but others are addressing the issue of an emergency stand by power source.

ACTION: None by this committee at this time

6. Insulation: Using approximate areas and an estimate from Bill Johnson (of Johnson Spray Foam Insulators) Matt has guesstimated the cost of spray foam insulation (R19 walls and R30 ceiling) conservatively at \$ 116,000 (including fire retardant covering and removal of existing insulation). Sue shared that this is a major capital expenditure that will likely require a warrant article. The main motivation for this investment would be to prolong the life of the building.

ACTION: Matt to work with the building maintenance committee.

7. Ventilation System: The fan is very noisy and the intake louvers tend to freeze. Data logging instruments (Frank Boles has these) to measure temperature and humidity levels in the building should be used to help come up with a comprehensive plan.

ACTION: Matt to work with the building maintenance committee.

8. A draft copy of the minutes (this meeting) including the following “bullet list” of our recommendations should go to the building committee:

- Slide Gate for Pellet bin (by Mark Pelletier with Scott Nichols)
- remove heat exchanger for boilers and replace expansion tank
- replace 3 phase circulator pump with single phase pump
- make no changes to installed lighting until moisture issue is resolved
- install temperature and moisture data logging instrumentation
- consider issue of building envelope insulation as high priority

The Energy Committee is willing to help with leg work obtaining quotes, assessments, fire code requirements etc.

Adjourned at 8:35

Next Meeting July 15 at 7:30 at Town Office Building

Respectfully submitted

Dan O’Hara