

Center Harbor Energy Committee *DRAFT* Summary of Highway Garage Visit on 26 September 2016.

Attendees: Annette Nichols, Bernie Volz, Chris Williams, and Jeff Haines.

Insulating Town Highway Garage – Annette, Chris, and Bernie meet Jeff Haines at the Town's Highway Garage at about 8 AM on September 26th. The purpose of the meeting was to view the garage, the existing insulation, and discuss what might work in terms of improving the insulation of the building.

Jeff provided some information regarding the building:

1. It was built in the fall of 1987.
2. It is a Pascoe steel building constructed by Trapper Brown Corporation.
3. It originally used radiant heat, but was upgraded in 1989 to use furnaces hung from the ceiling (200,200 BTU).
4. It is a 60' x 100'x building, with a 24' x 50' addition for the fire station (to house a firetruck).
5. The heater portion of the main building is 60' x 50' with the other 60' x 50' unheated (though insulated).
6. The fire station is also heated.
7. The entire facility uses about 3600 gallons of propane per year.
8. The existing wall insulation looks to be at best 3 ½" fiberglass (covered).
9. We do not know how thick the roof insulation is (appears to be "same" type as walls).
10. Chris Williams mentioned that if insulation is improved, we might need to review the roof snow load. Jeff Haines indicated that there is rarely a lot of snow on the roof (at most 12").
11. The heated 60' x 50' garage and fire station have diesel fume scrubbers (they just filter the air, they do not vent to outside). The insurance carrier had toured the building recently and recommended a new system that would vent the air outside (similar to what is used in the main fire station).
12. These diesel fume scrubbers and the garage door tracks are below the main ceiling. A false ceiling just above these might be an option.
13. While the more energy efficient lighting improved conditions, it is still not as well illuminated as they would like. Improving the amount of lighting needs to be investigated.
14. The big garage doors are all original. While they appear to be fairly well insulated themselves, we may need to review. The weather stripping is not in good shape however.

The committee will discuss further at the next meeting.

Respectfully submitted, Bernie Volz, September 27th, 2016.

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Above – Front of building with 3 main bays for highway garage and firetruck bay at right end.



Above: West side of building.



Above: Door tracks, diesel scrubbers, and lights in heated section.



Above: Heater in corner.

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Above: Unheated portion of main building.



Above: Poor seal (but in unheated portion).

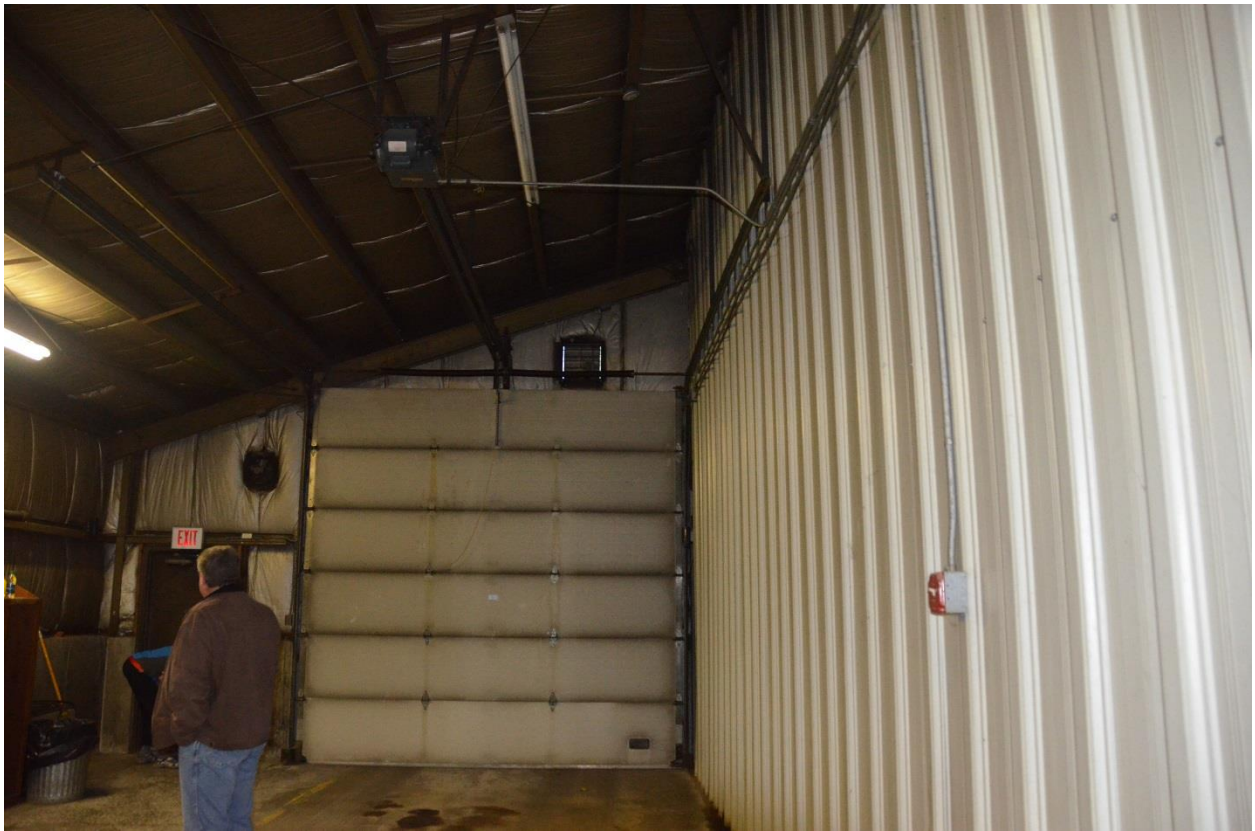
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Above: Propane tank along east side of building.



Above: Inside the fire station addition.



Above: Fire station door.



Above: Louvered fans may need to be replaced? Weather stripping on doors is not in good shape.