

Public Building Commission
July 10, 2012 – 6:30 pm
Pool Dehumidification Committee
Room 210, Town Hall

Members Present: Mr. Ron Palumbo, Committee Chairman
Mr. Vin Robitaille, Committee Chairman
Mr. John Purtill, PBC Chairman
Mr. Dave Gavin, Committee Member (Energy Commission)
Mr. Bill Kunde, Committee Member
Mr. Walt Gayeski, Committee Member (Energy Commission)

Others Present: Ms. Sheila Adams, Pool Director
Mr. Joseph Michelangelo, Public Works Dept.
Mr. Denis Rioux, BL Companies

The Chair called the meeting to order at 6:30 p.m. Roll was called and it was determined a quorum was present.

Denis Rioux reported that Greg Longo, P.E. of BL Companies had a meeting with Lew Cohen yesterday. Lew provided equipment details and some manufacturer's charts. From here, BL will develop a systematic design, energy data, and estimates of probable costs. Besides the basic unit, other items to be considered include a heat exchanger, heat recovery, and energy recovery.

Mr. Gavin stated that there needs to be a pro-forma done on energy consumption to compare with other system options. The discussion continued about Ameresco's role in the pool in general and specifically. The Ameresco work for the Town is most likely on a 2013 timeline, and the blower dehumidification issues need to be addressed sooner. It was the consensus that anything that Ameresco does in the future will complement this system. The current design will not eliminate any cogeneration potential, or other energy saving possibilities.

Denis Rioux stated that the amount of outside blower air needed per code varies based on the configuration and the return make up air. In approximate numbers, this may be as low as 6500 cfm of outside air or as high 21,000 cfm. Because we are dealing with an air supported structure, we also have to be concerned with an "air equation". Arizon has concerns that the revised design will create an over pressurization of the bubble. We have to design the blower configuration which addresses the structural integrity of the bubble, the warranty requirements of Arizon, the dehumidification requirement of the code, and the energy efficiencies desired by this commission, and the cost limitations of the Town of Cheshire. A blower configuration needs to be designed to addresses all of these interests.

In round numbers, the cost of the equipment to provide 6500 cfm is \$30K, and a heat exchanger is approximately \$2/cfm for the equipment. It is difficult to provide a cost estimate before the design.

There was discussion on the 95% Rule, and how it pertained to this project. The 95% Rule is an ASHRE standard that allows for 5% deviation/ allowance due to extreme conditions. Denis Rioux stated that the design will be based on highest “average” humidity. The best days to have the bubble up to meet the humidity standard are from mid-October through mid-May.

BL’s timetable is that in 3-4 weeks they should be able to provide a schematic design package and cost estimate. The schematics will not be ready for the next PBC meeting, scheduled to be held on August 1, 2012. Denis will report on progress at that meeting, and we’ll most likely need a special project committee meeting and a special PBC meeting sometime in mid August. Denis Rioux will provide email updates along the way. Mr. Gavin stated he would like energy reclamation/lifecycle included in the schematic design report.

Discussion moved to contracting with BL for this design. There is a standing proposal for this work which dates back on March 28, 2012. This is for a total cost of \$19,800, which includes work during the construction. Mr. Rioux stated that he is confident that the schematic plans and reports requested can be performed for 1/3 of this total cost.

Mr. Robitaille motioned to approved the schematic design portion of the work referenced in the 3/28/12 proposal, to BL Companies for a sum of not to exceed \$7,000. Mr. Palumbo seconded. All in favor.

Walt Gayeski made a motion to adjourn. Motion was seconded by Ron Palumbo and carried unanimously. Meeting was adjourned at 7:25pm.

Submitted by:

Joseph Michelangelo