

**From:** [Yilcan.Guzelgunler@RegalBeloit.com](mailto:Yilcan.Guzelgunler@RegalBeloit.com) [<mailto:Yilcan.Guzelgunler@RegalBeloit.com>]

**Sent:** Tuesday, February 25, 2014 9:54 AM

**To:** Kent, Christopher

**Subject:** Comment on Pool Pump Connected Functionality - Draft 1

Dear Christopher,

I wanted to comment on power measurement and reporting mentioned in the "Pool Pump Connected Functionality - Draft 1". It is indicated in the draft that the power usage reported in the variable speed pumps shall be used for calculating the cost of the energy used. Being a developer of one of the products in the market, I can say that the power reported in these products is not very accurate. Due to the cost implications, these products do not directly measure the input power rather estimate it. What you will find in general is that the accuracy varies greatly from low speed operation to high speed operation, high speed operation being the most accurate. This is due to the cubic power characteristic of the pump. At very low speed a pump may be drawing less than 100W and at the max speed it may be drawing more than 2000W. This is something needs to be taken into account.

Regards,

Yilcan (Yuljohn) Guzelgunler

Sr. Development Engineer  
Regal Beloit  
Enabling Technology  
531 North Fourth St.  
Tipp City, Ohio 45371-1899

Ph. 937-669-6233