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April 30th 2012 ~ Monday Morning Minutes:

Cooling Tower Pumps and Piping – Part 4

It's all about Pressure.

By Norman Hall

NOTE: We found an error in our last Monday Morning Minute and corrected it at 9:30 AM on 4-23-12. If you read or printed the MMM before that time, please go back at re-print it.

Last week the R. L. Deppmann Monday Morning Minute left you with a multiplier of 1.3, 1.5, or 2.0 to use with the pump **NPSH**_R. Let's look at an example this week using the suction energy formula we introduced last week and add one more margin to the formula.

Let's start with the additional margin. Tower water has a great deal of air entrained and that air can play havoc with the gauge pressure at the pump suction. How often have you witnessed the bouncing gauge in this situation? This is the reason I add 5 extra feet to the *NPSH*_R as a safety factor. You may choose to add this or not, but I always start by adding it in. Now let's look at an example. I suggest you have the last Monday Morning minute handy.



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Next week we turn out attention to the suction piping of the cooling tower pump and available NPSH...

Click here to request a copy of the Xylem Bell and Gossett Cooling Tower Piping technical bulletin TEH-1209

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