NMED Water Loss Control Training

A#2 Data Validity Applied Activity

1. Look at the water audit you completed using your own system data. If there are any changes you feel you need to make based on training discussions, please revise the value inputs accordingly. Or, if you haven't yet completed your water audit, complete the inputs now.

2. Look at each of your data inputs and determine the most appropriate data grade for your specific situation. To select the grade for each input, determine the highest grade where your utility meets or exceeds **ALL** criteria for that grade and all grades below. Feel free to use the data grade worksheets from class or the data grade sheets from the software.

3. Take a look at the overall data validity score. See which areas were considered Priority Areas for Attention (these are noted at the bottom of the reporting worksheet.)

4. Compile the supporting documents that were discussed in training. These include:

   - Monthly water supplied volume
   - Production meter testing results (if performed)
   - Water volume sold by rate code, by month
   - Retail rate schedule for audit year
   - What you spent on power and chemicals in the audit year
   - What you spent purchasing water in the audit year (if applicable)

5. Review supporting documents against the audit inputs to check the calculations and look for common pitfalls as discussed in training. In addition, review the performance indicators tab, particularly

   - Apparent loss in gallons per connection per day: is it in the typical range (1 – 40 g/conn/day) and does the value make sense given the activities you are doing at your facility?
   - Real loss in gallons per connection per day: is it in the typical range (20 – 200 g/conn/day) and does the value make sense given the activities you are doing at your facility?
   - Or, if Real loss in gallons per connection per day is not calculated but real loss in gallons per mile of main per day is calculated instead: is it in the typical range (400 – 4,000 gallons per mile of main per day) and does the value make sense given the activities you are doing at your facility?
   - Infrastructure Leakage Index (ILI) **(ONLY IF CALCULATED):** is it in the typical range (2 – 10) and does the value make sense given the activities you are doing at your facility?

6. Use the comment fields in the water audit software to make all notations describing how you determined data grades and any assumptions or calculations you used in coming up with your inputs.