

Supplemental Checklist – Construction of Water Treatment Facilities

1. The applicant must clearly articulate why the new water treatment facility is needed. Reasons include:
 - Replacing plant that has reached its design life.
 - Meeting water quality regulations.
2. Does the new water treatment facility increase the existing capacity of the utility? If yes, then the applicant must address PSC 184.04(3)(b) “Information supporting the purpose and necessity of the project” by numerically justifying the need for the increase in treatment capacity. Numerical calculations should at least apply equations 3 and 4 from the document, “How Much Water Supply Capacity Should a Public Water System Have?” (Andy Jacque, Wisconsin Water Association Spring 2013). If this analysis is not sufficient to justify the increase in plant capacity then the applicant must provide calculations showing why the increase in capacity is needed.
3. If future demand is used to justify the increase in water treatment capacity then a copy of the demand study must be included with the application.
4. Is the project needed to meet existing DNR consent order or deficiencies listed in the utility’s latest sanitary survey report?
5. Provide a cost comparison analysis of alternatives including:
 - Alternative technologies.
 - Connecting to neighboring utilities.
 - Implementing conservation efforts.
 - Reducing non-revenue water.
6. Describe how any large water customers impact the design of the new water source including:
 - List the largest customer in the water utility and their most recent annual water usage.
 - What percentage of the utility’s total water usage does this customer represent?
 - Does this customer’s usage significantly impact the proposed capacity of the new water treatment plant?
 - Does this customer plan to drill their own well or significantly reduce their usage in the next 5 to 10 years?
 - Do they plan to expand their water usage in the next 5 to 10 years?
 - Do they plan to implement any water conservation programs?
 - Describe how any large industrial customer will either pay a share of the new construction or guarantee water purchases over life of loan.
 - Is there a city ordinance in place to prevent large customers from drilling their own wells and disconnecting from the utility’s water system?