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| **Project Name:** |  | **Date:** |  |
| **Engineer Name:** |  | **AK P.E. License No.:** |  |
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| Use of the guide is required for the construction of new or the modification of existing storage systems. Storage includes, but is not limited to, water storage tanks, wet wells, and clear wells, etc., used for storage capacity and pressure tanks.  **Note:** When completing this checklist, please answer the question and also include where in the submittal detailed information is found for each submittal requirement. Please be as specific as possible (specify document name, page number, section number, paragraph, etc.). This will accelerate the review process. | | | |

| **Submittal Requirements** | ***Regulatory Reference*** |
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| 1. **Storage Drawings and Specifications:** Do the drawings and specifications for construction of the storage system include details for baffling and inlet and outlet piping? | *18 AAC 80.205(a)(2)* |
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| 1. **Interior Coating Curing:** What measures will be used to prevent potential taste and odor problems associated with elevated VOCs resulting from inadequate curing? This issue can be more pronounced when tanks hold water for long detention times. | *18 AAC 80.030(b)* |
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| 1. **Compressed Air:** If compressed air is proposed to pressurize tanks, what information is provided to prove source air quality will not add contaminants to the water? | *18 AAC 80.205(b)(8)* |
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| 1. **Safe Access:** How does the design provide safe access for operation, maintenance, and inspection such as ladder cages and railings around hatches? | *18 AAC 80.205(b)(9)* |
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| 1. **Vent and Overflow Screens:** Is a drawing provided showing that vents and overflow lines are screened and down-turned? | *18 AAC 80.025* |
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| 1. **Overflow Air Gap:** Does the drawing sheet show that the tank overflow discharge has an air gap of at least two overflow discharge pipe diameters above the surrounding area or discharge point? | *18 AAC 80.025* |
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| 1. **Tank Safety:** What design elements mitigate the potential for erosion and other factors that may put the tank foundation at risk for failure? | *18 AAC 80.025(b)(9)* |
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| 1. **Storage Disinfection:** Which specifications address disinfection of the new storage tank(s) before use? If AWWA Standard C652 is not specified, does the proposed method include adequate detail for the contractor to implement? | *18 AAC 80.010(d)(2)* |
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| 1. **Storage Capacity:** How does the engineer’s calculation demonstrate the source capacity will be adequate for instantaneous peak demand or that the proposed storage capacity is adequate? | *18 AAC 80.205(a)(4)* |
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| 1. **Raw Water Tank Maintenance:** If a raw water tank(s) is proposed, did the engineer consider staff time and materials for tank cleaning in the maintenance costs analysis? Raw water storage tanks may require frequent cleaning. The O&M manual will need to contain information on frequency and method of storage tank cleaning needed to control biological growth. | *18 AAC 80.205(b)(9)* |
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| 1. **Piping:** Has piping within and connecting the storage tank been addressed with respect to materials of construction, separation distances, and commissioning? If piping addition or changes connecting the storage tank are extensive, is the information in the piped distribution checklist included (Checklist No. 5.0) as appropriate for the piping? | *18 AAC 80.205* |
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| 1. **CT Tanks:** For any internal modifications to an existing CT tank, even if modifications to the internal piping are not planned or are temporary, the engineer will be required to submit documentation, including a photograph of the tank’s internal piping after construction, showing the piping configuration has not changed. For new CT tanks or modifications to internal piping configuration of existing CT tanks, has the engineer proposed a baffle factor (BF) and a tracer study to verify the proposed BF? | *18 AAC 80.635* |
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| 1. **Existing Interior Coating:** When was the interior of the tank last coated? | *18 AAC 80.030(b)*  *18 AAC 80.205(b)(9)* |
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