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| **Project Name:** |  | **Date:** |  |
| **Engineer Name:** |  | **AK P.E. License No.:** |  |
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| This checklist is required for the construction of a new or modification of an existing treatment system that includes point of use (POU) or point of entry (POE) treatment devices to achieve compliance with an MCL.  Note: POU treatment units may only be used on a temporary basis or if required by the Department as a condition of granting a variance or an exemption [18 AAC 80.365(b) or (c)]. POU treatment devices should not be used to treat for certain contaminants, such as radioactive contaminants and most volatile organic contaminants (VOCs), requiring protection against inhalation of or contact exposure to these contaminants at untreated taps. POU treatment units may only be used if required by the Department as a condition of granting a variance [18 AAC 80.365(b)(1)].  **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. **Variance or Exemption Application:** Have a completed variance or exemption application and the correct plan review fee payment been included? Assistance determining the fee may be obtained by downloading a blank invoice from DEC’s website at <http://dec.alaska.gov/media/10877/plan-review-invoice.pdf> or by contacting the DEC office that will be receiving the submittal. If the plan review fee is received with the submittal and the fee calculation is incorrect, the check will be returned to the payer or be shredded per the payer’s preference. If the applicant has requested that, upon receipt of the submittal, the Department calculate the fee and send or email an invoice for payment, the submittal must include the contact information for the person, agency, or company that will be responsible for the fee payment, including their name, mailing address, telephone number, and email address. This may necessitate prior arrangement with the office receiving the submittal. A plan submittal will not be reviewed until payment is received. | *18 AAC 80.1910(e)*  *18 AAC 80.370*  *18 AAC 80.371*  *18 AAC 80.375* |
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| 1. **Engineering Design Review:** Does the sealed engineering design review of treatment device include plans, a certification of performance, and field testing results for the treatment device? This should include the make, model, manufacturer specifications, and an evaluation of its suitability for this purpose including objective and verifiable third‑party data to support performance claims of the manufacturer. This may be in the form of verification the device is certified by an ANSI accredited laboratory to conform to ANSI/NSF Standard 53 for removal of the contaminant of interest. | *18 AAC 80.010(b)(14)*  *18 AAC 80.225(c)(18)*  *18 AAC 80.360(b)*  *18 AAC 80.365(f)(2)* |
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| 1. **Raw Water Quality:** Are laboratory analyses results of untreated water included for the contaminant(s) in question? The results must reflect year-round changes in raw water quality. Which contaminants have the potential to interfere with water treatment and how will the system correct for potential interference? | *18 AAC 80.200(f)*  *18 AAC 80.300(a)*  *18 AAC 80.310(b)* |
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| 1. **Breakthrough:** What information is included about the breakthrough curve characteristics (time to breakthrough, steepness of breakthrough curve) for the proposed POU or POE device taking into consideration the on-site water quality characteristics, and a discussion of the measures recommended to prevent operation of the units past the point where the maximum contaminant level (MCL) may be exceeded? | *18 AAC 80.205(b)(9)* |
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| 1. **Heterotrophic Bacteria:** For water treated with activated carbon, document the design and application of the treatment device addressing the potential for increasing concentrations of heterotrophic bacteria. | *CFR 141.100 (d)(2)*  *18 AAC 80.360(b)*  *18 AAC 80.365(g)(2)*  *18 AAC 80.360(e)* |
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| 1. **O&M Manual:** Does the submittal include a draft operations and maintenance manual? The manual should include physical measurements and observations such as total flow treated, the condition of the treatment device, and that the treatment device will be maintained by a manufacturer authorized or certified representative according to the manufacturer’s specifications. The manual should include the maintenance schedule, identify the person or contractor that will perform the work, and detail the record keeping method to be used. | *18 AAC 80.360 (d)* |
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| 1. **Alarms:** Will the units have audible or visual alarms to notify customers of operational problems? | *18 AAC 80.205 (b)(9)* |
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| 1. **Monitoring Plan/Compliance Strategy Plan:** Does the submittal include a DEC approved monitoring plan? If not, document that the owner has contacted the DEC compliance specialist serving the region of the public water system (PWS) to determine the monitoring plan for the system utilizing POU or POE treatment. The monitoring plan should include sampling protocol, water analyses, sample site location, and monitoring frequency required. The compliance strategy plan must be signed by the PWS owner or authorized administrator and indicate that all POU and POE treatment units are controlled and maintained by the PWS to ensure proper operation and maintenance of the devices and compliance with maximum contaminant levels (MCLs). | *18 AAC 80.300*  *18 AAC 80.360(c)*  *18 AAC 80.360(d)*  *18 AAC 80.360(e)*  *18 AAC 80.365(f)*  *18 AAC 80.365(g)(1)* |
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| 1. **Project Location:** Is property location information (i.e. legal description) provided where each POU and POE device will be installed? Are the locations of all water taps with the potential to serve the treated drinking water identified on a drawing? | *18 AAC 80.205(b)(9)*  *18 AAC 80.365* |
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| 1. **Customer Notification:** How will the PWS customers be informed of the contaminant of interest, directed to obtain drinking water only from taps where POU devices are installed, and provided instructions and contact information for responding to POU alarms? The emergency contact information should be on each treatment device. | *18 AAC 80.360(f)* |
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| 1. **Access Agreement:** Does the submittal include a copy of the access and maintenance agreement for all residents, lease holders, renters, and relevant non‑transient users of the PWS? The agreement must be signed by 100% of the customers connected to the PWS for approval of this treatment method. | *CFR 141.100(e)* |
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| 1. **Customer Rights:** If a POE treatment device is proposed, has the owner provided assurance the rights of the public water system's customer are conveyed with the title upon sale of the building? | *18 AAC 80.360(f)*  *CFR 141.100(e)* |
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