Chapter 24. New Supplemental Treatment Systems

A. Purpose

This Chapter provides the minimum criteria for new Supplemental Treatment Systems proposed for use in Placer County. Inability to meet the requirements of this Chapter shall result in denial of the use of the supplemental treatment system. Experimental Systems, as originally designed, reviewed and approved prior to the adoption of this Ordinance, shall be subject to their original conditions of approval. However modification to the originally approved design of the experimental system must meet the requirements of this Chapter.

B. Minimum Criteria for Supplemental Treatment Systems

1. Proposed Supplemental Treatment Systems must be approved by the Division prior to permit issuance, and shall meet the following requirements:
   a. Certification by NSF/ANSI as meeting NSF/ANSI Standard 40-1999
   b. Demonstration and verification of field performance that meets the definition of supplemental treatment as provided in the Onsite Sewage Ordinance. Demonstration and verification shall be shown by meeting one of the following criteria:
      i. Completing NSF/ANSI Standard 360 Field Performance Verification, or
      ii. Demonstration of the product performance through field testing using generally accepted scientific methods and conducted by a University or other third party institution which has published results in refereed journal articles which have a high degree of scientific rigor; and verification of actual product performance within US States or local jurisdictions. Verification shall include regulatory datasets that may be primarily composed of compliance data samples. The data must include BOD, TSS, and FC. This long term data set shall be a minimum twenty-four (24) months. Data sets must contain at least eight (8) samples each at eighteen (18) or more systems. The data shall be summarized in table format and shall include a statistical analysis of the collected data conducted by a qualified statistician showing product performance with a 95% confidence.
   c. The treatment technology shall utilize a subsurface system of disposal trenches or subsurface drip line for effluent dispersal.

C. Minimum Application Requirements

1. Applications shall be submitted with required forms and fees. All submittals shall be in hard copy form and shall be made in one complete packet. Emailed and other electronic submittals will not be accepted, unless specifically requested by the Division.

2. Completed New Treatment Technology Application, which shall include:
    a. Manufacturer's name, mailing address, street address and phone number;
    b. Contact individual's name, mailing address, street address and phone number. The contact individual must be vested with the authority to represent the manufacturer in this capacity;
    c. Proprietary treatment product name, including specific brand;
    d. A description of the function of the product including any known limitation of the product, including expected life span of the system;
    e. Product description and technical information, including process flow drawings and schematics; materials and characteristics; component design specifications; design capacity, volumes and flow assumptions and calculations; components; dimensional drawings and photos;
    f. Siting and installation requirements;
    g. Detailed description, procedure and schedule of routine service and system maintenance events;
    h. Estimated operational costs for the first five years of the treatment component's life. This shall include both estimated annual electricity costs and routine maintenance costs, including replacement parts;
    i. Identification of information subject to protection from disclosure of trade secrets;
    j. Copies of product brochures and manuals: Sales and Promotional: Design Installation; Operation & Maintenance Requirements; and Homeowner Instructions;
    k. The most recently available product test protocol and results report;
    l. Verification of product performance as Part B above; and in the definition of supplemental treatment found in the Onsite Sewage Ordinance.
    m. Information showing the jurisdictions within the United States that have approved the use of this product. The conditions of approval, OM&M requirements and contact names, phone numbers, and email of each jurisdiction shall be provided; and
    n. Application fee. The applicant will be assessed additional fees if the time spent by the Division in the review process exceeds the number of hours allotted in the initial application fee. Additional staff time will be billed at the current hourly rate. Review of the application may be suspended for lack of payment.
3. The following information will not be considered part of the review packet:
    a. Vendor conducted datasets will not be considered adequate evidence of performance
    b. Anecdotal evidence, web site links, reference lists to other documents that must be researched further, commentaries, references to other supporting documents, etc. shall not be allowed, will not be reviewed and will not be considered part of the review packet; or
    c. Supplemental information received through email or other electronic form will not be considered part of the review packet.

D. Review Process

1. Upon receipt of the application and required fee, staff will verify the application is complete. Further review will not continue until the application has been found to be complete. Incomplete packets may be refused and balance of fees returned.
2. Staff will review the application to ensure all proposed system requirements have been met, in addition to compatibility with the interests of public health and protection of waters.

F. Quality Assurance

1. A supplemental treatment system may be considered to "fail" when the Division determines it cannot reliably perform the conveyance, treatment, and/or disposal function for which it was designed and approved. Causative problems with the treatment system may include mechanical malfunction, structural problems, reliability issues, maintenance deficiencies, or non-compliance with the effluent specifications contained in the conditions of approval. If an individual treatment system "fails" as described above, the Division will consider the homeowner to be the responsible party for system repair or replacement. However, nothing herein prevents the homeowner from seeking recourse through service agreements and warrantees with the manufacturer, distributor, designer, or contractor.
2. Noncompliance with the conditions of approval, or system failures are grounds for reevaluation of the treatment system for continued use in Placer County. The Division may also use information from other jurisdictions and sources regarding system performance to reevaluate continued approval of the treatment system in Placer County.