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### **1.4.2.2 Extended Treatment Package System Approvals**

Manufacturers seeking approval of an Extended Treatment Package System (ETPS) technology shall submit product information to the DEQ On-Site Wastewater Coordinator for review by DEQ. In addition to product information (i.e., engineering designs and product manuals) manufacturers seeking approval on their ETPS units for reduction of Total Suspended Solids (TSS) and Carbonaceous Biological Oxygen Demand (CBOD<sub>5</sub>) will need to submit National Sanitation Foundation (NSF)/American National Standards Institute (ANSI) Standard 40 and 360 approvals, reports, and associated data. Manufacturers also seeking approval on their ETPS units for reduction of Total Nitrogen (TN) will need to submit NSF Standard 245 approvals, reports, and associated data. Any additional third party standards evaluated for the ETPS unit will also need to be submitted including approvals, disapprovals, reports, and associated data.

DEQ will issue ETPS product approval in conjunction with associated reduction levels for TSS, CBOD<sub>5</sub>, and TN. Reduction levels will be determined through statistical analysis of the data included in the third party standards. Third party reports average reduction values will not be accepted to establish system performance approvals. The third party data will be statistically evaluated to determine a resulting value that corresponds to the 95% upper confidence limit. The resulting value that corresponds to the 95% upper confidence limit will be used as the system's initial performance limit.

ETPS units that have not undergone third party testing and wish to be approved for reduction in TSS, CBOD<sub>5</sub> and TN must be permitted and installed under the Experimental System guidance in Section 4.9. ETPS units installed under the Experimental System guidance in an attempt to gain approval for effluent reduction levels shall follow the minimum operation, maintenance, and effluent testing procedures outlined in Section 4.10.3, and be installed in an area suitable for a standard system with no reduction in drainfield sizing or separation distance requirements. Operation, maintenance, and effluent testing requirements shall be written into the experimental system's permit.

To obtain approval for TSS, CBOD<sub>5</sub>, or TN reduction without third party data, or to lower reduction levels from initial approval for any constituent, the manufacturer of the ETPS unit or their representative must submit data from their ETPS units installed in Idaho. Data from other states will not be considered under this approval process. Any data submitted must be specific to a particular ETPS make and model. Data submission must include information on 30 installations with a minimum of 3 full years of operational data on each system. All maintenance and effluent testing records, as described in Section 4.10.3, obtained over this period must be submitted for review. For adjustment in reduction levels of effluent constituents to be approved the data must show that 90% of the installed units have successfully maintained effluent reduction levels at or below the desired reduction approval level during the entire testing period.

Prior to product approval manufacturers must have an Operation and Maintenance Entity setup for their ETPS units as described in section 4.2 of the TGM prior to any non-experimental permits being issued for system installation. The Operation and Maintenance Entity must be capable of fulfilling the requirements of section 4.2 and 4.10 of the TGM prior to product approval.