



**CABINET FOR HEALTH AND FAMILY SERVICES
DEPARTMENT FOR PUBLIC HEALTH**

Andy Beshear
Governor

Division of Public Health Protection and Safety
Environmental Management Branch
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Eric C. Friedlander
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Commissioner

May 15, 2020

Scott Samueison
Fuji Clean USA, LLC
41-2 Greenwood Road
Brunswick, ME 04011 USA

Mr. Samuelson,

Fuji Clean USA, LLC has submitted a request for approval to use the Fuji Clean CE-Series model numbers CE-5, CE-7 and CE-10 in the Commonwealth of Kentucky. The request including NSF testing data, reports, design standards, other relevant papers and information have been reviewed. The Fuji Clean CE-5, 7, and 10 in all models are approved for use in the Commonwealth of Kentucky as an Aerobic Treatment Unit based on the Authority from 902 KAR 10:081 section 3(3) c. with the following requirements. The approval number shall be stenciled on the system's outlet side and shall read:

Fuji Clean CE-Series Model Number/Gallons Per Day/Approval Number

CE-5	500	GPD	KY-F-04-0-0218-S
CE-7	700	GPD	KY-F-07-0-0218-S
CE-10	1000	GPD	KY-F-10-0-0218-S

Description

The Fuji Clean CE-Series is a combined-process wastewater treatment system. "Combined process" refers to the use elements generally described as "fixed media" and "suspended growth" wastewater treatment. Another term is an Integrated Fixed-Film Activated Sludge (IFAS) process. Fixed media designs typically apply wastewater to a medium, on which the microbes attach themselves. Suspended growth refers to a technique of suspending microbes in a tank of water using aeration. Models consist of a single tank divided into three chambers, some containing proprietary media, to treat the wastewater. The design is a variation of the Modified Ludzak-Ettinger (MLE) process. The design incorporates a diaphragm compressor to supply oxygen and energize an airlift pump to recirculate treated wastewater back to the influent chamber. A separate airlift pump regulates effluent discharge. The integrated nature of the design precludes the need for additional upstream tankage, which is common for many onsite wastewater treatment products.



General

1. Pretreatment units, lateral lines, distribution devices and any other component of the Fuji Clean CE-Series shall meet the minimum requirements of the Kentucky On-site Sewage Disposal Systems Regulation.
2. Fuji Clean USA, LLC shall provide a minimum two-year warranty to the owner from the date of system approval covering all parts and materials of the Fuji Clean CE-Series and shall be transferable to any subsequent owner during the warranty period.
3. Fuji Clean USA, LLC shall provide a minimum two-year service policy to the owner from the date of final system approval and shall be included in the original purchase price. The policy shall be transferable to any subsequent owner during the two-year period.
4. Each County or District in which the Fuji Clean CE-Series is used must have in place an Operation and Maintenance Ordinance that has been reviewed and approved by the Department for Public Health.
5. Fuji Clean CE-Series systems installed and operated to produce an effluent treated to a secondary level of treatment as follows:
 - a. Less than 30mg/L BOD (5-day Biochemical Oxygen Demand)
 - b. Less than 30mg/L TSS (Total Suspended Solids)

Training Requirements for Certified Installers, Inspectors, and Operators

1. The Fuji Clean CE-Series must be installed by a Kentucky certified installer trained and certified by Fuji Clean USA.
2. Any County or District where Fuji Clean CE-Series is used must have a certified inspector trained by Fuji Clean USA.
3. Training shall include but not limited to the following:
 - a. How the system works
 - b. Sizing design
 - c. Construction and installation procedures
 - d. Inspection procedures
 - e. Operation and Maintenance procedures
 - f. Trouble-shooting procedures
 - g. Warranty information
4. All certification must be issued by Fuji Clean USA in writing and provided to the requesting individual upon successful completion of the training.

Lateral Field Requirements

1. All lateral field requirements for the Fuji Clean CE-Series must meet the requirements of the Kentucky On-site Sewage Disposal Systems Regulation with the following exceptions:
 - a. Lateral Field may be given up to a 30% reduction in sizing.
 - b. If no reduction is requested the Fuji Clean CE-Series shall not be required to fulfill the training requirements set forth in the training requirements for installers, inspectors, and operators section of this letter. This is due to the system not being experimental when used in combination with a full sized lateral field.

Installation Requirements

1. All system components (other than the proprietary components of Fuji Clean CE-Series) must be approved components and installed in compliance with the Kentucky On-site Sewage Disposal Systems Regulation.
2. The components proprietary to the Fuji Clean CE-Series must be installed according to instructions from Fuji Clean USA.
3. Lateral fields shall be installed in compliance with the Kentucky On-site Sewage Disposal Systems Regulation with the exceptions listed in the Lateral Field Requirements section of this letter.

Inspections

1. System installation inspections shall be conducted by the Local Health Department inspector trained by Fuji Clean USA.
2. All electrical components and connections must comply with the National Electric Code.

Permits

1. Proposed system plans, a notarized experimental system affidavit, a notarized Declaration of Covenants, conditions and restrictions and proof of its attachment to the property deed must be submitted to the local health department and approved before the issuance of an installation permit.
2. Any other documentation required by the local operation and maintenance ordinance must be submitted prior to permit issuance.
3. The first two Fuji Clean USA systems installed in each County or District must be reviewed and approved by the Kentucky Department for Public Health prior to an installation permit being issued.
4. Any Fuji Clean CE-Series proposed for use without a reduction in lateral field shall not be bound by the experimental aspects of this approval.

Please feel free to contact me with any further questions you may have. I can be reached at 270 783 0614.

Sincerely,



Mr. Chris Edwards, R.S.
Environmental Health Program Evaluator
Department for Public Health
Environmental Management Branch
Western Kentucky Region

Cc: Mr. Ken Spach, Environmental Management Branch Manager