

STATE OF ARKANSAS
DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY

Regulation No. 3, As Amended 9/83

A Regulation Governing the Licensing of Operators of Wastewater Treatment Plants and the classification of wastewater treatment plants, and otherwise to implement Act 211 of 1971 (Ark. Stats., Sec. 82-1983, et. seq.).

PART I - LICENSING

Section 1. GENERAL

This regulation is promulgated pursuant to the authority contained in Act 211 of the Acts of Arkansas for 1971. It is applicable to all Arkansas Wastewater Operators and wastewater facilities.

Section 2. THE LICENSE COMMITTEE

The License Committee is charged with advising and assisting the Commission on matters dealing with the licensing program and is delineated the following responsibilities:

- a. Examine the qualifications of applicants for certification, conduct examinations, and issue license
- b. Collect and deposit licensing fees
- c. Adjust, budget and dispense license fees for support of the program
- d. Issue administrative guidelines for the management and operation of the licensing program
- e. Advise the Commission on wastewater plant classification
- f. Report to the Commission any irregularities encountered in the management of the wastewater licensing program.

Section 3. LICENSING (GENERAL)

- a. Personal
 - Good physical and mental health
 - Good character and morals
- b. Education
 - High school graduate, GED or training equivalent
- c. Training Requirements

APPRENTICE

A new operator without any experience, must be qualified and take the Class I examination for license within one (1) year.

CLASS ONE

Must satisfactorily complete and present evidence of forty (40) hours of approved training. Additionally, must have one (1) year experience in wastewater or related acceptable field. Also must take and pass examination for Class I license. Training will normally be accomplished by taking the introductory wastewater course offered by the Arkansas Environmental Academy, SAU Tech, Camden. Other approved training such as correspondence courses, seminars and workshops will count for qualification on an hour for hour basis.

CLASS TWO

Must satisfactorily complete and present evidence of two (2) years of experience in wastewater plant operation or an acceptable related field. In addition, candidate must have eighty (80) accumulated hours of approved training and take and pass examination for Class II license. Training will normally be accomplished by taking the intermediate wastewater course offered by the Arkansas Environmental Academy, SAU Tech, Camden. Other approved training such as correspondence courses, seminars and workshops will count towards qualification on an hour for hour basis.

SPECIAL (S) CLASS I AND II OPERATORS:

This Special (S) classification may be given after regular examination (Class I and Class II) to personnel in related or supporting occupational fields that do not operate sewage plants, e.g., ADPC&E, Health Department personnel.

CLASS THREE

Must satisfactorily complete and present evidence of three (3) years of experience in wastewater plant operation or an acceptable related field. (One year experience must be in wastewater field). Applicant must have one hundred twenty (120) accumulated hours of approved training and take and pass examination for Class III license. Training can be obtained from any or all of the sources listed in Class II requirements. Additionally, applicant must have sufficient advance training to have a working knowledge of the following subjects:

- Process controls for trickling filters, activated sludge (both large and small plants) aerated, facultative and anaerobic stabilization ponds
- Sludge handling and disposal
- Hydraulics
- Safety
- Preventative maintenance and record keeping
- Management, budgeting and administration
- Collection systems
- Wastewater chemistry, microbiology and laboratory
- Disinfection
- Aerobic and anaerobic digestion
- Pumps and pumping
- Electricity.

CLASS FOUR

Must satisfactorily complete all requirements listed above for Class III. Additionally, must have at least two hundred (200) accumulated hours of training, take and pass Class IV examination and have six (6) years experience or approved related experience. Two years of the experience must have been in direct charge (IDC) of a plant or one of its major components. Applicant must also have been a licensed Class III operator for at least three years. All applicants for the Class IV license will be reviewed by the License Committee.

TECHNICAL CLASS (T)

This Technical (T) classification may be given after regular examination (Class III and IV) to personnel in related fields that do not operate sewage plants, e.g., technicians and engineers.

EXAMINATIONS

The following examinations will be offered as a minimum.

- a. Examinations will be offered at least once yearly in each of the nine wastewater districts.
- b. Examinations I through III will be offered at the site of the annual Arkansas Waterworks and Pollution Control Association held each year.
- c. The Class IV examination will be offered at the Arkansas Department of Pollution Control and Ecology the first Wednesday of March and September yearly.
- d. Positive identification is required at the time the examination is given.
- e. Oral examination may be given for Class I license only.

REQUEST FOR EXAMINATIONS

A person desiring an examination shall file an application with the Arkansas Department of Pollution Control and Ecology, 8001 National Drive, Little Rock, Arkansas 72209.

TRAINING REQUIREMENTS FOR RENEWAL

Fifteen (15) hours training from any of the following sources:

1. District meetings
2. Approved training courses
3. Seminars and workshops

License will not be renewed unless the above requirements have been met. Training hours in excess of fifteen (15) may be carried forward one year.

LICENSE RENEWAL

License are valid for one year (July 1 - June 30) and may be renewed without examinations provided training requirements as set forth herein are met. The Managers of each wastewater facility will forward to the License Committee (Executive Secretary) in June of each year, on the renewal form provided, the names of all operators employed along with training information. The one form will be accompanied by one renewal check for the total amount due, i.e. 20 operators x \$5.00 equals \$100.00. Failure to renew license by July 31 will require payment of an additional \$5.00 fee for each operator for administrative handling fee.

LAPSED LICENSE

Any operator that allows his license to expire for over one (1) year and does not comply with the above training requirements during said year will be required to take a new examination before license consideration. The Class at which the operator would be re-examined will be at the discretion of the License Committee.

REVOCAION OF LICENSE

The Commission may revoke the license of an operator, following proper notice and a hearing before the Licensing Committee, when it is found that the operator has practiced fraud or deception; that reasonable care, judgement or the application of his knowledge or ability was not used in the performance of his duties; or that the operator is incompetent, unable, or unwilling to perform his duties properly.

PART II - CLASSIFICATION OF WASTEWATER TREATMENT PLANTS

Each wastewater treatment plant shall be classified as Class I, II, III, or IV. The classification shall be based on complexity of treatment, equivalent population served, receiving stream dilution, wasteload conditions and other health hazard considerations. Additional points may be incurred by processes not covered by the following rating factors.

FACTORS FOR CLASSIFICATION

<u>FACTOR</u>	<u>RATING</u>
Equivalent population served -----	1 per 2000
Lift station(s) -----	1 per station
Variable speed pumping -----	5
Mechanical raked bar screen(s) -----	2
Communitor (grinding) -----	1
Grit removal -----	5
Primary settling and sludge removal -----	4
Stabilization pond(s) -----	8
Holding pond(s) -----	8
Aerated lagoon(s) -----	10
Trickling filter(s)	
Standard rate -----	10
High rate -----	12
Staged -----	12
Activated sludge	
Mechanical aeration -----	15
Diffused air -----	16
Pure oxygen -----	18
Rotating biological disk(s) -----	14
Oxidation ditch -----	15
Overland flow -----	10
Chemical treatment (wastewater or sludge) -----	8
Disinfection	
Chlorine -----	5
Ozone -----	7
UVL -----	5

Factors For Classification Continued

<u>FACTOR</u>	<u>RATING</u>
Sand or multimedia filters -----	10
Receiving stream dilution	
Good (greater than 10:1) -----	2
Fair (2:1 to 10:1) -----	5
Poor (less than 2:1) -----	10
Sludge treatment	
Gravity thickener(s) -----	5
Centrifuge(s) -----	8
Other thickening -----	5
Anaerobic digester(s) -----	10
Methane recovery -----	2
Sludge heating -----	3
Aerobic digester(s) -----	6
Vacuum or coil filter(s) -----	8
DAF unit(s) -----	10
High pressure (Zempro) -----	12
Incinerators -----	8
Sludge disposal	
Landfill with heavy equipment -----	2
Land spraying -----	4
Drying beds -----	4
Sludge lagoon(s) -----	6

CLASSIFICATION

Class I -----	1-25
Class II -----	26-49
Class III -----	50-74
Class IV -----	75-over

MANNING REQUIREMENTS

- a. All operating personnel that could affect plant performance must be licensed.
- b. All plants must have a licensed operator of equal or greater classification than the plant class available at all times to make operational judgement decisions.