



**LAMAR DUNN & ASSOCIATES, INC. AGAIN IS A WINNER
IN ENGINEERING EXCELLENCE COMPETITION**



Accepting the Merit Award for Engineering Excellence for West Knox Utility District is Drexel Heidel, Steve Bostic, P.E., Vice President of Lamar Dunn & Associates, Inc., Leo Peters, President of American Consulting Engineers Council, and Lamar Dunn, P.E., President of Lamar Dunn & Associates, Inc.

The Consulting Engineers of Tennessee (CET) has honored Lamar Dunn & Associates, Inc. and the West Knox Utility District with an Engineering Excellence Merit Award for a unique filtration process of wastewater. Lamar Dunn & Associates, Inc. was also a runner up for an entry in the "Consulting Services" category for a project with the Morristown Utilities (See Picture on Page 2).

West Knox Utility District selected Lamar Dunn & Associates, Inc. (LD&A) to design expanded wastewater treatment facilities to comply with an order issued by the State of Tennessee to enhance the quality of its wastewater discharge to Beaver Creek. The existing treatment facilities were in non-compliance for ammonia, total suspended solids, chlorine residual, and fecal coliform.

After reviewing the options, LD&A recommended that the discharge continue at its existing location and that Tertiary (third stage) treatment be provided. Filtration was selected as the method to enhance the quality of the effluent (discharge). Based on the parameters of conservation of hydraulic head through the filter and the potential impact to the existing treatment units of backwash water from the filter cleaning process, a unique process was selected. The particular application chosen was the first time it had been used in Tennessee.



Consulting Services runner up entry is being accepted by Steve Bostic, P.E., Vice President of Lamar Dunn & Associates, Inc., Bill Swann, General Manager of Morristown Water System, Leo Peters, President of American Consulting Engineers Council, and Lamar Dunn, P.E., President of Lamar Dunn & Associates, Inc

NEW PROJECTS

STUDENT HOUSING APARTMENT COMPLEX

Lamar Dunn & Associates, Inc. is supporting Architect Tim Dunnavant in the design of an apartment complex located near The University of Tennessee, Knoxville campus. With seventy-two units, the facilities are ideally suited for students. Lamar Dunn & Associates, Inc. is providing electrical, HVAC, plumbing, and site utilities design for the project.

CTI IS EXPANDING IN ROCKFORD

CTI, a leader in advanced medical equipment is expanding its Rockford, Tennessee facility located in the Stock Creek Industrial Park. To meet product demands CTI is adding to their patented crystal growing capacity, product assembly, and support facilities. The design/build expansion of over 30,000 square feet is expected to be completed by the end of the year. Lamar Dunn & Associates, Inc. is providing mechanical consulting services including process water, HVAC, and plumbing systems.

THUNDER WORLD IS COMING TO MARYVILLE

Currently under design is "Thunder World", to be located just off Highway 321. The planned indoor/outdoor recreational facility will be complete with a bowling alley, restaurant, arcade, go-cart tracks, meeting rooms and more. Lamar Dunn & Associates, Inc. is providing mechanical, electrical, and structural design services for the facility of nearly 30,000 square feet.

EXTENDED STAY HOTELS TO DEVELOP IN KNOXVILLE

Recently, Extended Stay Hotels retained Lamar Dunn & Associates, Inc. to provide civil and environmental consulting services for planned facilities in Knoxville, Tennessee. Currently providing a Phase I Environmental Assessment, we are also being tasked with site and utilities design for a location convenient to downtown Knoxville, the Western Avenue Business Area, and The University of Tennessee.

REGULATORY UPDATE

EPA PROPOSED LONG TERM 1 ENHANCED SURFACE WATER TREATMENT AND FILTER BACKWASH RULE (LT1FBR)

The proposed Long Term 1 (LT1) provisions impact surface water and groundwater under the direct influence of surface water (GWUDI) systems serving less than 10,000 people. The intent of LT1 provisions is to maintain microbial protection while complying with the new Disinfectant/Disinfection By-Product (D/DBPR) standards. Meeting BOTH the LT1 provisions and the new D/DBP standards will be especially challenging to maintain simultaneous compliance for systems serving less than 10,000 people. The proposed LT1 provisions include:

- A 99% Cryptosporidium removal requirement;
- Strengthened combined filter effluent turbidity performance standards and new individual filter provisions;
- Enhanced microbial protection;
- Inclusion of Cryptosporidium in the definition of GWUDI and in the watershed control requirements for unfiltered systems; and

- Requirements for covers on new finished water reservoirs.

The proposed Filter Backwash Rule (FBR) provisions impact all conventional and direct filtration systems which recycle filter backwash and use of surface water or GWUDI. These provisions include:

- A requirement for the introduction of recycle flows;
- A requirement for certain systems to perform assessments to address and correct high risk recycle operations; and
- A requirement for direct filtration systems to provide information on their current recycle practice.

As with all types of regulations effecting our clients, Lamar Dunn & Associates, Inc. will continue to track the status of this regulatory issue.

NEW EMPLOYEES ARE ADDED TO THE LD&A FAMILY

John Thornton, P.E.

A graduate of Tennessee Technological University, Mr. Thornton has over 25 years of experience in electrical and instrumentation systems. He has recently been providing design of automated control systems for an automotive manufacturer and instrumentation design for a flue gas desulfurization project.

Mark Dunn

Mr. Dunn worked for the Knoxville Utilities Board for many years as a surveyor and as an inspector. He later became self-employed as a carpenter. He is presently serving as a Resident Project Representative for Lamar Dunn & Associates, Inc. for the Mooresburg State Route 31 Waterline Extension Project.

Glenn Beason

Mr. Beason has recently retired from the Air National Guard as a Security Officer. He also has many years of experience in residential and commercial construction. He has joined Lamar Dunn & Associates, Inc. as a Resident Project Representative.

Bradley Smith

Mr. Smith is a recent graduate from ITT Technical School. He graduated November 24, 1999 and has an Associates Degree in Computer Aided Drafting. His position at Lamar Dunn & Associates, Inc. is CAD Operator for our Drafting Department.

AREA CODE CHANGE

Effective April 1, 2000, the area code for Lamar Dunn & Associates, Inc. changed from 423 to 865 (VOL). Since the University of Tennessee "Volunteers" Main Campus is in Knoxville, our new area code is representative of the "Big Orange" Volunteers.

CROSSVILLE AWARDED \$7.5 MILLION STATE REVOLVING FUND (SRF) LOAN

The City of Crossville has recently bid a new 3.5 MGD water treatment plant designed by Lamar Dunn & Associates, Inc. The project is to be funded by a SRF loan with a low interest rate. Lamar Dunn & Associates, Inc. assisted the City with the funding application. The new water treatment plant will replace a 2.0 MGD plant which was constructed in 1938.

WE ARE LAMAR DUNN & ASSOCIATES, INC.

Engineering

Water/Wastewater
Sanitary
Civil
Structural/Architectural
Mechanical
Instrumentation
Process
HVAC&R
Electrical

Environmental

Permitting
Stormwater
Assessments
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Air Pollution
Industrial Hygiene
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Operations
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