

ACEC Tennessee

American Council of Engineering Companies of Tennessee

WASTEWATER PLANS REVIEW PROCEDURES



By: George Garden,
PE, BCCE, Tennessee
Department of
Environment and
Conservation, Chief
Engineer, Division of Water
Resources

The existing Rules (specifically Chapter 0400-40-02) address the Division of Water Resources (DWR) approval process for wastewater construction documents. The Rules envision first a preliminary discussion during which the general plan for the project is discussed and a consensus on issues like permitting, alternative analysis and future submission requirements are discussed and outlined.

The second phase of the review process includes the preliminary engineering submission of the engineering report and preliminary plans. If there is a change from current practice, this is it. Of singular importance is this engineering report (ER); it is the basis of design for the project not a preliminary engineering report (PER) with alternative analyses, required by funding agencies or in the permitting process, with life cycle costs comparisons. In this ER the design agent should show "due diligence" considering the nature and volumes of the influent and the selection of unit processes and equipment that meet or justify departure from the Design Criteria. It should provide TDEC and the Owner with a summary of what the project will cost and what it will do (and not do) before the designer proceeds to produce final construction documents.

The ER submission should be accompanied with preliminary plans; these sheets define the process and indicate the arrangement of equipment, the site plan and the plant/building footprint. They are the focus of the plan

review and will not include detailed structural, architectural, mechanical, etc. drawings.

The final stage in the DWR review considers final plans, contract drawings and specifications, the approval of which is required by law prior to construction. This review should only constitute a check to see if the objectives in the previous submission have been met and that no safety or maintainability aspects have been neglected. Specifications will be reviewed to see if the overall procurement preserve the design agents' vision and ultimate responsibility for the project.

All treatment plants and any projects with state or federal funding must travel this route through approval. The process for small projects may be truncated to the preliminary discussion via email and to the final submissions; however, the ER will be required to demonstrate compliance with the Design Criteria on all projects. Between those two groups of projects, the Division hopes that Owners and Engineers will see the advantage of the preliminary review and will exercise the option to use the prescribed route. Revisions to Chapter 1 in the Design Criteria will (1) specify the preliminary discussion options and provide agendas and (2) outline submission requirements for preliminary and final phase submissions. Requirements will be broken out by project types (treatment, pumping and force mains, gravity collection, sewer rehabilitation, land application and reclaimed water reuse.) The emphasis on the preliminary drawings and engineering report early in the design process should reduce the impact of last minute changes, focus reviewers on process and due diligence issues, and avoid delays in moving to the bid process.

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MAY
30

Offices Closed for
Memorial Day Holiday

JUNE
3 - 4

ACEC Board Retreat

JULY
4

Offices Closed for
Independence Day

SEPTEMBER
14 - 16

ACEC, TSPE, ASCE Fall
Conference,
Music City Center

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2016 LEADERSHIP PE CLASS

The 2016 Leadership PE Class kicked off its year this past January in Nashville hosted by the State of TN Human Resources Department with visits to the TN Bureau of Investigation and the TN Department of Transportation. In February, the U S Army Corps of Engineers, Nashville District welcomed the class to Chattanooga at the TVA downtown facility which included a tour of the Chickamauga Dam Facility. The March session returned to Nashville at the TN Department of Human Resources and focused on government advocacy plus a Conflict Management session. Mid-April, found the class at the TN Valley Authority in Knoxville where they toured

TVA's Bull Run facility and were inspired by Scott Turnbow's Motivational presentation.

The final session of the year will be in May and hosted by the U. S. Army Corps of Engineers at the Clifford Davis/Odell Horton Federal Building and will include a tour of the Ensley Engineer Yard. The class will stay at the world famous Peabody Hotel!

The 2016 class year will end with graduation at the 2016 TN Engineers' Conference (Sept 14-16) at the Music City Center.



2016 Leadership PE Class at the TDOT Region 3 Offices. Pictured - 1st Row (L to R) Commissioner Bob Martineau, TN Dept Environment & Conservation (TDEC); Greg Brubaker, K S Ware & Assoc; Meredith Cebelak, Gresham, Smith and Partners; Jeff Holiman, ARCADIS; Corey Morgan, US Army Corps of Engineers (USACE); David Gibbs, S&ME, Inc; Ken Matsushita, National Nuclear Security Administration; Marilyn Coffey, K S Ware; Kasey Anderson, ACEC-TSPE; Chance Sudberry & Charlie Hamblin, Ross Bryan Associates; Commissioner Rebecca Hunter, TN Dept of Human Resources; and Commissioner John Schroer, TN Dept of Transportation (TDOT).

2nd Row - Bob Higgins, Barge Waggoner, Sumner & Cannon; Trish Holliday, Asst. Commissioner TN Dept of Human Resources; Claire Sichko, ARCADIS; Jon Korneliussen, USACE; Geoff Pope, EnSafe Inc; Adam Davidson, Volkert; Jordan Richardson, Robert Campbell & Assoc; Eric King, Barge Waggoner Sumner & Cannon; Jamie Fitzpatrick, TDOT; and Lee Walter, ARCADIS;

3rd Row - Aaron Nottis, TN Valley Authority; Brad Harris, TDEC; Jay Norris, TDOT; Curt Williams, I C Thomasson Assoc; and David Carter, A2H, Inc.

MEMBER NEWS

Heath Elder, PE, joins Stantec as a senior engineer in their Nashville, Tennessee office. Elder brings more than 15 years of experience providing civil engineering design services.

Palmer Engineering is pleased to announce **Brian Lee**, PE as a new Vice President. Environmental;

WELCOME NEW MEMBER:

HMB Professional Engineers, Inc.

2 International Plaza, Ste. 205
Nashville, TN 37217

Tel: 615-361-4345

Email: wmattingly@hmbpe.com

EMPLOYEES: 4

PRINCIPALS: Wes Mattingly, PE,
Regional Office Manager

DISCIPLINES: Civil General;
Civil-Structural; Civil-
Transportation; Environmental;
Land Development; Planning;
Surveying/GIS Mapping; and
Water/Wastewater

DESCRIPTION: Civil Engineering
including transportation,
surveying, environmental, water
and wastewater, remediation,
traffic, planning, and stream
restoration.

FROM THE PRESIDENT

THE MONTHLY UPDATE



By: John Kenny, PE
President of ACEC of Tennessee

As the curtain falls on this year's legislative session, ACEC of Tennessee has had a more active year than any in a long time. Many thanks to our Executive Director Kasey Anderson on a job extremely well done in her first session in charge. Our focus is beginning to shift to planning for next year. I'm excited about the new Board and different perspectives. Our efforts this year in sustainability should also create a smoother transition and keep our committees focused on the tremendous benefits they provide our membership.

Federal Government Advocacy:

- By the time this makes print, the 2016 ACEC Annual Convention in Washington, D.C. will have concluded. Visits with Congress will have focused on four key issues to our industry; 1) Opposing proposed Labor Regulations affecting mandatory thresholds for hourly/salaried employees, 2) Funding for Aviation and Airports, 3) Funding for Energy Resources, and 4) continuing to stay focused on long term transportation funding solutions with the recent FAST Act only addressing 5 years of commitment.
- The U.S. Trade and Development Agency (USTDA) and the Cuban Embassy briefed ACEC's International Committee on market opportunities and programs.
- ACEC-endorsed legislation was passed out of the Senate's Homeland Security and Government Affairs Committee which

will limit both one-phase design-build and reverse-auctions in design-build projects in federal civil construction.

- Government cybersecurity experts from the Senate and federal agencies outlined new voluntary and regulatory initiatives underway to bolster cybersecurity for engineering services at the Environment & Energy Committee winter meeting.
 - Representatives Earl Blumenauer (D-OR), John Duncan (R-TN), and Richard Hanna (R-NY) reintroduced ACEC-backed legislation to create a dedicated trust fund for water projects, while Senators Robert Menendez (D-NJ) and Cory Booker (D-NJ) introduced legislation to give states greater flexibility to raise funds in the bond market to address water needs.
 - ACEC/PAC hosted an industry event organized by ACEC/PA for U.S. House Transportation and Infrastructure Committee Chairman Bill Shuster (R-PA), and co-hosted events for U.S. Reps Mike Bost (R-IL), Ryan Costello (R-PA), Elijah Cummings (D-MD), Adam Kinzinger (R-IL), Martha Roby (R-AL), Dutch Ruppersberger (D-MD), John Katko (R-NY) and Michelle Lujan Grisham (D-NM).
- State Government Advocacy:
- ACEC of Tennessee representatives Mickey Sullivan, PE (Gresham, Smith & Partners), Kasey Anderson and I have continued dialogue with AIA representatives in multiple sessions with the Office of the State Architect and State Procurement Agencies in an attempt to work out provisions for a revised Designer Contract which addresses the issues of the Additional Services and Prompt Payment Legislation (SB1672/HB1726). A meeting at the request of the Constitutional Officers is scheduled ahead of the Contract's introduction to the State Building Commission in May.

TENNESSEE ENGINEERING FOUNDATION 2016 SCHOLARSHIPS AWARDED

Claire Barnett, PE, President of the Tennessee Engineering Foundation, announced the 2016 Tennessee Engineering Foundation (TEF) scholarships will be awarded to four students. Rebecca Kimberlin from Englewood, TN, who is a junior in Mechanical engineering at the University of Tennessee at Knoxville, won the \$4,000 Dorothy and Arthur Crouch Memorial Scholarship. TEF scholarships of \$3,500 each were awarded to: Lucas Bromenschenkel from Gardnerville, NV, who is a sophomore in Mechanical engineering at Lipscomb University in Nashville, TN; Kelli Grissom from Chuckey, TN, who is a junior in Civil engineering at the University of Tennessee at Knoxville; and Jacqueline Payne from Kingsport, TN, who is a junior in Mechanical engineering at Lipscomb University.

The TEF was established by a group of engineering organizations to advance and support the engineering profession in the State of Tennessee. TEF raises funds for scholarships and other kindergarten -12th grade science, technology, engineering and math (STEM) education support activities such as MATHCOUNTS. The TEF is headquartered at the Tennessee Engineering Center, 800 Fort Negley Blvd., Nashville, TN, 37203.

Information and application for the 2017 Scholarships will be posted Fall of 2016.



Rebecca Kimberlin



Lucas Bromenschenkel



Kelli Grissom



Jacqueline Payne

MAY 2016

INSIDE

- Leadership PE
- New ACEC Member
- TEF Scholarships

FROM THE EXECUTIVE DIRECTOR

GAME ON



By: Kasey Anderson
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Effective government affairs work is a lot like fielding a football team. A strong defense is critical; without it, you likely lose every time. But it's a strong offense that wins the game. Success on both offense and defense is important to a winning season. The 2016 legislative session was a tough one, but ACEC Tennessee played well.

As has been the case for a long time, ACEC/TN is well-versed in playing defense. We react quickly and effectively to protect the health, safety and welfare of the public. Here are some examples from 2016:

- We fought against the State Fire Marshal requiring field inspections in lieu of review of plans
- Amended drone legislation to be sure that engineers who are federally authorized to operate them are able to do so without penalty
- Amended a cooperative purchasing bill to specifically exclude purchases of construction, engineering, or architecture services.

While our defense was solid, this year our offensive line was a game-changer, with ACEC/TN President John Kenny leading the charge at quarterback. Together with our colleagues at AIA we filed SB1672 / HB1726, which clearly defined what should be paid as Additional Services for state design work. With pressure from the General Assembly (and most particularly our champion, Chairman Charles Sargent) the State Architect and the State Procurement

Agencies came to the table to negotiate a new contract that specifically addresses the 64 Additional Services in our bill. After 18 months of delay, the new state design contract will be before the State Building Commission in May.

Long-term, sustainable infrastructure funding is still in our future, but it is going to take our concerted effort as well as a continued commitment to the Transportation Coalition of Tennessee to ensure that we see a comprehensive bill next year. To abuse the football reference, we've had a great season, but we need to stay in shape in the off-season.

With that in mind, it's time to step up our game. ACEC National Chairman Ralph Christie often says "the PAC is the currency of the conversation." He's right. PAC money doesn't buy votes, but it does provide us the opportunity to strengthen relationships and allows us to support the elected officials who champion our efforts. ACEC PAC, our national PAC, raised an impressive \$1 million last year. Thanks to the efforts of a number of our members, ACEC Tennessee has already reached our state goal for this year's national campaign.

It's time to direct our energy to the Tennessee Professional Engineers' PAC. ACEC/TN is the 7th largest association in the state, and our PAC should reflect the influence our member firms and their employees have on the state of Tennessee. 2016 is proving to be an extremely competitive election year, and many of our champions in the State Legislature need our support. I urge each of you to contribute to TPE-PAC today.

To all who played a part in our success this year, good game!



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