PROCURING THE SERVICES OF A PROFESSIONAL ENGINEER

One of the most important procedures for ensuring proper maintenance of the dam is procuring the services of a professional engineer. This document is designed to answer the most commonly asked questions about hiring an engineer and to provide a list of engineers who have requested to be placed on a list.

Why do I need an engineer?

All dams will deteriorate with time. Periodic inspection, proper maintenance, and occasional repair and rehabilitation are inevitable. In addition, downstream development may have resulted in a change in the hazard classification and a need to upgrade the dam. An owner needs the expertise of an engineer to perform inspections or evaluate and undertake corrective measures at a dam.

An engineer can investigate the problem and recommend a course of action which may include the design of corrective measures and the preparation of construction plans and specifications, hydrologic and hydraulic analysis, breach analysis, and inundation mapping for emergency action plans. The engineer also can assist in selecting a contractor and can provide valuable construction inspection services.

Finally, §299.4 of 30 Texas Administrative Code Chapter 299, the Dam Safety Program rules, requires use of an engineer.

What type of engineer should I hire?

It is essential to select someone with a Texas Professional Engineer license, who is competent in the field of dam safety. Important criteria to look for in a prospective engineer include the following:

- A professional engineer licensed in Texas;
- A knowledge of the Texas Dam Safety rules and regulations (30 Texas Administrative Code Chapter 299);
- Specific experience in the problem area; e.g., hydrology, hydraulics, structural, or geotechnical engineering; and
- An engineering company with an active Texas Board of Professional Engineers Firm Registration number. Check the PE Board¹ web site for verification.

How do I choose an engineer who is best for my needs?

The best way to select an engineer is through a qualification-based approach, which is the approach public entities must use based on rules of the Texas Board of Professional Engineers. This means that the knowledge, experience, and ingenuity of the engineer are the determining factors in making the selection. This strategy is advantageous when the owner is uncertain about the exact problem or the best solution to the problem.

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When basing your selection on qualifications, several engineering firms submit their technical qualifications, experience with similar projects, reputation with existing clients, and other factors pertaining to the specific project. The owner then selects the most qualified firms to make brief presentations outlining a cost-effective and innovative approach to the problem. Based upon these presentations, the owner selects the most qualified engineer to develop a scope of work.

When agreement on the scope of work is achieved, the engineer and the owner negotiate a price that is fair and reasonable to both parties. If an agreement cannot be reached, negotiations start with the second ranked engineer. In this selection process, price is the main factor, but only after the most qualified engineer has been identified.

A private owner can also use a fee-based selection process, meaning that the engineer’s fee is the only determining factor in making the selection. This process is advantageous when the owner knows exactly what is needed and can clearly define the scope of work before meeting with the engineer. However, the owner may not get the best option for the project and may select an engineer that is not qualified to do the work.

What does an owner need to do?

An owner needs to:

- Request references from the engineer.
- Contact the references to discuss the engineer’s performance.
- If possible, look at other projects completed under the engineer’s design.
- Maintain an open line of communication with the Texas Dam Safety Program to verify that the rules will be met with the proposed work.
- Become knowledgeable in the basics of dam safety and the applicable rules.
- Carefully consider the selection of an engineer. A little extra work to ensure retaining the right engineer may save money in the future.
- Request options, if possible, for addressing the problem at the dam.

TCEQ Dam Safety Program Web Site

Dam Engineers that have requested to be listed

The following is an alphabetical list of engineers that have requested to be placed on the list. The TCEQ does not pre-certify, recommend, or endorse any of the following engineers. An owner is not obligated to hire an engineer on this list. Any licensed Texas professional engineer experienced and familiar with dam construction and design and TCEQ rules can be used.
The following list is in alphabetical order by engineering firm:

Adams Consulting Engineers, Inc., Tyler office
Dam Safety contact: David C. Riddle, Ph.D., P. E.
903/324-8400  david.riddle@adamsengineering.com

AECOM, Austin office
Dam Safety Contact: Jeff Irvin, P.E.
512/419-6523  jeff.irvin@aecom.com

AECOM, Dallas office
Dam Safety contact: Chula Ellepola, P. E.
214/741-0505  chula.ellepola@aecom.com

Amec Foster Wheeler, Dallas office
Dam Safety contact: Hector Gonzalez, P. E.
469/828-4160  hector.gonzalez2@amecfw.com

Amec Foster Wheeler, Topeka, Kansas office
Dam Safety contact: Larry Sample, P. E.
785/272-6830  larry.sample@amec.com

Arcadis, Houston office
Dam Safety contact: Paulo Monteiro dos Santos, P. E.
713/953-4800  paulo.monteirodossantos@arcadis.com

ATC Group Services, LLC, Alabaster, Alabama office
Dam Safety contact: Fred R. deLeon, Jr, P. E.
205/733-8775  fred.deleon@atcgs.com

Baird, Hampton & Brown, Inc., Grapevine office
Dam Safety Contact: Konstantine Bakintas, P. E.
817/251-8550 ext 301  kb@BHBinc.com

Baird, Hampton & Brown, Inc., Fort Worth office
Dam Safety contact: Trace Strevey, P. E.
817/338-1277  tstrevey@BHBInc.com

Baird, Hampton & Brown, Inc., Weatherford office
Dam Safety contact: Shannon L. Nave, P. E., CFM
817/596-7575  Shannon@BHBInc.com

BGE, Inc., Dallas office
Dam Safety contact: Dorian French, P. E., RPLS, D.WRE
469/621-3111  dfrench@bgeinc.com
Black & Veatch, Austin office
Dam Safety contact: Emily Schwartz, P. E.
512/351-4910  SchwartzE@BV.com

Black & Veatch, Dallas office
Dam Safety contact: Ray Brainard, P. G.
913/458-3078  BrainardRC@bv.com

Black & Veatch, Houston office
Dam Safety contact: Brian Gettinger, P. E.
913/458-3236  GettingerBC@bv.com

Black & Veatch, San Antonio office
Dam Safety contact: Phillip Cook, P. E.
210/404-1330  cookp@bv.com

Braun Intertec Corporation, Inc., Houston office
Dam Safety contact: Emile Hanna, P. E.
713/491-2629  ehanna@brauintertec.com

Bridgefarmer & Associates, Inc., Dallas office
Dam Safety contact: Tzu-Jui (Megan) Tang, P. E.
972/231-8800  tang@bridgefarmer.com

Bullock, Bennett & Associates, Bertram office
Dam Safety contact: Dan Bullock, P. E.
512/355-9198  dbullock@bbaengineering.com

Capco Engineering, Inc., Tyler office
Dam Safety contact: Gary L. Burton, III, P. E.
903/561-6984  garyb@capco-engineering.com

CDM Smith, Inc., Dallas office
Dam Safety contact: Jeff Van Pelt, P. E.
214/346-2856  vanpeltjd@cdmsmith.com

CivilTech Engineering, Inc., Cypress office
Dam Safety contact: Melvin G. Spinks, P. E.
281/304-0200  mgspinks@civiltecheng.com

CP&Y, Inc., Austin office
Dam Safety contact: Wesley Young, P. E., CFM
512/349-0700  wyoung@cpyi.com
CP&Y, Inc., Longview office
Dam Safety contact: Walter (Terry) Winn, Jr., P. E.
903/553-0500  twinn@cpyi.com

Crespo Consulting Services, Inc., Austin office
Dam Safety contact: L. Stephen Stecher, P. E.
512/343-6404  ssstecher@crespoinc.com

David Harris Engineering and Assistance, LLC, Elizabeth, Co. office
Dam Safety contact: David Harris, Ph.D., P. E.
303/748-9163  davidwharris@concast.net

Dewberry, Denton/DFW office
Dam Safety contact: Jake Lesue, P. E., CFM
940/735-3345  jlesue@dewberry.com

Dunaway Associates, Austin office
Dam Safety contact: Richard Frithiof, P. E., CFM
512/717-6311  rfrithiof@dunawayassociates.com

Enprotec/Hibbs & Todd, Abilene office
Dam Safety contact: Scott Hibbs, P. E.
325/698-5560  abilene@e-ht.com

Exceed Engineering, LLC, Canton office
Dam Safety contact: Jason Brown, P. E.
903/413-8897  j.brown@exceed-eng.com

Freese and Nichols, Inc., Austin office
Dam Safety contact: Victor M. Vasquez, P. E.
512/617-3142  vmv@freese.com

Freese and Nichols, Inc., Fort Worth office
Dam Safety contact: John Rutledge, P. E.
817/735-7284  jlr@freese.com

Freese and Nichols, Inc., Houston office
Dam Safety contact: Cody Cockroft, P. E.
712/600-6832  cmc@freese.com

Frentress Engineering, LLC, Athens office
Dam Safety contact: Corey Frentress, P. E.
903/904-5046  coreyfrentress@frentressengineering.com
Geosyntec Consultants, Inc., Austin office
Dam Safety contact: Brandon Klenzendorf, Ph.D., P. E.
512/354-3281  bklenzendorf@geosyntec.com

Givler Engineering, Inc., San Antonio office
Dam Safety contact: David Givler, P. E.
210/342-3991 ext 204  givler@givlerengineering.com

Gregory Geotechnical, Stillwater, OK. office
Dam Safety contact: Garry Gregory, Ph.D., P. E., D.GE.
505/747-8200  gggregory@gregeo.com

Halff Associates, Inc., Austin office
Dam Safety contact: Mike Moya, P. E., CFM, Vice President
512/777-4550  mmoya@halff.com

Halff Associates, Inc., Fort Worth office
Dam Safety contact: Andrew Ickert, P. E.
817/764-7523  aickert@halff.com

Halff Associates, Inc., Richardson office
Dam Safety contact: Jeffrey J. Alvarez, P. E., CFM
214/346-6228  jalvarez@halff.com

Henley-Johnston & Associates, Inc., Dallas office
Dam Safety contact: James F. Phipps, P.E.
214/941-3808  jphipps@hja-eng.com

HDR Engineering, Inc., Austin office
Dam Safety contact: Cris Parker, P. E.
512/912-5156  Cristopher.parker@hdrinc.com

Huit-Zollars, Inc., Dallas office
Dam Safety contact: John Ho, P. E.
214/871-3311  jho@huit-zollars.com

Huit-Zollars, Inc., Fort Worth office
Dam Safety contact: Larry Rogers, P. E.
817/335-3000  lrogers@huit-zollars.com

Huit-Zollars, Inc., Houston office
Dam Safety contact: Gregory R. Wine, P. E.
281/496-0066  gwine@huit-zollars.com
HydroLink Engineering, Addison office
Dam Safety contact:  David F. Barker, P. E., CFM
972/738-6111   dbarker@hydrolinkengineering.com

Jacob & Martin, LTD., Abilene office
Dam Safety contact:  Kenneth B. Martin, P. E.
325/695-1070   kbm@jacobmartin.com

Jacobs Engineering Group, Inc., Dallas office
Dam Safety contact:  Jack Furlong, P. E., D.WRE.
214/583-8201   jack.furlong@jacobs.com

Jacobs Engineering Group, Inc., Fort Worth office
Dam Safety contact:  Olivia Whittaker, P. E., CFM
214/583-8284   olivia.whittaker@jacobs.com

Jones & Carter, Inc., Houston office
Dam Safety contact:  Craig Kalkomey, P. E.
713/777-5337   cwkalkomey@jonescater.com

Jones-Heroy & Associates, Lampasas office
Dam Safety contact:  Jason S. Jones, P. E.
512/556-2300   jasonj@jones-heroy.com

KBGE, Austin office
Dam Safety contact:  Chad Kimbell, P. E.
512/439-0400   ckimbell@cecinc.com

Kimley-Horn & Associates, Dallas office
Dam Safety contact:  Brad Pickering, P. E., CFM
972/770-1300   brad.pickering@kimley-horn.com

Kimley-Horn & Associates, Los Colinas office
Dam Safety contact:  Misty Christian, P. E., CFM
214/420-5600   misty.christian@kimley-horn.com

Koogler Associates, Houston office
Dam Safety contact:  James Koogler, P. E.
713/305-5371   jkoogler@kooglerassociates.net

KSA, Longview office
Dam Safety contact:  Chris Aylor, P. E.
903/236-7700   caylor@ksaeng.com
KSA, Tyler office  
Dam Safety contact: Lynn Hitt, P. E.  
903/581-8141  lhitt@ksaeng.com

LJA Engineering, Inc., Dallas office  
Dam Safety contact: Angus Tewnion, P. E.  
214/451-0884  atewnion@lja.com

LJA Engineering, Inc., Houston office  
Dam Safety contact: Chad Johnson, P. E., CFM  
713/953-5211  cjohnson@lja.com

LNV, San Antonio office  
Dam Safety office: Alan Thompson, P. E.  
210/822-2232  athompson@lnvinc.com

McLendon Hydrology and Engineering, LLC, Fort Worth office  
Dam Safety contact: David W. McLendon, P. E., CFM  
817/504-6726  david.mclendon@gmail.com

M&E Consultants, Heidenheimer office  
Dam Safety contact: Dennis Medlin, P. E.  
254/983-9108  denmed@vvm.com

M. Evans Consulting, Big Spring office  
Dam Safety contact: Michelle Evans, P. E., CFM  
512/771-3456  mevans@mevansconsulting.com

M&S Engineering, Spring Branch office  
Dam Safety contact: Keith Strimple, P. E.  
830/228-5446  kstrimple@msengr.com

Nathan D. Maier, Dallas office  
Dam Safety contact: Jim Keith, P.E., CFM  
214/739-4741  jkeith@ndmce.com

NV5, Inc., Arlington office  
Dam Safety contact: Anthony J. Jaecques, P. E.  
682/276-2691  anthony.jaecques@nv5.com

O’Brien Engineering, Dallas office  
Dam Safety contact: Jim O’Brien, P. E., CFM  
972/233-2288  jobrien@obrieng.com
OCCAM/EC, Houston office
Dam Safety contact: Ken Easterling, P. E.
281/894-0199  keasterling@occam.pro

Parsons Brinckerhoff, Dallas office
Dam Safety contact: David P. Lutz, P. E.
214/583-3427  lutzdp@pbworld.com

Pierce Chandler, Rockwall office
Dam Safety contact: Pierce L. Chandler, Jr., P. E.
972/771-1310  omc@airmail.net

Pierce Engineering, Childress office
Dam Safety contact: Brian G. Pierce, P. E.
940/937-8600  bpierce@pierceengineering.net

Purkeypile Consulting, LLC, Holiday Island, Ark. Office
Dam Safety contact: Dee Purkeypile, P. E.
512/971-2264  dee@purkeyconsulting.com

RPS Group, Austin office
Dam Safety contact: James Isensee, P. E.
512/879-6681  isenseej@rpsgroup.com

Schaumburg & Polk, Inc., Tyler office
Dam Safety contact: Allen R. Ross, P. E.
903/595-3913  aross@spi-eng.com

Schnabel Engineering, Dallas office
Dam Safety contact: Jimmy Crowder, P. E.
972/250-3322  jcrowder@schnabel-eng.com

Stokes & Associates, Inc., Henderson office
Dam Safety contact: Steven B. Wick, P. E.
903/657-7558  steve@stokesandassociates.com

Teague Nall & Perkins, Inc., Fort Worth office
Dam Safety contact: Niraj Acharya, P. E.
817/336-5773  nacharya@tnpinc.com

Teague Nall & Perkins, Inc., Houston office
Dam Safety contact: Eric Friedrich, P. E.
832/220-1205  efriedrich@tnpinc.com
Velvin & Weeks Consulting Engineers, Inc., Athens office
Dam Safety contact:  David Cundieff, Jr.
903/675-3903   dcundieff@velvin-weeks.com

Walter P. Moore Company, Houston office
Dam Safety contact:  Andrew C. Yung, P. E.
713/394-5885   ayung@walterpmoore.com

West Consultants, Salem, Oregon office
Dam Safety contact:  Ramesh Chintala, P. E.
972/533-2730   rchintala@westconsultants.com

Westra Consultants, Arlington office
Dam Safety contact:  Sol Stigall, P. E., CFM
817/230-4147   sstigall@westraconsultants.com

Wood, plc, El Paso office
Dam Safety contact:  Mark J. Breitnauer, P. E.
915/585-2472   mark.breitnauer@woodplc.com

Z Professional Services, Southlake office
Dam Safety contact:  Rodney Zielke, P. E.
214/502-7209   rodzielke@aol.com

1 [http://www.tbpe.state.tx.us](http://www.tbpe.state.tx.us)