



COUNCIL of GOVERNMENTS CENTRAL NAUGATUCK VALLEY

49 Leavenworth Street, Suite 303, Waterbury, CT 06702 • 203-757-0535 • cogcnv.org

Qualification Statement Submittal Form for

Regulatory Dam Inspection Services and Other Dam Safety Related Engineering Services

Please save this document locally, fill in all applicable fields, and attach to your submittal e-mail.

A. Company Contact Information:

Company Name:	Wright-Pierce					
Street Address:	169 Main Street 700 Plaza Middlesex		City:	Middletown		
			State:	CT	Zip Code: 06457	Phone: 860-343-8297
			E-Mail:	john.braccio@wright-pierce.com		
Web Address:	www.wright-pierce.com		Primary Contact:	John Braccio, PE		
Is this company registered to practice as a Professional Engineering Corporation in the State of Connecticut?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		CT Registration#:	PEC.0000711		

B. Company Description:

Wright-Pierce is an award-winning full-service engineering firm providing civil and infrastructure services to public and private clients throughout the Northeast for more than 65 years. Employee-owned and customer focused, Wright Pierce has a staff of nearly 200 engineers and support professionals located in seven offices. While our prime area of operation is the Northeast, we selectively provide services elsewhere in the United States and globally.

Innovative, Reliable, Sustainable Solutions Tailored to Your Needs

As a respected, quality-driven firm, we are proud of our verifiable track record for delivering technical excellence and innovation. We do not subscribe to a "one-size-fits-all" philosophy; rather, we identify the best solution for your specific needs.

Value Driven

We understand the value of a dollar and the fiscal constraints facing our clients. We take pride in our track record developing solutions that represent the best life cycle cost value. Our understanding of value and the delivery of reliable solutions has been the cornerstone to our success in New England.

Responsive Service Focused on Your Success

As a valued client, the success of your project is our foremost concern, and the only measure of our success. What sets us apart is expertise in developing creative, sustainable, efficient solutions tailored to meet your needs — today and tomorrow.

- ✓ We listen, investigate and understand the requirements.
- ✓ We stress practical operator-friendly solutions.
- ✓ We understand fiscal constraints and emphasize value-based solutions.
- ✓ We involve and collaborate with our clients every step of the way.

We are about building long-standing relationships and delivering on our promise to help you succeed and improve our communities for the future.

Wright-Pierce — innovative, reliable, sustainable solutions for your success today and tomorrow!

C. Staff Information

For key staff members that may be assigned dam safety related tasks, please provide the following information. For each staff member listed, attach a current resume to the submittal e-mail.

Staff 1 Name:	Johnathan Edgerton, PE	Title:	Senior Vice President
Primary Duties:	Principal-in-charge, project management, engineering inspection, evaluation, rehabilitation design & cost estimating, and fish passage design and construction review	Connecticut P.E. License #:	Licensed in ME & NH
		Relevant Years Experience:	29 Resume Attached <input checked="" type="checkbox"/>
Staff 2 Name:	Walter Flanagan, PE	Title:	Senior Vice President
Primary Duties:	Project management, dam inspection and evaluation; concrete dam stability analysis, dam repair, specification development and construction oversight	Connecticut P.E. License #:	PEN.0019265
		Relevant Years Experience:	33 Resume Attached <input checked="" type="checkbox"/>
Staff 3 Name:	Ryan Wingard, PE, CPESC	Title:	Senior Project Manager & Associate
Primary Duties:	Project management, hydrologic and hydraulic studies, dam breach modeling and inundation mapping	Connecticut P.E. License #:	PEN.0026167
		Relevant Years Experience:	18 Resume Attached <input checked="" type="checkbox"/>
Staff 4 Name:	Jeffrey Dewey, PE	Title:	Senior Project Engineer
Primary Duties:	Dam inspection	Connecticut P.E. License #:	PEN.020003
		Relevant Years Experience:	21 Resume Attached <input checked="" type="checkbox"/>
Staff 5 Name:	Patricia McIlvaine	Title:	Dam Safety Specialist
Primary Duties:	Project management, Emergency Action Plan and O&M Plan development, inundation mapping, EAP exercises, Permitting and FERC licensing	Connecticut P.E. License #:	
		Relevant Years Experience:	40 Resume Attached <input checked="" type="checkbox"/>

D. Services:

Please check the box next to any service your firm is qualified to undertake and interested in providing. If your firm offers other specialized dam-related services, please list them in the space provided. In following sections you will be asked to explain qualifications and provide examples of previous work and references for each service you check or list.

Dam Inspection <input checked="" type="checkbox"/>	Inundation Modeling and Mapping <input checked="" type="checkbox"/>	Other Specialized Dam Safety Related Services: <ul style="list-style-type: none"> State and local permitting Fish passage design, specification development and construction oversight GIS services Emergency Action Plan exercises FERC licensing and compliance with regulatory requirements Dam removal feasibility studies, and structure deconstruction design and oversight
Dam Emergency Action Plan Preparation <input checked="" type="checkbox"/>	Hydrologic and Hydraulic Studies <input checked="" type="checkbox"/>	
Dam Operations and Management Plan Preparation <input checked="" type="checkbox"/>	Stability Analysis* <input checked="" type="checkbox"/> <small>Structural stability analysis capabilities do not include earthen embankment dams</small>	
Dam Repair Plan Preparation <input checked="" type="checkbox"/>	Underwater Investigation <input type="checkbox"/>	
Dam Removal Plan Preparation <input checked="" type="checkbox"/>	Dam Repair and Construction Monitoring <input checked="" type="checkbox"/>	

E. Qualifications:

Please explain your firm's qualifications for each service checked or listed in section D.

Wright-Pierce is a full-service consulting engineering firm with the expertise and experience to solve a broad range of dam engineering and emergency planning concerns. One of Wright-Pierce's strengths is the fact that because we are a multidisciplinary firm, we have the in-house support staff to "cover all the bases." We have taken projects from the planning phase, through conceptual and final design, permitting, and onto and through construction.

Our engineers have performed structural inspections of dams as a part of regular maintenance programs, in response to agency letters of deficiency, and to address unforeseen emergency conditions. We have conducted numerous dam inspections in compliance with the various state regulations, which in general, follow inspection protocols established by the US Army Corps of Engineers for Phase I or II Inspections. We have also conducted inspections required by FERC under the Dam Safety Surveillance and Monitoring Plan requirements.

We have assisted a number of clients in assessing whether or not their dams satisfy regulatory requirements in terms of being able to pass required flood event flows as dictated by state or federal requirements. For these projects, we have supported our clients by evaluating the watershed hydrology, as well as conducting modeling of the project's hydraulic characteristics to determine the discharge capacity of the existing spillway(s) and/or outlets. These studies allow us to determine what increases in hydraulic discharge capacity may be necessary to pass the required storm flows. Our engineers are experienced in the use of HydroCAD (v. 9.00), as well as HEC-RAS, both commonly used software programs for conducting hydrologic and hydraulic assessments, respectively. We have employed these methodologies in numerous dam analyses throughout New England.

We have prepared both conceptual and detailed designs for dam rehabilitation and replacement. Many projects are initiated as a study to investigate feasible alternatives and costs. Based on the selected option, plans and specifications for repair or modification of the facility are prepared. Plans are advanced from the preliminary conceptual stage through final design, based on design criteria established in conjunction with clients. We also often assist our clients in the bid evaluation process.

Wright-Pierce has prepared the necessary local, state and federal permit applications that are required for dam repair and removal projects. We routinely work with local planning and zoning boards, zoning boards of appeals, and wetland commissions, along with special interest groups. We have considerable experience dealing with the various state permitting agencies, including the CT DEEP and have assisted clients in the acquisition of state required permits for dam rehabilitation work. We have also assisted with regulatory permitting and compliance requirements required by FERC, the United States Environmental Protection Agency, and the United States Army Corps of Engineers (ACOE).

Engineering construction services, involving oversight of construction activities, are the final steps to assure that the client's goals are satisfied and the project is implemented in accordance with the plans and specifications. Wright-Pierce maintains a staff of resident project representatives (RPRs) to perform on-site observation of the construction process. The RPR makes sure that the contractor performs all construction operations in accordance with the design plans and specifications. Daily field reports are kept by the RPR to document all construction work.

We have also conducted all aspects of emergency planning. Our experience includes use of hydraulic, hydrologic and dam breach modeling programs necessary for assessing or confirming a dam's hazard classification. Our engineers are experienced in the use of DAMBRK as well as HEC-RAS, two methods typically used for dam breach assessments. We have employed these methodologies in numerous dam breach studies. Following completion of the hydraulic modeling effort, inundation maps are typically prepared using ESRI Geographic Information System (GIS) software. Our GIS group has developed inundation mapping for hundreds of miles of rivers within many major river basins in the Northeast. We have prepared an extensive number of Emergency Action Plans (EAPs) following various state regulations and that of FERC. This experience allows us to prepare EAPs that are comprehensive but user-friendly. Our EAP format also allows for easy updating, which is critical to keep the EAP current, and therefore useful. Finally, we have conducted all levels of EAP testing, from telephone notification drills through Tabletop and Functional exercises required by FERC.

Many recent Wright-Pierce projects involving rehabilitation of dams have included requirements for the installation of fishways. Such passage requirements have involved structures to assist anadromous species to reach suitable spawning grounds, as well as expansion of available habitat for freshwater species. While many of the dams on rivers in the Northeast have had fishways for some time, state and federal fisheries agencies and FERC have been looking with increased scrutiny at the effectiveness of such older passage structures. Our engineers are familiar with both state and federal requirements and the suitability of various designs for target species. We have been successful in obtaining grants and other funding sources such as the NOAA and the Gulf of Maine Program for a number of clients.

F. Examples of Previous Work:

For each service checked or listed in section D, provide at least one comparable project completed by your firm within the past 10 years. Provide a brief description of the service rendered, the project name and location (Town and State), dam class, and a customer reference name and contact information (phone and/or e-mail)

Service Provides	Dam Name and Location	Dam Class	Customer Reference Name	Customer Email/ Phone
Inspection & CT DEEP Inspection Report	Roberts Pond Dam Ridgefield, CT	Sig	(1) See footnote	
Inspection & CT DEEP Inspection Report	Shaker Pond Dam Enfield, CT	Sig	(1) See footnote	
Inspection, CT DEEP Inspection Report and EAP	Spring Lake Dam Sherman, CT	Sig	(1) See footnote	
Inspection, CT DEEP Inspection Report and EAP	Millard Pond Dam Norwalk, CT	Sig	(1) See footnote	
Inspection repair plan permitting, hydrologic/hydraulic/dam breach modeling, EAP & repair oversight	Baltic Reservoir Dam, Sprague, CT	Sig	Town of Sprague Catherine Osten First Selectwoman	860-822-3000 x201 or 202
Inspection & repair plan	Kenoza Lake Outlet Dam, Haverhill, MA	Sig	City of Haverhill, MA John D'Aoust WTP Manager	978-374-2385
Inspection, repair plans, hydrologic & hydraulic modeling and repair oversight	Georgiaville Pond Dam, Smithfield, RI	High	Twn of Smithfield Kevin Cleary Town Engineer	401-233-1041
Inspection, repair plans, hydrologic & hydraulic modeling	Wenscott Reservoir Dam, North Providence, RI	High	Twn of North Providence, RI Glen Corrente Director, Public Works Dept	401-233-1440
Hydrologic/hydraulic modeling, dam breach study + inundation mapping, EAP updates	Rocky River Pumped Storage Dams. New Milford, CT	High	FirstLight Power Resources Stuart Permarini Eng & Compliance Mgr.	860-350-3052
Hydrologic/hydraulic modeling, dam breach study, inundation mapping & EAP updates	Shepaug + Stevenson Dams, Oxford and Southbury, CT	High	FirstLight Power Resources Stuart Permarini Eng & Compliance Mgr.	860-350-3052
Inspection repair plan, hydrologic/hydraulic modeling, permitting & repair oversight	College Pond Dam Weston, MA	Low	Town of Weston, MA Stephan Fogg Town Engineer	781-786-5115
Inspection repair plan, hydrologic/hydraulic modeling, permitting & repair oversight	Boulter Pond and Bell Marsh Dams York, ME	Both Sig	Kittery Water District Michael Rogers Superintendent	207-439-1128
Inspection, repair plan, hydrologic, hydraulic & dam breach modeling, EAP, permitting & repair oversight	Grassy Pond Dam Rockport, ME		Aqua Marine Rick Knowles Director of Operations	207-236-8428
Inspection, D+M Plan (DSSM), repair plan and oversight and underwater inspection by sub	Kesslen, Dave Perkins + Twine Mill Dams, Kennebunk ME	Low	Kennebunk Power & Light District Sharon Staz General Manager & Treasurer	207-985-3311
Inspection, hydrologic, hydraulic and dam breach modeling & inundation mapping	Corcoran's Pond Dam Waterville Valley, NH	High	Twn of Waterville Valley Mark Decteau Town Manager	603-236-4730
Inspection, hydrologic, hydraulic and dam breach modeling, dam repair plan, permitting & repair oversight	Calef Lake Dam Auburn, NH	High	(1) See footnote	
Inspection, removal design, permitting, temporary EAP, and removal oversight	Veazie Dam Veazie, ME	N/A Removal	Penobscot River Restoration Trust Laura Rose Day, Exec. Dir.	207-430-0146
Inspection, removal design, permitting, and removal oversight	Lower Martin Brook Dam Madawaska, ME	N/A Removal	Madawaska Water District Donald Chasse Superintendent	207-728-3859
Inspection, fishway design, permitting and fishway construction oversight	WInnegance Dam & Fishway Phippsburg, ME	Low	Winnegance Alewife Commission David Hennessey, Chair	207-443-3889
Inspection, fishway design, permitting and fishway repair oversight	Nequasset Lake Dam Woolwich, ME	Low	Bath Water District Trevor Hunt Superintendent	207-443-2391

(1) By policy and respect for these clients, Wright-Pierce does not provide contact information for our clients who are private individuals.