

**RFQ# ADSPO14-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. REVISED ADSPO13-00003465: Annual Request for Qualifications

a.	FIRM (OR BRANCH OFFICE) NAME:	Applied Pavement Technology, Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	115 W. Main Street, Suite 400
c.	FIRM (OR BRANCH OFFICE) CITY:	Urbana
d.	FIRM (OR BRANCH OFFICE) STATE:	IL
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	61801
f.	YEAR ESTABLISHED:	1994
(g1).	OWNERSHIP - TYPE:	S-Corporation
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	AZ DOT DBE and AZ UTRACS SBC
h.	POINT OF CONTACT NAME AND TITLE:	Casey Brooks, Business Development Coordinator
i.	POINT OF CONTACT TELEPHONE NUMBER:	217-398-3977
j.	POINT OF CONTACT E-MAIL ADDRESS:	prequal@appliedpavement.com
k.	NAME OF FIRM <i>(If block 1a is a branch office):</i>	

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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Civil Engineer	P	26	19
CADD Technician	P	6	5
Other - Administrative	P	8	7
Total		40	31

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REVISED - Attachment I – General Qualifications**

4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Kathryn A. Zimmerman, P.E.	b. ROLE IN THIS CONTRACT Principal-In-Charge / Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 19
d. FIRM NAME AND LOCATION (City and State) Applied Pavement Technology, Inc. (Urbana, IL)			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering, University of Illinois, 1985 B.S., Civil Engineering, University of Illinois, 1983 Certificate, Instructional System Technology, College of Education, Indiana University, 2011		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) AZ PE; AL PE; AR PE, CO PE, CT PE, FL PE, HI PE, ID PE, IL PE, IN PE, IA PE, KS PE, KY PE, LA PE, MD PE, MI PE, MS PE, MO PE, MT PE, NE PE, NV PE, NJ PE, NM PE, NY PE, NC PE, OH PE, OR PE, SC PE, SD PE, TN PE, TX PE, UT PE, WA PE, WV PE, WI PE, WY PE	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Co-Author of AASHTO's Pavement Management Guide, Co-Author of "A 10-Year Prioritized Roadmap for Pavement Management, Co-Author of The Asphalt Handbook: 7th Edition, Member of the Transportation Research Board, Recipient of the National Highway Institute Instructor of Excellence Award in 2012			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Minnesota DOT Transportation Asset Management (TAM) Plan Development (Statewide, MN)	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and Principal-In-Charge for the Minnesota DOT TAM Plan Development. Project in progress, projected completion date of 2014. Ms. Zimmerman is responsible for developing a comprehensive TAM Plan that exceeds the expectations of MAP-21, that coordinates with the FHWA pilot program, that is aligned with AASHTO guidance, that is accepted by key stakeholders, and that formalizes and documents key information. Responsible for facilitating meetings, directing work efforts, and writing the plan. \$250,000.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Pavement Testing and Evaluation Services for the City of Urbana Streets (Urbana, IL)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Pavement Testing and Evaluation Services for the City of Urbana Streets. Ms. Zimmerman was responsible for overseeing all aspects of the project, which included record collection, falling weight deflectometer (FWD) testing, coring, analysis of data, and development of rehabilitation alternatives and pavement improvement recommendations for five local streets (Lincoln Avenue, Race Street, Broadway Avenue, Illinois Street, and Washington Street). \$46,759.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) FHWA Sustainable Pavements Program IDIQ (Nationwide)	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the FHWA Sustainable Pavements Program Indefinite Delivery Indefinite Quantity (IDIQ) Project. This project is ongoing with a projected completion date of 2015. The Sustainable Pavements program is a major initiative with the overarching goal of advancing the knowledge and implementation of sustainability considerations in pavements and pavement materials. APtech is responsible for coordinating the Technical Working Group, developing a reference document, and facilitating technology transfer of information on sustainable pavements and materials. \$1,434,914.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Illinois DOT Pavement Profile Testing and Profile Equipment Verification (Statewide, IL)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Illinois DOT Pavement Profile Testing and Profile Equipment Verification. Ms. Zimmerman was responsible for overseeing all aspects of the project which included using a lightweight profiler and a profile reference device owned and maintained by the Illinois DOT to perform quality assurance profile testing on an on-call basis across the state. The results are analyzed and reported to the field engineer and the Bureau of Materials and Physical Research. \$300,000.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Honolulu Wilhelminia Rise Pavement Friction Investigation (Honolulu, HI)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Honolulu Wilhelminia Rise Pavement Friction Investigation. Ms. Zimmerman was responsible for overseeing all aspects of the project, which included the development and implementation of the Friction/Texture Field Testing Plan, a records review, analysis of collected data, and the development of recommendations. \$16,674.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Margaret R. Covalt, P.E.		b. ROLE IN THIS CONTRACT Principal-In-Charge / Project Manager		c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 17		
d. FIRM NAME AND LOCATION (City and State) Applied Pavement Technology, Inc. (Urbana, IL)					
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering, University of Illinois, 1986 B.S., Civil Engineering, University of Illinois, 1984			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) AZ PE, CO PE, CT PE, GA PE, IL PE, KS PE, KY PE, MA PE, MN PE, NJ PE, PA PE, SC PE, VA PE, WA PE		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Co-Author of ASCE's The Arizona Airport Pavement Management System: History and Innovation; Co-Author of Strategies for Allocation Limited Airport Pavement Funds; Member of the Transportation Research Board; Member of the Airport Consultants Council; Member of the American Society for Testing and Materials					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) 2013 Arizona Statewide APMS Update (Statewide, AZ)	(2) Year Completed	
		Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the Arizona Statewide Airport Pavement Management System (APMS) Update. Project in progress, projected completion date of 2014. This project, which involves sixty-three airports, includes the collection of inventory and condition data, preparation of maps, conduction of pavement condition index (PCI) surveys, development of an 8-year maintenance and rehabilitation (M&R) plan, report generation, and development of an APMS procedures manual. It also includes the development of a web-based Interactive Data Exchange Application (IDEA). Ms. Covalt also served as the Project Manager on the 1999 initial implementation of the APMS and its 2002, 2006, and 2010 updates. \$625,656. <input checked="" type="checkbox"/> Check if project performed with current firm			
2)	(1) TITLE AND LOCATION (City and State) 2011 to 2016 Colorado Statewide APMS Update (Statewide, CO)	(2) Year Completed	
		Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the 2011 to 2016 Colorado APMS Update. Project in progress, projected completion date of 2016. This project involves pavement management at sixty-three airports, with approximately one third of them being evaluated each year. Ms. Covalt oversee all aspects of the project, which includes the collection of condition data, the preparation of maps, the update of a MicroPAVER™ database, data analysis, the preparation of M&R programs, report preparation, a map link to MicroPAVER™, the update of the IDEA, and training. During 2012 this project also included a specialized study on materials-related distress (MRD) in Colorado. Ms. Covalt also served as the Project Manager for all previous updates dating back to 1996. \$487,591 (to date). <input checked="" type="checkbox"/> Check if project performed with current firm			
3)	(1) TITLE AND LOCATION (City and State) Tucson Airport Authority APMS Update (Tucson, AZ)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Tucson Airport Authority APMS Update, including the airside and landside pavements at Tucson International Airport and the landside pavements at Ryan Field Airport. The project included records review; map updates; PCI inspections; MicroPAVER™ update and customization; development of maintenance, repair, and rehabilitation recommendations; preparation of a project report; and creation of a GIS link within MicroPAVER™. In addition, it included the determination of Pavement Classification Numbers (PCNs) for the airside pavements and training on the use of MicroPAVER™. \$156,983. <input checked="" type="checkbox"/> Check if project performed with current firm			
4)	(1) TITLE AND LOCATION (City and State) Phoenix Sky Harbor International APMS Update (Phoenix, AZ)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Phoenix Sky Harbor International APMS Update. The project included records review; map updates; PCI inspections; MicroPAVER™ update and customization; development of maintenance, repair, and rehabilitation recommendations; preparation of a project report; and creation of a GIS link within MicroPAVER™. In addition, it included the determination of Pavement Classification Numbers (PCNs) and the development of an IDEA. \$260,394. <input checked="" type="checkbox"/> Check if project performed with current firm			
5)	(1) TITLE AND LOCATION (City and State) 2013 New Mexico APMS Update (Statewide, New Mexico)	(2) Year Completed	
		Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the 2013 New Mexico APMS Update. Project in progress, projected completion date of 2017. Ms. Covalt is responsible for overseeing all aspects of this project, which includes the collection of inventory data, PCI inspections, update of MicroPAVER™ database, analysis to produce multi-year M&R plan, reports, and the development of a web-based IDEA. In addition, PCN values will be calculated for the airport runways. Training on the use of the MicroPAVER™ software will be provided. \$673,508. <input checked="" type="checkbox"/> Check if project performed with current firm			

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME David G. Peshkin, P.E.		b. ROLE IN THIS CONTRACT Principal-In-Charge / Project Manager		c. YEARS EXPERIENCE	
				1. TOTAL 26	2. WITH CURRENT FIRM 17
d. FIRM NAME AND LOCATION (City and State) Applied Pavement Technology, Inc. (Urbana, IL)					
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering, University of Illinois, 1987 B.S., Civil Engineering, University of Illinois, 1986 B.A., History, Swarthmore College, 1977			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) DE PE, GA PE, IL PE, ME PE, MA PE, MI PE, NV PE, NH PE, NY PE, ND PE, OK PE, RI PE, VT PE, VA PE		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Co-Author of the Strategic Highway Research Program's Preservation Approaches for High Traffic Volume Roadways, Member of the Transportation Research Board, Member of the FHWA Pavement Preservation Expert Task Group, Vice Chair of the Airport Consultants Council (ACC) Board of Directors, Recipient of the ACC Board of Governors Chair Award					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Douglas County Forensic Pavement Analysis (Douglas County, CO)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Douglas County Forensic Pavement Analysis. Mr. Peshin was responsible for overseeing the project which included conducting a records review, overseeing pavement condition surveys and materials testing, and developing recommendations for pavement rehabilitation. \$76,487.		
2)	(1) TITLE AND LOCATION (City and State) Pavement and Materials Support for US-36 Design-Build Proposal Preparation (Denver, CO)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Pavement and Materials Support for US-36 Design-Build Proposal Preparation. APTEch provided pavement and material expertise for the Design Teams' proposal for the US-36 Design-Build Project. Mr. Peshkin oversaw all aspects of this project. \$12,754.		
3)	(1) TITLE AND LOCATION (City and State) Assessment of Washington County, OR Pavement Preservation and Maintenance Program (Washington County, OR)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge for the Assessment of Washington County, OR Pavement Preservation and Maintenance Program. Mr. Peshkin was responsible for overseeing a comprehensive review of the maintenance program and comparison with industry practices. \$77,872.		
4)	(1) TITLE AND LOCATION (City and State) Philadelphia International Airport Taxiway Rutting Forensic Evaluation (Philadelphia, PA)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge and Project Manager for the Philadelphia International Airport Taxiway Rutting Forensic Evaluation. Mr. Peshkin performed a records review and a site visit to evaluate existing pavement conditions. Pavement cores were retrieved from distressed locations to assess existing conditions, with laboratory testing performed to determine the hot-mix asphalt (HMA) properties of the in-place material. Mr. Peshkin used the collected data to propose both a short-term and long-term repair plan. \$26,657		
5)	(1) TITLE AND LOCATION (City and State) Bangalore International Airport Limited Runway 9-27 Mill and Inlay Assessment (Bangalore, India)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the Bangalore International Airport Limited Runway 9-27 Mill and Inlay Assessment. Mr. Peshkin was responsible for reviewing the project specifications; observing the milling operation, surface cleaning, tack coat application, and inlay placement; and reviewing quality control results.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Kurt D. Smith, P.E.		b. ROLE IN THIS CONTRACT Senior Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 28	2. WITH CURRENT FIRM 17
d. FIRM NAME AND LOCATION (City and State) Applied Pavement Technology, Inc. (Urbana, IL)					
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering, University of Illinois, 1985 B.S., Civil Engineering, University of Illinois, 1983			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Illinois Professional Engineer		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member of the Transportation Research Board; Member of the American Society of Civil Engineers; Member of the International Society for Concrete Pavements; Recipient of the National Highway Institute Instructor of Excellence Award in 2011 and 2012.					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) FHWA Sustainable Pavements Program IDIQ (Nationwide)	(2) Year Completed	
		Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the FHWA Sustainable Pavements Program Indefinite Delivery Indefinite Quantity (IDIQ) Project. This project is ongoing with a projected completion date of 2015. The Sustainable Pavements program is a major initiative with the overarching goal of advancing the knowledge and implementation of sustainability considerations in pavements and pavement materials. APTech is responsible for coordinating the Technical Working Group, developing a reference document, and facilitating technology transfer of information on sustainable pavements and materials. \$1,434,914. <input checked="" type="checkbox"/> Check if project performed with current firm			
2)	(1) TITLE AND LOCATION (City and State) Porter County Regional Airport Apron Forensic Investigation (Porter County, IN)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer for the Porter County Regional Airport Apron Forensic Investigation. Mr. Smith conducted a detailed visual inspection with distress mapping and reviewed available design and construction documents to identify the probable cause(s) of early-age cracking and estimate the anticipated performance life and maintenance needs. \$34,231. <input checked="" type="checkbox"/> Check if project performed with current firm			
3)	(1) TITLE AND LOCATION (City and State) Pavement Testing and Evaluation Services for the City of Urbana Streets (Urbana, IL)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer for the Pavement Testing and Evaluation Services for the City of Urbana Streets. Mr. Smith assisted with record collection, falling weight deflectometer (FWD) testing, coring, analysis of data, and development of rehabilitation alternatives and pavement improvement recommendations for five local streets (Lincoln Avenue, Race Street, Broadway Avenue, Illinois Street, and Washington Street). \$46,759. <input checked="" type="checkbox"/> Check if project performed with current firm			
4)	(1) TITLE AND LOCATION (City and State) John F. Kennedy International Airport Runway 13R-31L Spall Evaluation (Jamaica, NY)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer for the John F. Kennedy International Airport Runway 13R-31L Spall Evaluation. The project had two phases: the first phase addressed general issues associated with spall repair, and the second phase addressed the specific condition of the documented spalls. Mr. Smith assisted with the update the Port Authority's spall survey database and composed a summary report on survey procedures and pavement repairs. \$42,691. <input checked="" type="checkbox"/> Check if project performed with current firm			
5)	(1) TITLE AND LOCATION (City and State) Honolulu Wilhelminia Rise Pavement Friction Investigation (Honolulu, HI)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer for the Honolulu Wilhelminia Rise Pavement Friction Investigation. Mr. Smith assisted with the development and implementation of the Friction/Texture Field Testing Plan, a records review, and the development of recommendations. \$16,674. <input checked="" type="checkbox"/> Check if project performed with current firm			

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Stephen B. Seeds, P.E.	b. ROLE IN THIS CONTRACT Project Manager / Senior Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 13
d. FIRM NAME AND LOCATION (City and State) Applied Pavement Technology, Inc. (Reno, NV)			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Engineering, University of Texas at Austin, 1980 B.S., Civil Engineering, University of Texas at Austin, 1977		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) California Professional Engineer, Nevada Professional Engineer	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member of the Transportation Research Board; Member of the California Pavement Preservation Task Group; Member of the International Association for Asphalt Pavements; Member of the American Society of Civil Engineers; Recipient of the National Highway Institute Instructor of Excellence Award for 2010, 2011, and 2012.			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
1)	Douglas County Forensic Pavement Analysis (Douglas County, CO)	Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Douglas County Forensic Pavement Analysis. Mr. Seeds was responsible for overseeing the project which included conducting a records review, overseeing pavement condition surveys and materials testing, and developing recommendations for pavement rehabilitation. \$76,487.		
2)	Evaluation of Maintenance Strategies for the Arizona DOT (Statewide, AZ)	Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Arizona DOT Study, Evaluation of Maintenance Strategies. Mr. Seeds evaluated field performance data from multiple wearing course and preventive maintenance experimental treatment projects to determine which provided the best performance in terms of weathering, flushing, skid resistance, thermal cracking, and fatigue cracking and to identify recommend those that were most effective. \$115,000.		
3)	Oregon DOT On-Call Pavement Design Services	Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Oregon DOT On-Call Pavement Design Services. Mr. Seeds was responsible for overseeing all aspects of the project. He conducted field pavement evaluation and developed structural rehabilitation design recommendations for six key segments of the state highway infrastructure in southern Oregon. \$25,983.		
4)	Yum! Restaurants Service Group Parking Lot Improvements (Arizona, Nevada, California, Oregon)	Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Yum! Restaurants Service Group Parking Lot Improvements. Mr. Seeds oversaw all aspects of the project which included pavement evaluations, the development o maintenance and repair designs, and the inspection of repair work for twenty restaurant parking lots in the western United States. \$133,568.		
5)	Siena Community Association Pavement Engineering and Management Support (Las Vegas, Nevada)	Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Siena Community Association Pavement Engineering and Management Support. This project is ongoing and has been performed on an annual basis since 2008. Mr. Seeds is responsible for overseeing all aspects of the project which includes conducting PCI surveys, providing construction oversight support, preparing bid packages, developing annual maintenance and repair programs, and developing long-term pavement management plans. \$22,708 (annually).		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Linda M. Pierce, Ph.D., P.E.		b. ROLE IN THIS CONTRACT Project Manager / Senior Engineer		c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 13		
d. FIRM NAME AND LOCATION (City and State) Applied Pavement Technology, Inc. (Urbana, IL)					
e. EDUCATION (DEGREE AND SPECIALIZATION) Ph.D., Civil Engineering, University of Washington, 2009 M.S., Civil Engineering, University of Washington, 1988 B.S., Civil Engineering, University of Washington, 1986			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) New Mexico Professional Engineer, Washington Professional Engineer		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Co-Author of the Transportation Research Board's Handbook for Pavement Design, Construction, and Management; Co-Author of the FHWA's Pavement Management Roadmap; Member of the Transportation Research Board					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Pavement and Materials Support for US-36 Design-Build Proposal Preparation (Denver, CO)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Pavement and Materials Support for US-36 Design-Build Proposal Preparation. APTech provided pavement and material expertise for the Design Teams' proposal for the US-36 Design-Build Project. Ms. Pierce oversaw all aspects of this project. \$9,900.		
2)	(1) TITLE AND LOCATION (City and State) Town of Gila Bend Pavement Management Implementation (Gila Bend, AZ)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Town of Gila Bend Pavement Management Implementation. Ms. Pierce developed and implemented a pavement management system which included defining the roadway network, conducting pavement condition assessment, developing a pavement management database, developing pavement performance prediction models, determining a maintenance and rehabilitation program, and assisting with the implementation of MicroPAVER and associated training for the Town staff. \$59,283.		
3)	(1) TITLE AND LOCATION (City and State) Assessment of Washington County, OR Pavement Preservation and Maintenance Program (Washington County, OR)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer for the Assessment of Washington County, OR Pavement Preservation and Maintenance Program. Assisted with a comprehensive review of the maintenance program and the development of the project report. \$77,872.		
4)	(1) TITLE AND LOCATION (City and State) I-64 Daniel Boone Bridge Design-Build Project for Missouri DOT (St. Louis County, MO)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer for the I-64 Daniel Boone Bridge Design-Build Project for Missouri DOT. Ms. Pierce provided pavement design and consulting services for a design-build bid project. The designs maximize performance while minimizing construction, maintenance, and rehabilitation costs and were prepared using AASHTO's Mechanistic-Empirical Pavement Design Guide (MEPDG). \$5,869.		
5)	(1) TITLE AND LOCATION (City and State) Development of Pavement Quality Index (PQI) and Determination of Remaining Life for Al Ain Municipality (Al Ain, United Arab Emirates)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for the Development of PQI and Determination of Remaining Life for Al Ain Municipality, United Arab Emirates. Investigated PQI relationship, calculated PQI, and conducted backcalculation and training. \$82,000.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Mark P. Gardner, P.E.		b. ROLE IN THIS CONTRACT Project Manager / Senior Engineer		c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 2		
d. FIRM NAME AND LOCATION (City and State) Applied Pavement Technology, Inc. (Austin, TX)					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering, Texas A&M University, 1982			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Texas Professional Engineer		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Co-Author of the FHWA's Local Calibration of the MEPDG Using Pavement Management Systems; Member of the Transportation Research Board; Recipient of the National Highway Institute Instructor of Excellence Award					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Assessment of Washington County, OR Pavement Preservation and Maintenance Program (Washington County, OR)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Assessment of Washington County, OR Pavement Preservation and Maintenance Program. Mr. Gardner was responsible for overseeing the day-to-day activities of a comprehensive review of the maintenance program and comparison with industry practices. \$77,872.			
2)	(1) TITLE AND LOCATION (City and State) Line 6B Haul Road Evaluation (Michigan and Indiana)	(2) Year Completed	
		Professional Services	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for Line 6B 2013 Haul Road Evaluation. Project in process with an anticipated completion date of 2014. Mr. Gardner is responsible for overseeing the evaluation of the impact of an energy company's heavy equipment on pavement sections during the construction of a pipeline, through the collection and analysis of pre- and post-construction condition data. \$421,700.			
3)	(1) TITLE AND LOCATION (City and State) I-81 Staunton South Turnkey Asset Maintenance Pavement Evaluation (Staunton, VA)	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the I-81 Staunton South Turnkey Asset Maintenance Pavement Evaluation. Mr. Gardner is responsible for records review, site evaluation, and recommending potential repair strategies. \$22,735.			
4)	(1) TITLE AND LOCATION (City and State) NCHRP 20-24(37)J Measuring Performance Among State DOTs: Sharing Good Practices - Pavement Structural Health (Nationwide)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer for the NCHRP 20-24(37)J Measuring Performance Among State DOTs: Sharing Good Practices - Pavement Structural Health. Mr. Gardner is assisted with the literature review, analysis of data, identification of exemplary practices, and development of implementation activities.			
5)	(1) TITLE AND LOCATION (City and State) Development of Pavement Quality Index (PQI) and Determination of Remaining Life for Al Ain Municipality (Al Ain, United Arab Emirates)	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Development of PQI and Determination of Remaining Life for Al Ain Municipality, United Arab Emirates. Responsible for establishing a PQI relationship and calculating PQI values using FWD, traffic, International Roughness Index (IRI), and PCI data provided by Engineering Consultants International LTD (ECIL). \$82,000.			

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REVISED - Attachment I – General Qualifications**

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Arizona Statewide APMS Update		
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Arizona DOT, Aeronautics Group	\$1,179,139	\$625,656

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

In 2000, Applied Pavement Technology, Inc. (APTech) established the Arizona airport pavement management system (APMS) for the Arizona Department of Transportation (ADOT) Aeronautics Group to provide them with a tool to proactively manage the pavement infrastructure at fifty three Arizona airports (the system now includes sixty-six airports).

The initial study performed in 2000 indicated that state-funding levels were insufficient to sponsor all necessary pavement maintenance and rehabilitation (M&R) projects. Based on the results of the pavement management study conducted by APTech, the Aeronautics Group initiated the Airport Pavement Preservation Program (APPP) (recipient of the Arizona State Quality Award). The APPP allows the state to make the best use of its limited budget by funding those work types that have historically proven to provide the most benefit per dollar expended. Because it is a state-level program, the Aeronautics Group can provide airports with funding for crack sealing, slurry seals, thin overlays, and concrete restoration. This is especially important for smaller facilities or those located in sparsely-populated areas which could not otherwise afford extensive maintenance efforts.

Due to ADOT's satisfaction with APTech's work, the Aeronautics Group retained APTech to update its APMS again in 2003, 2006, 2010, and 2013 to 2014. During these projects, APTech updated the systems inventory and maps, and conducted pavement inspections using the PCI methodology. An 8-year plan for pavement projects, a statewide report, individual airport reports, an APMS procedures manual, and an executive summary were also produced. During the 2010 project APTech also developed an Interactive Data Exchange Application (IDEA) that is accessed via ADOT's web page. This has greatly facilitated the access and use of the pavement management information. To view the program, please visit: http://mpd.azdot.gov/MPD/Airport_Development/APTech_DAP/index.html. In addition, a training course on the PCI procedure and the MicroPAVER™ pavement management software was conducted.

During the ongoing 2013 to 2014 project, the APMS is being expanded to include the Tribal airports. In addition, the 2013 to 2014 project includes testing using APTech's heavy weight deflectometer (HWD) and the analysis of the HWD data to determine the structural condition of the pavements and to calculate Pavement Classification Numbers (PCNs). To supplement this effort, a coring program is also underway.

The APMS and the APPP have been highly successful, as evidenced by its receipt of the 2011 National Association of State Aviation Officials (NASAO) Most Innovative State Program Award. The Aeronautics Group is now able to proactively manage the pavement infrastructure at airports around the state with software that can help to identify pavement-related needs and develop prioritized lists of pavement-related projects. Individual airports have reported that it is much easier to plan ahead for pavement M&R using the results of the APMS.

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<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Pavement and Materials Support for US-36 Design-Build Proposal Preparation	2013	
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Shannon & Wilson, Inc.	\$12,754	\$9,900

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

As a subconsultant for Shannon & Wilson, Inc., Applied Pavement Technology, Inc. (APTech) provided pavement and material expertise for the Design Teams' (comprised of Shannon & Wilson, Atkins, Kiewit, and Isolux as the concessionaire) proposal for this Colorado Department of Transportation (DOT) and Colorado High Performance Transportation Enterprise Public-Private Partnership project.

APTech was responsible for the evaluation and design of alternative pavement sections using the American Association of State Highway and Transportation Officials (AASHTO) Guide for Design of Pavement Structures (1993) and the AASHTO Mechanistic-Empirical Pavement Design Guide—Manual of Practice (2008). APTech was also responsible for developing and reviewing applicable portions of the project proposal, as well as responding to Design Team and Colorado DOT requests.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Douglas County Forensic Pavement Analysis	2013	
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Douglas County Engineering	\$88,721	\$88,721

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

In 2006, the Douglas County Department of Public Works selected a contractor to construct two new street segments on Chambers Road and West Mainstreet in Parker, Colorado. In 2008, personnel from both Douglas County and the Town of Parker observed that significant stripping and “rapid deterioration” were occurring in the top hot-mix asphalt (HMA) layer. After more sampling, testing, and negotiations between the County and Contractor, an agreement was reached to remove and replace certain portions of both Chambers Road and Mainstreet under the original performance bond and to extend the performance bond through May 1, 2012. In April 2012, before the end of the extended warranty, Douglas County completed another pavement evaluation, and noted the presence of stripping, cracking, raveling, and segregation. In October 2012, Douglas County contracted with Applied Pavement Technology, Inc. (APTech) to inspect the streets, identify the cause(s) of the observed distresses, and make appropriate recommendations for the rehabilitation of both streets.

APTech conducted a records review, pavement condition index (PCI) survey, materials sampling and lab testing to evaluate pavement conditions on Chambers Road., Mainstreet, and Hilltop Road (for comparison purposes). APTech used the collected data to develop recommendations for repairs in accordance with the terms of the County’s agreement with their contractor.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
FHWA Sustainable Pavements Program IDIQ		
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Federal Highway Administration	\$3,868,432	\$1,434,914

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

In September 2010, the Federal Highway Administration (FHWA) launched the Sustainable Pavements program, a major initiative with the overarching goal of advancing the knowledge and implementation of sustainability considerations in pavements and pavement materials. Applied Pavement Technology, Inc. (APTech) was awarded an Indefinite Delivery Indefinite Quantity (IDIQ) contract. This contract allows APTech to work on multiple tasks to meet the needs of the program as they arise. This project is ongoing.

One of the first activities of the Sustainable Pavements program was to establish a Sustainable Pavements Technical Working Group (SP TWG) to provide technical input to the FHWA—specific to sustainability and environmental aspects of pavements and materials—and to serve as a forum for information sharing and exchange. The SP TWG is comprised of twenty representatives from key stakeholder groups, including federal and state government, academia, industry, and research institutions. APTech was selected to provide organization, coordination, and facilitation to the SP TWG. APTech is responsible for making all arrangements for meeting and hotel rooms, travel to and from the meeting for TWG members, taking and disseminating meeting notes, and travel reimbursement for speakers and TWG members from state highway agencies and academia. A contingent of more than 125 “friends” of the SP TWG is maintained and kept apprised of all activities. The meetings are held twice a year and are used by the FHWA and others to help move forward with sustainability-related initiatives.

In order to promote and encourage the use of more sustainable practices, the FHWA awarded Applied Pavement Technology, Inc. (APTech) a task order in 2012 to develop a clear, concise, and user-friendly guideline document on recommended practices for the design, construction, and rehabilitation of sustainable pavement systems (including both flexible and rigid pavement structures). The guideline is an approximate 200 to 220 page document that covers overall sustainability considerations, materials, flexible pavements, rigid pavements, and sustainability assessment procedures. It is being laid out to mirror the life cycle of a pavement, beginning with an introduction of sustainability concepts, moving on to discuss sustainable materials, and then describing key aspects of the pavement life cycle and ways to incorporate sustainability considerations at each stage. The FHWA plans to distribute the document to interested parties by making the document available at national and international conferences, technical workshops, and other meetings.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> Pavement Testing and Evaluation Services for the City of Urbana, Illinois	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER City of Urbana Public Works	d. DOLLAR AMOUNT OF PROJECT \$46,759	e. TOTAL COST OF PROJECT \$46,759

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The City of Urbana, Illinois recognized that several sections of their pavement network had deteriorated to significant levels and were in need of evaluation to determine what pavement rehabilitation measures were needed. The City selected Applied Pavement Technology, Inc. (APTech) to conduct the testing and evaluation of sections of Race Street, Washington Street, Broadway Avenue, Illinois Street, and Lincoln Avenue to obtain existing pavement layer information and assess the structural capacity.

As part of the evaluation, APTech conducted a records review, falling weight deflectometer (FWD) testing, pavement condition index (PCI) surveys, and coring. Because of the significantly deteriorated conditions of the Race Street and Lincoln Avenue sections, additional analysis work was performed on these roads, consisting of traffic forecasting, rehabilitation design development (identification of alternatives, rehabilitation thickness design), cost analysis of design alternatives, and selection of the preferred design alternative. The test results were summarized in a report and analyzed to make recommendations regarding pavement rehabilitation alternatives, pavement improvement, and design options for each of the pavement sections. Factors such as initial costs, future maintenance, and long-term traffic forecasts were used to help determine the recommended design alternatives.

6. ADDITIONAL INFORMATION

a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. (ATTACH ADDITIONAL SHEETS AS NEEDED.)

APTech owns and operates testing equipment used as part of its pavement evaluation and construction inspection services. For example, APTech uses its Dynatest 8081 heavyweight model falling weight deflectometer (FWD), a nondestructive testing device, in both the routine and specialized testing of airfield and highway pavements. This state-of-the-art device is capable of applying loadings to pavement that are similar in magnitude and duration to those produced by moving wheel loads, including those of even the heaviest aircraft. FWD testing allows for the evaluation of multiple locations in a short period of time without disturbing the pavement structure. APTech also owns and operates a trailer-mounted material sampling device that can be used to obtain core and auger samples of the pavement and subsurface layers. The coring apparatus is applicable for both hot-mix asphalt (HMA) and portland cement concrete (PCC) surfaced pavements. Using diamond-tipped core barrels of various sizes, the device can obtain core samples up to 24 inches long and with diameters ranging from 3 to 12 inches. Samples obtained by the device can be tested in a number of ways to determine layer thickness, unit weight, strength, stiffness, and other intrinsic material properties. The auger apparatus provides a means of obtaining samples of all unbound layer materials that exist below the pavement surface, up to a depth of 10 feet. Tests can then be performed on the extracted samples to determine moisture content, gradation, densities, CBRs, and overall material classification. Additionally, APTech owns a drop cone penetrometer (DCP), which is a simple device used to obtain in situ subgrade strength measurements in conjunction with a coring program.

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	83
b. Percentage of Total Work Attributable to Non-Government Work:	17

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: David G. Peshkin

Date: 11/27/2013

Name: David G. Peshkin

Title: Vice President