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May 5, 2008

Mr. John Bardwell, Contracting Officer
U. S. Department of Transportation
Federal Transit Administration
1200 New Jersey Ave, SE
Washington, DC 20590

Subject: Project Management Oversight Program
Solicitation Number DTFT60-08-R000
Quandel Consultants, LLC Capabilities Statement

Dear Mr. Bardwell:

Quandel Consultants, LLC is pleased to present our capabilities statement in response to your solicitation for Project Management Oversight contractors. Quandel Consultants is a newly organized firm whose principals offer decades of experience in engineering and construction markets. We offer skills in project management, planning, design engineering, and construction management. Our expertise and focus are on passenger rail and transit markets.

Quandel Consultants is a small business with great experience in the industry. Over the years we have developed excellent relationships with a host of skilled practitioners in specific transit disciplines. We seek to put together a team that provides a deep and broad skill set and competitive costs to meet the objectives set by the FTA for a best value procurement.

Recently, we have been successful in winning projects with New York State Department of Transportation, Florida Department of Transportation and the Rocky Mountain Rail Authority, evidence that we offer exceptional capabilities.

Historically, our staff has been engaged in a significant number of transportation projects including the following:

Commuter Rail and Transit Projects

- Transport 2020 Conceptual Design/Environmental Impact Statement/ New Starts Application, City of Madison, Dane County, and the Wisconsin Department of Transportation
- Replacement/Upgrades of Signal and Communications-Brown Line, Chicago Transit Authority
- Metra Rock Island Track and Signal Improvements, Chicago, IL, Commuter Rail Division of the Regional Transportation Authority
- Ann Arbor to Downtown Detroit Alternative Analysis/ Draft Environmental Impact Statement Transit Study, Southeast Michigan Council of Governments
- Lansing to Detroit Commuter Rail Study, Capital Area Transportation Authority
- Kenosha-Racine- Milwaukee Alternative Analysis, Draft Environmental Impact Statement, Southeastern Wisconsin Regional Planning Commission



- Hiawatha Corridor Light Rail Transit System Preliminary Engineering and Design Build Procurement, Cities of St Paul and Minneapolis, Minnesota
- New Bedford/Fall River Rail Project , Massachusetts Bay Transportation Authority
- Street Running Light Rail Transit and Trolley Study, City of Madison, Wisconsin
- Southtown Corridor Light Rail Alternative Analysis, Kansas City, Missouri
- Maintenance Engineering Consultancy, Chicago Transit Authority
- O'Hare Airport Transit System Vehicle Overhaul Options Analysis, City of Chicago
- Jakarta Mass Rapid Transit (MRT) Conceptual Design for System Components, Jakarta, Indonesia
- Tunnel Ventilation Barrier System Design, Washington Metropolitan Transit Authority (WMATA)
- Central Area Circulator Light Rail Transit System Design, City of Chicago, Illinois
- Tioga Substation Design, Southeastern Pennsylvania Transportation Authority (SEPTA)
- Seoul Metropolitan Subway Corporation Lines 3 and 4 Traction Power System Design and Supply, Seoul, Korea

High Speed & Intercity Rail Projects

- Madison to Milwaukee High Speed Rail Connection, Wisconsin Department of Transportation
- Chicago to Milwaukee to Madison Rail Capacity, Conceptual Engineering/ Environmental Assessment, Wisconsin Department of Transportation
- Detroit to Chicago High Speed Rail Corridor Program Study, Amtrak, Michigan and Indiana Departments of Transportation
- Midwest Regional Rail Initiative for the Nine States of the Midwest Regional Rail System
- Tampa to Orlando High Speed Rail Preliminary Engineering/ Environmental Impact Statement , Florida High Speed Rail Authority
- Orlando to Miami High Speed Rail Study, Florida High Speed Rail Authority
- California High Speed Rail Corridor Evaluation, California High Speed Rail Authority
- San Diego-Los Angeles High Speed Rail Conceptual Design/Environmental Impact Studies, California High Speed Rail Authority
- Ohio & Lake Erie Regional Rail-Cleveland Hub Study, Ohio Rail Development Commission
- Ohio Passenger Rail Corridor Feasibility Study Pittsburgh-Columbus-Toledo-Ft. Wayne, Ohio Rail Development Commission
- Northern Indiana/Northwestern Ohio Routing Study , Indiana Department of Transportation
- Gary Alternative Rail Study, Indiana Department of Transportation
- State Rail Plan 2020, Intercity Passenger Rail Corridors Feasibility Study, Wisconsin Department of Transportation
- Milwaukee to Green Bay Passenger Rail Alternatives Analysis, Wisconsin Department of Transportation
- Kansas City to St Louis Inspection and Infrastructure Analysis of the Union Pacific Railroad Right-of-Way , Midwest Regional Rail System
- Tri-State II High Speed Rail Feasibility Study, Wisconsin and Minnesota Departments of Transportation
- Rochester Rail Link Feasibility Study , Minnesota Department of Transportation



- Minnesota Interstate Rail Study, Minnesota Department of Transportation
- West Detroit Preliminary Engineering Study, Amtrak
- Statewide Railroad Passenger Feasibility Study, Kansas Department of Transportation
- Passenger Rail Intermodal Facility, City of Dearborn and Michigan Department of Transportation

Freight Rail Projects

- Chicago Regional Environmental and Transportation Efficiency (CREATE) Program Base Mapping, Association of American Railroads
- Automated Train Management System, Lockheed Martin, Australian Rail Track Corporation, Sydney, Australia
- Evaluation of Track Maintenance Costs for High Speed Rail Systems and Development of Maintenance Cost Matrix, Federal Railroad Administration
- Dane County Regional Airport Runway Safety Area Railroad Relocation, Dane County Airport Authority and Wisconsin Department of Transportation
- Ambassador Bridge Access Improvements, Canadian Pacific /Conrail Railroad Bridge, Michigan Department of Transportation
- Dark to Positive Train Control Study, Canadian Pacific Railway, Wisconsin Department of Transportation
- Camas Prairie Railnet Bridge Maintenance Cost Analysis/Surface Transportation Board (STB) Abandonment Application, Idaho and Washington Departments of Transportation
- Positive Train Control System Developer/Integrator Program, Lockheed Martin, Illinois Department of Transportation and the Federal Railroad Administration
- Signal Design Services, Union Pacific Railroad Company
- Powder River Basin Expansion Conceptual Design/Surface Transportation Board Application Support, South Dakota, Wyoming, and Minnesota, DM&E Railroad
- Tongue River Railroad Supplemental Environmental Impact Statement, Montana

The key personnel for Quandel Consultants, LLC include Charles H. Quandel, P.E. principal and chief executive officer and W. Robert Moore, P.E., principal and chief engineer. Brief resumes of each are as follows:

Charles H. Quandel is President and Chief Executive Officer of Quandel Consultants, LLC. Charlie has more than 30 years of experience as a professional engineer with the last 20 years dedicated to the development of high speed/intercity ground transportation systems, both steel-wheel/steel-rail and magnetic levitation, and transit systems in the Midwest. He has served as the project manager or project engineer on more than fifteen high speed ground transportation programs including the Midwest Regional Rail Initiative, Florida High Speed Rail, Ohio Hub, and California. He has served as project manager or project engineer on multiple commuter rail and mass transit planning and engineering projects in Illinois, Wisconsin, and Michigan. He has served as Chairperson of the High Speed Ground Transportation Association and is involved in passenger rail issues with Transportation Research Board, American Public Transportation Association, and American Society of Mechanical Engineers. He is a licensed professional engineer in Pennsylvania, Illinois, Wisconsin, Michigan, Ohio, New York, Maryland, Florida, Kentucky, Delaware, Colorado, Arizona, and Maine,

W. Robert (Bob) Moore is Vice President and Chief Engineer/ Rail and Transit for Quandel Consultants, LLC. Bob is licensed as a professional engineer in the State of Illinois. He has more than 25 years experience in the planning and engineering for commuter rail, light rail, and heavy rail mass transit and freight rail systems. He has served as project



manager or project engineer for a variety of recent commuter rail transit projects resulting in FTA New Starts applications including Transport 2020 for the City of Madison, WI; Kenosha-Racine-Milwaukee for SEWRPC; and Ann Arbor-Detroit for SEMCOG. He has performed in engineering/project management roles for transit design and construction projects for the Hiawatha LRT system in Minneapolis, Central Area Circulator, CTA and Metra in Chicago; SEPTA in Philadelphia and Seoul Metropolitan Subway Corp in Seoul, Korea. He has written several technical articles including "The Influence of Policy and Operating Decisions on Systems Elements of the Chicago Circulator"; "Corridor Design Issues for the Florida High Speed Rail"; and "Lidar Data Acquisition and Mapping for Chicago CREATE Program".

We appreciate the opportunity to compete in this procurement and look forward to serving the FTA in Project Management Oversight assignment.

Thank you.

Very truly yours,
Quandel Consultants, LLC

Charles H. Quandel, PE
Principal