



STATEMENT OF QUALIFICATIONS SAFETY AND SECURITY SOLUTIONS



APRIL 2016





FIRM PROFILE

Established in 2008, TSSS is a comprehensive consulting firm specializing in strategic support to ensure safe and secure projects, systems and operating environments for public transit, construction and homeland security programs. Leveraging decades of safety, security, cyber security, quality assurance, project management, and information technology experience, TSSS experts identify project risks and develop tailored solutions to diminish those risks to a practical level. TSSS has a variety of experts with Board Certified Safety Professional (CSP), World Safety Organization Certified Safety/Security Director (WSO-CSSD), and TSI Transit Safety & Security Program (TSSP) certifications, among others.

TSSS is a Certified MBE/DBE/SBE in Alabama, California, Colorado, District of Columbia, Georgia, Illinois, Louisiana, Maryland, Massachusetts, Michigan, Nevada, New Jersey, New York, North Carolina, Oregon, Tennessee, Texas, Utah and Washington.

TSSS headquarters is in Richmond, TX with satellite offices in Chicago, IL, Denver, CO, San Diego, CA and Seattle, WA.



OUR SOLUTIONS

TSSS provides a full range of services to help mitigate risks while maximizing safety. No matter where you are in your project's life cycle, TSSS will help contractors and employees think safe, act safe and be safe. Our solutions include:

- Safety & Security Engineering
- Cyber Security Assessments & IT Solutions
- Transit Safety & Security Certification Development
- Track Safety Inspections
- Independent Accident Investigation & Report Development
- Development of Critical Infrastructure Protection Plans
- Independent Construction Safety Audits
- First Aid, CPR & AED Training
- Development of Hazard, Identification, Analysis & Resolution Programs
- Integrated Security System Planning
- System Safety, Security & Quality Audits
- Assistance with OSHA Compliance Program Development
- FTA/FRA Safety & Security Plan Development (SSCP, SSPP, SSMP, SSP)
- Safety Critical Project Management & Scheduling
- Threat & Vulnerability Assessments
- Transit Security Guard Services





TRANSIT PROJECTS

TSSS was founded to serve the transit industry. Because of this focus, we have earned the reputation as technical experts on transit safety and security issues throughout the country. Our professionals utilize their hands-on experience during all stages of the project lifecycle, from the environmental impact study to revenue service, achieving safe and sustainable results.

TSSS has successfully executed the startup of numerous transit projects ranging in size and complexity for a variety of public and private authorities. We have investigated root causes of incidents within these systems to include operating deficiencies, security breaches and safety violations. TSSS professionals utilize innovative solutions and creative techniques to mitigate risks.

TSSS is dedicated to our active involvement within the transit industry so our clients have access to the latest information and real-time knowledge of issues and new regulations.



CONSTRUCTION PROJECTS



TSSS understands that quality control and safety are increasingly important concerns for project managers. Defects or failures in constructed facilities often result in high costs, re-construction, impaired operations, project delays, and may result in personal injuries or fatalities. Our experts work closely with the project team during the planning and design phases to ensure that safety and security concerns are addressed prior to construction. This helps project teams mitigate risks and reduce the occurrence of accidents on the job site.

TSSS has provided construction safety programs, guidance, training and inspection services for several large construction projects in various industries. We frequently develop construction safety plans for our clients and effectively implement those plans in a quality manner to ensure the safety of contractors and the public.

TSSS will keep your construction site safe while remaining on time and on budget.



JEAN CLAUDE AUREL, JR., ASP, CSP, WSO-CSSD

Mr. Aurel has more than 15 years of diverse engineering and safety management experience, including hazard analysis and safety & security certification implementation. He has provided design review and project management experience on several heavy, light & commuter rail projects. He has also performed project management and analyses on bus and ferry projects. His experience includes numerous design-build mass transit projects as well as numerous internal safety audits of bus and rail systems.

Mr. Aurel served in various safety roles on several notable projects which include the Metro-Solutions rail extension in Houston, TX; the Red Line reconstruction project in Chicago, IL; the Tide light rail project in Hampton Roads, VA and the Eagle P3 and the North Metro projects in Denver, CO. Mr. Aurel has served on the TCRP A-35 Safety Culture Committee in which a report was developed to assist the transit industry in understanding and developing a good safety culture within their respective organizations. Mr. Aurel is certified to teach First Aid, CPR and AED classes thru the National Safety Council. He is also a certified Operation LifeSaver instructor as well as an instructor in National Transit Institute's Terrorist Activity Recognition and Reaction course.



Title: President & CEO

Years Experience: 15

Certifications: ASP, CSP,
WSO-CSS, HSEEP

Education: MPA - Public Admin.,
BS - Industrial Technology

Professional Associations:
APTA, ASSE, WSO

RACHEL L. DEEN

Ms. Deen has more than 13 years of experience in Information Technology Infrastructure, Project Management and Cyber Security. She is a technical leader, with hands-on expertise in infrastructure - computer servers, network technologies, data management - and creating facilities that influence dependable and scalable systems. She has built and moved data centers. She has managed project teams of systems administrators, database architects, network engineers, and end-user support specialists.

Ms. Deen has mastered technologies from operating systems to security, Storage Area Networks and VM's, to network administration and routing. She has assessed system susceptibility, gathered actionable analysis, reported dangers, and suggested security enhancements for various system infrastructures. Ms. Deen has instigated top-tier security processes and incident response policies to guard against burgeoning cyber risks. She is also a member of the Enterprise Cyber Security Working Committee for APTA.



Title: Vice President, Cyber
Security

Years Experience: 13

Education: MS - IT & Privacy
Law, MS - IT Project Mgt., BS -
Computer Science

Professional Associations:
APTA - ECSW Committee

SEBASTIAN DRAGU

Mr. Dragu brings more than 25 years of multidisciplinary experience in rail and bus transit safety and security, electrical engineering, fire protection, design review, safety certification management, implementation of system integration and commissioning plans and programs for rail projects, and proficiency in developing procedures for commencing safe rail operations. As a creative engineer, he boasts years of successful safety management initiatives in the transportation industry.

Mr. Dragu is skilled in the management of safety and security certification programs, including the development of specific certification plans and procedures for facilities, systems and vehicles. He is recognized for determining effective methods and solutions for complex engineering and safety problems, and for selecting the most efficient and economical answers to meet project goals and objectives. As a member of the American Public Transportation Association (APTA) Rail Transit Standards Policy Committee, Mr. Dragu participated in the development of the following standards: NFPA 130 - Standard for Fixed Guideway Transit and Passenger Rail Systems and the Manual of Standards and Recommended Practices for Rail Transit Systems - Rail Grade Crossing Practices.



Title: Vice President, Safety

Years Experience: 25

Education: BS - Electrical Eng.

Professional Associations:
APTA - Rail Transit Standards Policy Committee

B. EUGENE (GENE) VALENTINE

Mr. Valentine serves as Business Manager at TSSS, and comes from the telecommunications field with over 36 years of multi-disciplinary experience in Public Safety, Project Management, Service Management, and Service Provisioning and Maintenance. He led teams responsible for the engineering, implementation, and administration of Enhanced 9-1-1 (E9-1-1) Service and systems used at more than 800 Public Safety 9-1-1 Centers across six states over the last 18 years. He has also directed teams responsible for the provisioning and maintenance of voice and data communications hardware and services.

His experience in leading high-performance teams helps TSSS identify safety and security-related issues, aids in the development of solutions using industry-accredited safety and security processes, and ensures that our project management team meets customer expectations and timelines. He also provides leadership to the Administrative staff, ensuring that project tracking, client invoicing, customer correspondence, maintenance of insurance, and all other regulatory and administrative functions are addressed.



Title: Business Manager

Years Experience: 36

Certifications: ER Number Professional (ERP) - *inactive*

Education: BA - Economics

Professional Associations:
NENA, NOBLE (former member)



EAGLE P3 COMMUTER RAIL

REGIONAL TRANSPORTATION DISTRICT

TSSS is a subconsultant to the Denver Transit Partners (DTP) team for the Eagle P3 Commuter Rail Project. TSSS works alongside other consultants such as HDR, Balfour Beatty, ACI, XoRail, Fluor and others, which comprise the DTP team. TSSS is responsible for developing the System Safety Program Plan (SSPP), System Security Plan (SSP), the Safety & Security Certification Plan (SSCP), the System Safety Management Plan (SSMP), as well as the Hazard Identification Analysis and Resolution Process.

TSSS leads the effort to ensure the commuter rail network, which consists of 3 rail corridors, 36 miles of new track, and 16 stations, is certified to be safe and secure for revenue service. TSSS is also responsible for safety and security certification of the 56 commuter rail vehicles procured from Hyundai Rotem. TSSS has two team members working on the project with a defined scope worth approximately \$3.2 million.

HIGHLIGHTS

Project Location: Denver, CO

Project Cost/Fees: \$2.2B / \$3.2M

Completion Date: Est. July 2016

Scope of Services:

- System Safety & Security Consulting
- Safety & Security Certification Program Development



HIGHLIGHTS

Project Location: Denver, CO

Project Cost/Fees: \$343M / \$2.5M

Completion Date: Est. Late 2017

Scope of Services:

- System Safety & Security Consulting
- Safety & Security Certification Program Development
- First Aid/CPR/AED Training



NORTH METRO RAIL LINE

REGIONAL TRANSPORTATION DISTRICT

TSSS is a subconsultant to the Graham - Balfour Beatty - Hamon Constructors Joint Venture and served as part of the proposal team for the North Metro Commuter Rail Project in Denver, CO that will run from Denver Union Station through Commerce City, Thornton and Northglenn to Highway 7 in North Adams County. TSSS is responsible for developing the System Safety Program Plan (SSPP), System Security Plan (SSP), the Safety & Security Certification Plan (SSCP), the System Safety Management Plan (SSMP) as well as the Hazard Identification Analysis and Resolution Process.

TSSS leads the effort to ensure the 18.5-mile and 8-station electric commuter rail line is certified to be safe and secure for revenue service. Currently, 12.5 miles and 6 stations from Union Station to 124th Avenue are under construction; the remainder will be built as funds become available. TSSS has three team members working on the project with a defined scope worth approximately \$2.5 million.





SOUTHEAST RAIL EXTENSION

REGIONAL TRANSPORTATION DISTRICT

The Southeast Rail Line includes 19.1 miles of the popular RTD light rail system. It extends from I-25/Broadway to Lincoln Avenue in Douglas County, with an additional connection along I-225 from I-25 to Parker Road. The RTD Board of Directors approved a \$140 million two-phased contract award to Balfour Beatty Infrastructure Inc. (BBII) to design and build the 2.3 mile-long Southeast Rail Extension from Lincoln to RidgeGate Parkway. Design began in fall 2015 with construction expected to start in spring 2016.

TSSS has several team members working on the project and is responsible for the overall direction of the safety & security certification program. This includes developing the System Safety Program Plan (SSPP), System Security Plan (SSP), the Safety & Security Certification Plan (SSCP), the System Safety Management Plan (SSMP) as well as the Hazard Identification Analysis and Resolution Process.

HIGHLIGHTS

Project Location: Denver, CO

Project Cost/Fees: \$140M / \$795,000

Completion Date: Est. 2019

Scope of Services:

- System Safety & Security Consulting
- Safety & Security Certification Program Development



HIGHLIGHTS

Project Location: Houston, TX

Project Fees: \$28,000

Completion Date: October 2015

Scope of Services:

- Paratransit Support Consulting
- Preliminary Safety Assessment
- Training Program Development

SAFETY SURVEY & TRAINING

MV TRANSPORTATION / HOUSTON METRO



MV Transportation, Inc. currently operates Metropolitan Transportation Authority of Harris County's (Houston Metro) paratransit services, METROLift. TSSS was recently selected by MV Transportation as a consultant to develop and implement a survey designed to measure the safety culture within the ranks of frontline employees. TSSS also developed a training course for supervisors. TSSS is responsible for the development and implementation of the following:

- Confidential Preliminary Assessment - Develop a computer-based blind employee survey of safety attitudes, awareness, knowledge and ideas for improvement
- Supervisor Safety Training Workshop





SYSTEM SAFETY CONSULTING

SOUND TRANSIT

Sound Transit provides bus, light rail and commuter train services for the City of Seattle and surrounding areas. TSSS is currently providing consulting services under two contracts No. RTA/QT 170-13 and No. RTA/QT 116-14 with a defined scope worth approximately \$135,000. The specific projects under these contracts include the 3.15-mile University Link, 4.3-mile Northgate Link, and 1.6-mile South Link light rail extension projects that are under construction and have a total project cost of \$4.4B.

TSSS is required to provide assessment/update of key safety program documents; create, review and provide consultation on various safety programs and processes; provide support in development and revision of safety related policies, manuals and procedures, and review and comment on facility designs; and provide consultation and assistance on all other safety related initiatives. TSSS also provides training to the engineering staff, as needed, to assist the project staff in understanding the complexities of safety certification.

HIGHLIGHTS

Project Location: Seattle, WA

Project Cost/Fees: \$4.4B / \$135,000

Completion Date: Est. Dec. 2016

Scope of Services:

- System Safety & Security Consulting
- Safety & Security Certification Program Development



HIGHLIGHTS

Project Location: Charlotte, NC

Project Fees: \$73,000

Completion Date: February 2014

Scope of Services:

- Rail Support Consulting
- System Assessment
- Training Program Development

RAIL SUPPORT & TRAINING

CHARLOTTE AREA TRANSIT SYSTEM

TSSS was a subconsultant to CH2MHILL and provided services to the Charlotte Area Transit System (CATS) in Charlotte, NC. CATS provides bus, light rail and paratransit services for the City of Charlotte and surrounding areas. The LYNX Blue Line was the Charlotte region's first light rail system, covering 9.6 miles and 15 stations. LYNX currently serves 15,000 riders on average each day and operates from I-485 at South Boulevard to Uptown Charlotte.

TSSS was responsible for providing support to the General Manager of Rail Operations by assessing the duties of the Rail Controllers, Rail Supervisors and Train Operators. TSSS took assessment results of the three positions and developed a report that illustrated areas of success and ones that required improvement. TSSS developed a training program for the areas that required improvements. TSSS had two team members working on the project with a defined scope worth approximately \$73,000.





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