

CITY OF TUCSON CONTACT

Maritza Felix, Senior Contract Officer 201 N Stone Avenue 6th Floor North Tucson, AZ 85701 520.837.4107 maritza.felix@tucsonaz.gov

CONTACT REGARDING THIS STATEMENT OF QUALIFICATIONS

Craig Baptista, Vice President - Facilities Division, West Region Bureau Veritas North America, Inc. 180 Promenade Circle, Suite 150 Sacramento, CA 95834 916.514.4516 (Office); craig.baptista@bureauveritas.com May 23, 2022

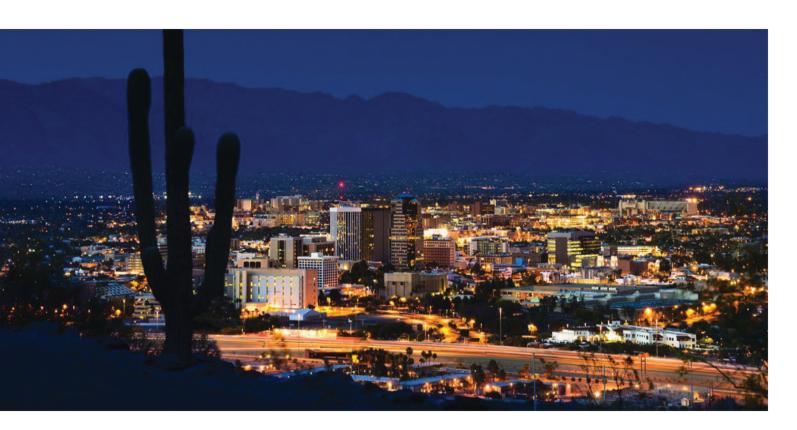


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BUREA

VEDITA

EXPERIENCE AND QUALIFICATIONS OF THE TEAM

The following pages contain resumes which exhibit the experience and qualifications of the key team members including licenses, registrations, and certifications applicable to the proposed work. Additionally, included with these resumes are copies of the proposed team member's licenses as it relates to not only work within the state of Arizona but outside the state as well.

Similar projects and contracts this team has provided services for are included in the *Firm Experience on Similar Projects* section of this proposal found on pages 90 - 95. The time commitment allocated to these projects and contracts fluctuates based upon the workload and needs of the client at any given time. A prominent added value proposition of working with BV is the firm's capacity to seamlessly adjust resources and personnel to specifically address client needs. This not only allows BV to provide services of the highest quality during times of increased workload but also helps clients save money during times of decreased service demand.

Education

M.B.A.

B.S., Business Management

Registrations/Certifications

Six Sigma Green Belt Certified

OSHA 30

United States Navy: Honorable Discharge

Tenure at BV

6+

Total Years of Experience

20+

Prior to joining Bureau Veritas, Craig served as Director of Operations and is a business professional experienced in leading multiple branch offices in various states. Craig has over 20 years of experience in the construction industry. He is results-oriented and has exceptional experience building and managing successful programs and relationships. He is a skilled communicator capable of articulating complex ideas in a concise and persuasive manner. Craig has proven experience as a facilitator of solutions for client problems and is a strategic thinker with the ability to translate vision into tactics. He is self-motivated, passionate and resourceful. Craig has expertise identifying client needs and is able to execute problems quickly by utilizing his professional business management skills. He is equally effective working independently or collaborating with others.

Select Project Experience

Craig has managed various projects as Director of Operations and successfully reduced operating expenses by 18% through implementation of a preventative maintenance program and establishment of a baseline repair cost matrix. He provided leadership, mentoring, direction and training for a 35 member Operations team that included Branch Managers, Project Managers, and other staff. He developed annual business plans, market strategies, operations and sales goals which resulted in year over year growth.

Craig has worked on various significant projects, including, but not limited to:

- Apple Campus II in Cupertino, CA
- Cal Trans Bay Bridge Project in Oakland, CA
- Tesla Gigafactory in Sparks, NV
- Souza Construction Lemoore Naval Air Station Project in Fresno, CA
- Advance Range Solution Fort Hunter Liggett in Jolon, CA
- Hensel Phelps Mule Creek Prison in Ione, CA

Vice President, Facilities - West Region / Principal-in-Charge

Bureau Veritas

2015 - Present

Serves as Vice President for the West Coast code compliance division. Manages over 50 employees throughout California, Arizona, Nevada, Washington, and Utah. Oversees plan review and inspection activities to ensure BV has ample resources to meet turnaround times and provide quick response to inspection requests. Works directly with plan review team to gain efficiencies in turnaround times. Effectively reduced the number of reviews by promoting direct contact with designers and municipalities to remedy code deficiencies during the first and second reviews, allowing our team to approve projects during the second submittal phase.

Education

UCLA Extension, Construction Management

Registrations/Certifications

ICC Certified:
Certified Building Official
CA Commercial Building Inspector
CA Residential Building Inspector
CALGreen Inspector
Certified Sustainability Professional

Building Inspector OSHA 10 and 30 hour certified, FEMA 100, 200, 700, & 800 Certified

Professional Affiliations

International Code Council (ICC): Code

Development Committee

ICC / CALBO Exam Development

Committee

Standard Consensus Committee

Member Elect - Building Officials

Membership Council

California Building Officials CALBO

Training Institute (CTI) Committee

National Green Building Standard

Consensus Committee

California Department of State

Architects - Member Disabled Access
for Electric Charging Vehicles Working

California Building Officials (CALBO)
County Building Officials Association of
California

Tenure at BV

1

Total Years of Experience

27-

Johnny has 27+ years of experience in the construction industry with a strong history of timely execution of large-scale initiatives involving many stakeholders. He is a seasoned leader having supervised teams of inspectors, project managers, architects, engineers, and designers with strengths in communication, management of customer relationships, strong budget oversight and control, and a deep knowledge of building, state, and local codes.

Select Project Experience

Director of Operations

Bureau Veritas North America, Inc.

July 2021 - Present

Manages over 50 employees throughout the Midwest and Northeast regions. Oversees plan review and inspection activities to ensure BV has ample resources to meet turnaround times and provide quick response to inspection requests. Works directly with plan review team to gain efficiencies in turnaround times.

Building Official/Senior Plans Examiner

Private Sector

February 2020 - July 2021

Participated in the development and administration of the Divisions goals, objectives, and procedures. Formulated and applied uniform policies and standards for the Building Divisions programs. Researched regulations, procedures, and technical materials relating to building codes, state laws and enforcement.

Assistant Director of Construction, Codes and Standards

Private Sector

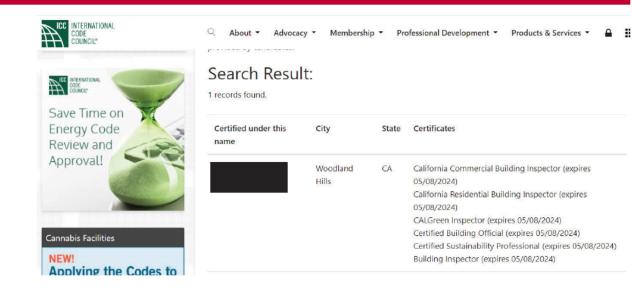
2018 - 2019

Managed the construction, renovation, and capital improvements process for projects ensuring on budget and timely completion. Identified capital expenditures for existing portfolio and new acquisition properties and prepare budgets and schedules.

Building Official

Town of Truckee; Town of Mammoth Lakes; Mammoth Lakes Fire Department 2003 – 2018

Served as the CBO for the Town of Truckee from 2013–2018. Was responsible for daily activity within the Building Division including permit issuance, plan check, inspections, and code compliance activity. From 2003–2013 served as the Assistant BO/Solid Waste Coordinator for the Town of Mammoth Lakes where responsibilities included oversight of permit issuance, plan check, and inspection as well as supervision of the Building Division Budget and Code Compliance Workgroup coordination. Furthermore, was an Engineer with the Mammoth Lakes Fire Department from 2005–2013.



Education

A.A., General Studies

Leo has 28+ years of experience as a manager, inspector, plan reviewer, code enforcement supervisor, and building official. With expansive industry knowledge and strong customer relations skills, Leo is a valuable member to any professional team.

Registrations/Certifications

ICC Certified:

Building Official

Building Plans Examiner

Building Inspector

Electrical Inspector

Plumbing Inspector

Mechanical Inspector

Post Disaster Evaluator

Green Building Professional

Green Point Rater

Tenure at BV

3+

Total Years of Experience

28+

Select Project Experience

Vice President of Business Development and QA/QC Manager

Bureau Veritas North America, Inc.

2018 - Present

Responsible for QA/QC oversight and provides support to business unit managers throughout the region. Was instrumental in establishing and managing operations of new Bureau Veritas office in Santa Rosa, CA in support of the City of Santa Rosa's fire recovery efforts. Led efforts to expand BV personnel and additional clients and provided residential and commercial building inspection services.

Assistant City Administrator / Manager

City of Oroville

February 2020 - September 2020

Primary responsibility was management of public works, building, planning and code enforcement for the City of Oroville.

Community Development Director / Building Official

City of Chico

Served in a multi-faceted role overseeing planning and execution of inspections for residential and commercial construction projects. Provided leadership and supervision for the department. Assisted with preparing, managing, and allocating department budget.

Building Inspector

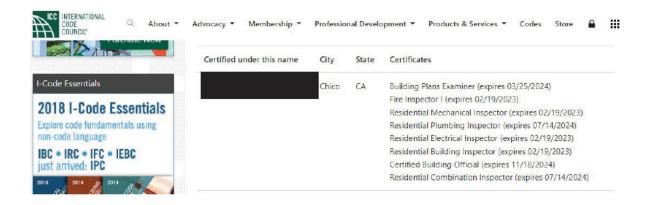
City of San Rafael

Conducted commercial plan review and resale inspections. Also performed services as a code enforcement supervisor.

Fire Inspector/Building Official

City of St. Helena

Performed plan review and building inspection services. Worked on ordinance developments. Served as project manager for the Carnegie Library renovation.



Education

A.A., Applied Science

Registrations/Certifications

ICC Certified:

Certified Building Official

Fire Inspector II

Accessibility Inspector/Plans Examiner

Electrical Inspector

Building Code Official

Permit Technician

Mechanical Inspector

Building Inspector

Building Plans Examiner

Permit Specialist

Building Code Specialist

LEED Accredited Professional

Certified One-and Two-Family

Electrical Inspector (I.A.E.I.)

Certification of Competence (B.O.C.A.)

Professional Affiliations

ICC Education Committee

ICC Educator of the Year

Arizona Building Officials (AZBO)

Arizona Chapter of ICBO

Education Committee Arizona

Arizona Building Officials

Arizona Building Official of the

Year Award: 2000, 2002, 2003, 2005

Arizona Building Officials Education

Committee

Liaison to Maricopa County Permit Technician Committee

ICBO Permit Technician Exam

Development Committee

ICC Permit Technician Exam

Development Committee Member

ICBO Education Committee

ICBO/ICC Legacy Code Committee

Phoenix Regional Plan Review Program

Total Years of Experience

40+

has over 40+ years of experience within the industry. Throughout his career, Steven has worked different positions as well as earned certifications and awards within different organizations. Steven provides vital insight to any project he works on and is a great team player to bring onto any project.

Select Project Experience

Arizona Regional Director

Private Company

2018 - 2020

Managed Arizona office for a building code consulting company.

Chief Building Official

City of Folsom

2009 - 2017

Responsibilities included direction and coordination of the Building Safety and Code Enforcement Divisions; preparation and administration of annual budget; coordination and adoption of building codes; plan review and occasional inspection of commercial and residential structures; meetings and correspondence as necessary; City Council presentations; supervision and evaluation of Building Safety and Code Enforcement employees.

Director of Code Compliance Services

Bureau Veritas

2006 - 2009

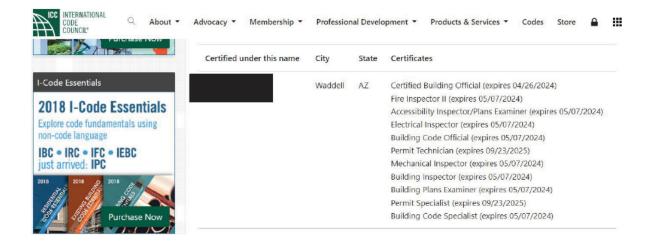
Responsibilities included management of Arizona/Nevada Division of code consulting company including marketing, budget management, report preparation, employee evaluations and project management.

Senior Technical Staff

International Code Council

2006

Responsibilities in Product Development included creating and updating technical documents, video scripts and code-related support references including authoring a Permit Technician Study Companion.



Education

M.S., Civil Engineering B.S., Civil Engineering

Registrations/Certifications

Registered Professional Engineer:

CA, #C42263

NV, #CE8867

Tenure at BV

2+

Total Years of Experience

28+

has 28+ years of experience as a civil engineer. His skills include structural analysis, concrete masonry, and steel design. Projects he has been involved with are the single story timber structure at Bank of America, single story concrete tilt-up building at Tech Plaza Office/Warehouse, steel framed structure at the Valley Hospital, and four levels of post-tensioned concrete structure. Highly knowledgeable and skilled, Tin-Kei is a valuable member to any professional team.

Select Project Experience

Civil Plan Review Engineer

Bureau Veritas North America, Inc.

2020 - Present

Provides specialized civil engineering service, engineering plan review, construction inspection, and construction management services for jurisdictions and projects.

Principal

Private Sector

1993 - Present

Oversees projects from beginning to the construction completion. Performs structural designs for multi-story office buildings, hospitals, residential and commercial buildings, and garages using concrete, retaining walls using concrete, timber and masonry.

Project Engineer

L.R. Nelson Consulting Engineers

1990 - 1993

Was involved in structural designs consisting of multi-story office buildings and garages using post-tensioned concrete, hospitals using steel moment frames, retaining walls using concrete and masonry, residential and commercial buildings using timber and masonry.

Project Engineer

Design Engineering, Associate of Nevada

1985 - 1990

Performed structural analysis and design of steel, concrete, masonry, and timber structures that resist and lateral loads.







BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

AUGUST 21, 1987
EXPIRATION DATE
MARCH 31, 2024
CURRENT DATE / TIME
MAY 16, 2022
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LICENSING DETAILS FOR: 42263



LAND SURVEYORS

Engineers & Land Surveyors

Statutes & Regulations

Public

Licensing

Licensee Status : ACTIVE

Expiration Date : June 30, 2023

Discipline(s): CE

Disciplinary Action: No

City: Las Vegas

State: NV

Education

B.S., Civil Engineering

Registrations/Certifications

Registered Professional Civil Engineer: CA, NV

Professional Civil Engineer, Philippines

Professional Affiliations

Board of Professional Engineers

Tenure at BV

>1

Total Years of Experience

40+

Jose has 40+ years of experience in engineering. He has 7 years of project supervision in the Philippines, possesses 17 years of structural engineering background, project supervision, and construction management in the Kingdom of Bahrain, and 16 years of structural engineering in California and Nevada.

Select Project Experience

Sandhurst Las Vegas-North Tower Condominium, NV Structural Design

35-story post-tensioned flat plate floors with concrete shear walls system.

Astoria Plaza, Ortigas City, Philippines

Construction Management

5 level basement + 35-story concrete slab with dual frame system (concrete moment frames with concrete shear walls).

Marina Villas (Building A, B, C, D and E), Sparks, Nevada

Structural Design

4-story light steel framing and shearwall system.

Parkline Lofts, NV

Structural Design

4-story metal deck floor on structural steel frame with steel braced system.

Proposed ALOFT, Henderson, NV

Structural Design

6-story post-tensioned flat plate floors with concrete shear walls.

Al Matrook Towers, Juffair, Bahrain

Structural Design and Supervision

Three 10-story pre-cast hollow core slab on concrete moment frames.

Residential Building for Shk. K.S. Al Khalifa, Manama, Bahrain

Structural Design

12-story cast in place slab with concrete moment frames.

Residential Building for Shk. A.S. Al Khalifa, Juffair, Bahrain

Structural Design

12-story cast in place slab with concrete moment frames.



Engineers & Land Surveyors

Statutes & Regulations

Public

Licensing

Board









BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

JUNE 23, 2006

EXPIRATION DATE
SEPTEMBER 30, 2022

CURRENT DATE / TIME
MAY 17, 2022
5 50 49 AM



Education

Masters of Engineering Management B.S., Civil Engineering

Registrations/Certifications

Registered Professional Engineer:



U.S. Army Corps. of Engineers: Construction Quality Management for Contractors Certification

Tenure at BV

1

Total Years of Experience

37+

has 37+ years of experience as a civil engineer and possesses technical leadership in design, construction and management. He also has 25 years of facility engineering experience with large infrastructure projects. Additionally, Franklin worked 17 years in the private sector on a variety of construction projects. As a general contractor with his own company for 7 years, he completed many custom homes and a myriad of new residential, commercial and renovation projects. He served as the Chief of Readiness for the Air Force Reserve Command in charge of 5,000 Air Reserve engineers. Franklin established a web-based equipment process enabling oversight of \$72 million of equipment and set a standard for all Air Force Reserve to follow.

Franklin's experience in both the private sector and the armed forces acting as the Authority Having Jurisdiction (AHJ) had provided him a unique perspective and understanding of building code standards and provisions. On numerous occasions he has shown unparalleled strength with regards to leadership and collaboration and has become known for facilitating strong public relations and establishing positive working relationships with elected officials, internal departments, inter-government agencies, business organizations, the development community, labor groups, community groups, and residents.

Select Project Experience

Business Unit Manager

Bureau Veritas North America, Inc.

2021 - Present

Directs the operations for the Nevada region, managing the day to day operations of the office. On a daily basis works closely with clients to meet their needs and provides quality services efficiently. Responsibilities include building official duties, special project management, managing contracts of permits, plan check, and inspection services for 10 jurisdictions.

Owner, Licensed Florida Certified General Contractor Freedom Development, LLC

2013 - 2020

Oversaw private and commercial construction projects ranging from Panama City to Pensacola Florida with dollar values from \$10k to \$1.5M. Worked as a resident Construction Manager, Hurlburt Field, FL. Responsible for overseeing demolition of old housing, remediation of contaminated soil and construction of over 400 new homes.



Engineers & Land Surveyors

Statutes & Regulations

Public

Licensing



December 31, 2023 Expiration Date:

Discipline(s): CE

Disciplinary Action: No



Henderson City:

State: NV



Kentucky Board of Engineers & Land Surveyors



DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF PROFESSIONAL LICENSING P.O. BOX 30670 LANSING, MI 48909 6201310948APP22

STATE OF MICHIGAN - DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

BUREAU OF PROFESSIONAL LICENSING



COMPLAINT INFORMATION
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AS A WAIVER, DISMISSAL OR ACQUIESCENCE TO ANY
COMPLAINTS OR VIOLATIONS PENDING AGAINST THE
LICENSEE, ITS AGENTS OR EMPLOYEES.

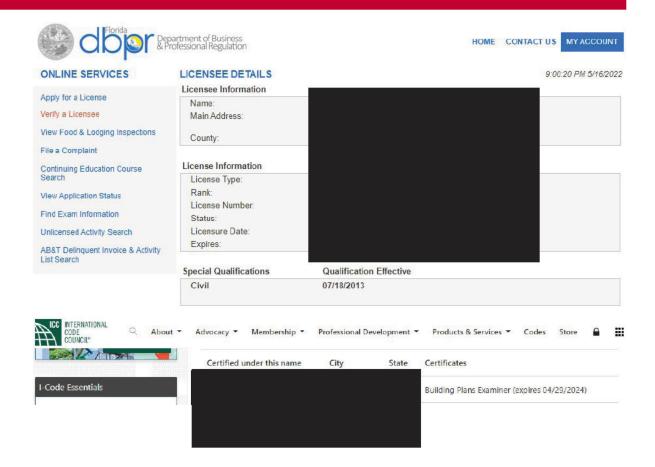
FUTURE CONTACTS
YOU SHOULD DIRECT INQUIRIES REGARDING THIS LICENSE OR
ADDRESS CHANGES TO THE DEPARTMENT OF LICENSING AND
REGULATORY AFFAIRS BY EMAILING BPLHELP@MICHIGAN.GOV
OR CALL (517) 241-0199

GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
BUREAU OF PROFESSIONAL LICENSING
PROFESSIONAL ENGINEER LICENSE

EXPIRATION DATE
03/11/2024

HIS DOCUMENT IS DULY SUED UNDER THE LAWS OF



Education

B.S. Civil Engineer

Registrations/Certifications

Registered Professional Engineer:



Tenure at BV

4-

Total Years of Experience

33-

is a licensed Professional Civil Engineer with an extensive background in performing structural plan reviews of commercial, residential, industrial and other miscellaneous projects for compliance with the structural provisions of the International Building Code. She has also been involved in preparing policies and procedures as well as participating in structural code committees for local jurisdictions. Lilian is a highly motivated and results-oriented professional with good written, verbal, and interpersonal communication skills. She has a consistent track record of meeting and exceeding goals and objectives.

Select Project Experience

Structural Plan Review Engineer

Bureau Veritas North America, Inc.

2017 - Present

Provides structural plan reviewing services on projects throughout the Western United States.

Project Engineer

City of Las Vegas Department of Building & Safety, NV

Performed plan review of off-site civil improvement plans for commercial and residential subdivision projects. Coordinated with other Public Works divisions, such as Sanitary Sewer, Traffic and Transportation, Development Coordination, and Flood Control, as well as other Departments such as City Planning and Fire. Worked with Nevada Department of Transportation and Regional Transportation Commission. Checked encroachments, covenants and deviations in the public right of way. Prepared off-site construction estimates for bond posting with off-site agreements.

Structural Plans Examiner

City of Las Vegas Department of Building & Safety, NV

Performed structural plan review of commercial, residential, industrial and other miscellaneous projects for compliance with the structural provisions of the current adopted International Building Code and referenced standards and ordinances adopted by the City. Managed and implemented the special inspections program by the City. Prepared policies and procedures. Participated in structural code committees for local jurisdictions.

Associate Engineer

American Structural Engineers, Long Beach, CA

Performed structural design of various commercial building such as parking garages, condominiums and office buildings. Performed structural design of seismic retrofit for earthquake damaged buildings.



Engineers & Land Surveyors

Statutes & Regulations

Public

Licensing

Board









BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

ISSUANCE DATE
DECEMBER 20, 1991
EXPIRATION DATE
JUNE 30, 2022
CURRENT DATE / TIME
MAY 16, 2022
6.09.47 PM

LICENSING DETAILS FOR: 48141

Education

M.S. Civil Engineer B.A. Structural Engineer

Registrations/Certifications

Registered Structural Engineer:



Tenure at BV

6-

Total Years of Experience

37

has over 37 years of experience as a professional structural engineer working on both private and government projects. He has worked on projects nationwide and teamed with architects to design, construct, and maintain buildings and building complexes. He has extensive plan review experience with many project types. Sam is also proficient in various computer programs including, AutoCAD, ETABS, Risa-3D, PTISlab, Microsoft Office Suite, and FORTRAN.

Select Project Experience

Structural Plan Review Engineer

Bureau Veritas North America, Inc.

2015 - Present

Provides structural plan reviewing services on projects throughout the Western United States.

Structural Plans Examiner

City of Las Vegas

2005 - 2008, 2015 - Present

Serves as structural plans examiner and assists the City of Las Vegas in reviewing permit application plans, structural calculations, and code requirements. Other job duties include consulting with structural engineers, architects and contractors regarding structural code and special inspection requirements.

Principal Engineer & Owner

Wu Structural Engineers

2002 - Present

Serves as Principal Engineer and coordinates with clients, contractors and lead design team for project development, structural and architectural design, review, and plan approval. Other responsibilities include field consultation, observation, and construction problem resolution when issues arise.

Structural Plan Review Engineer

JW Marriott Hotel

2015

Provided structural plan review for a 12 story superstructure and a three story underground parking structure with special reinforced concrete shear wall system.







BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

ISSUANCE DATE
FEBRUARY 10, 1995
EXPIRATION DATE
JUNE 30, 2023
CURRENT DATE / TIME
MAY 16, 2022
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LICENSING DETAILS FOR: 53787



Engineers & Land Surveyors

Statutes & Regulations

Public

Licensing

Licensee Status : ACTIVE

Expiration Date : June 30, 2022

No

Discipline(s): CE,SE

Disciplinary Action:

City: Las Vegas

State: NV

Education

M.S., Electrical Engineering Minor in Electro-Mechanical Applications

Registrations/Certifications



Professional Affiliations

Advisory Board for the AS Degree Code Enforcement

Board Member, Inspection Enforcement Training Institute LLC

Tenure at BV

10+

Total Years of Experience

30+

has over 30 years of experience as an electrical engineer, with involvement in electrical plan and peer reviews of documents for various large complex commercial projects, power plants and industrial facilities. His experience also includes electrical engineering design for commercial facilities, residential structures and testing of power equipment, electrical design, high, medium and low voltage systems, power, lighting, one line diagrams, load calculations, fire alarm systems, Title 24, load flow, short circuit studies, protection coordination, arc flash energy determination using ETAP software and AutoCAD. Cristian performs code compliance plan review services and is skilled in high voltage and power plant equipment review. He has also designed, modernized and optimized power supply distribution, control and photovoltaic systems, tested sensors, automated data acquisition devices and security systems in industrial environments. Experienced in load flow, short circuit studies, protection coordination and arc flash energy determination using ETAP software. He also coordinated the development of prototypes, testing, conducted lab and field measurements and worked in compliance reviews regarding codes and standards including IEEE, NFPA, NEC, NESC, GO, BS, ICC, NEMA, and IEC.

Select Project Experience

Abengoa Power Plant, \$1.6 Billion in total 2010 - 2016

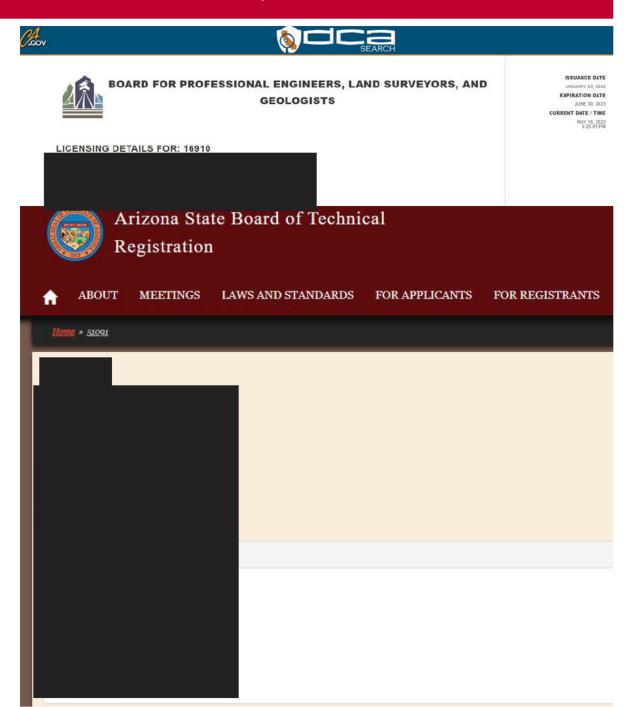
California Energy Commission (CEC) / Mohave Solar, LLC

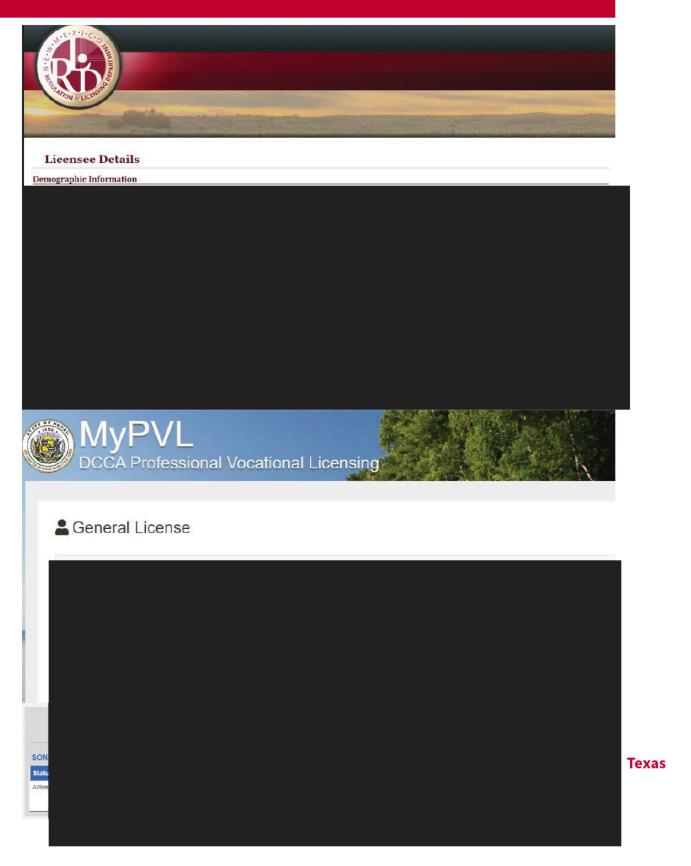
Performed electrical plan review and inspection services for Abengoa Power Plant. The project has a combined nominal electrical output of 250 MW from two, independently operable solar collector fields (heat collection element) surfacing a total of 200,000 square feet, also included, the constructing of a new 220kV substation. Owner design features included fiber optic communication cables, associated poles, conduits, and other telecommunication facilities which provided diverse path routing of communications for project interconnection, and provided redundancy at the power blocks.

Ivanpah Solar Generating Station, \$2.2 Billion in total 2009 - 2014

California Energy Commission (CEC) / BrightSource Energy

Electrical plan reviewer and inspection services for the Ivanpah Solar Electric Generating System (ISEGS), located on 3,600 acres of U.S. BLM managed land in southeastern California. ISEGS is a 392MW solar thermal power facility. The project uses mirrors to focus the power of the sun on solar receivers atop 460 ft. power towers. The complex is comprised of three separate plants and uses BrightSource Energy's LPT 550 technology. The solar arrays consist of thousands of software controlled mirrors tracking the sun in two dimensions and reflecting the sunlight to a boiler that sits atop a tower. When the concentrated sunlight strikes the boiler pipes, it heats the water inside to more than 1,000° F creating superheated steam at the temperature necessary to achieve the industry's highest operating efficiencies. This high temperature steam is then piped from the boiler to a standard turbine where electricity is generated.







UTAH DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING LICENSEE LOOKUP & VERIFICATION SYSTEM

Details for Cristian Panu Son

License Information

Name:		
City, State, Zip, Country:		
Profession:		
License Type:		
License Number:		
Obtained By:		
License Status:		
Original Issue Date:		
Expiration Date:		
Agency and Disciplinary Action*:		
Docket and Citation Number(s):		

Education:

School Name	Мајог	Graduation Date	Degree
Endorsement (CA)	Professional Engineer	2011-06-30	

Education

M.S., Civil Engineering, Structural Emphasis

> B.S., Civil and Environmental Engineering

has over 17 years of experience as a structural engineer in California. He has extensive experience working on OSHPD and DSA projects throughout Northern California. He is knowledgeable in various design and structural engineering software programs. He is able to conduct plan review services for various building types including residential, commercial and industrial occupancy types.

Registrations/Certifications



Tenure at BV

2+

Total Years of Experience

17+

Select Project Experience

Structural Plan Review Engineer Bureau Veritas North America, Inc.

2016 - Present

Conducts structural plan review services for complex projects throughout California. Projects reviewed include Valley Milk in the City of Turlock.

Project Engineer / Principal Anderson & Doig Structural Engineers

2007 - 2016

Delivers innovative, cost effective solutions to meet the aesthetic and functional demands of the building for the client from schematic design to DSA, OSHPD or city approval and through construction. Selects and optimizes structural systems to support lateral and gravity loads for single and multi-story steel, concrete, masonry, wood and light gauge steel structures. Produces structural calculations, design drawings, specifications and provides construction administration services in compliance with the California Building Code. Projects include K-12 public schools, healthcare facilities, private colleges, churches, residential and commercial buildings, structural rehabilitation, seismic retrofit and forensic engineering. Projects utilize design-build, design-bid-build and integrated project delivery methods. Manages client base as well as engineering, drafting and administrative staff.

Design Engineer / Project Manager Harris & Sloan Consulting Group

2004 - 2007

Analyzed, designed and detailed single and multi-story buildings throughout California using wood, steel, concrete and masonry. Projects included new custom and production residential homes, recreation centers, apartment, condominium and senior housing complexes, renovations, mixed-use, commercial, retail and office buildings. Successfully managed client base providing quality engineering for projects on time and within budget. Responsible for creating project proposals, invoices and schedules, attending value engineering and other client meetings, providing structural observation and construction administration services as well as managing engineering and drafting staff.







BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

JUNE 21, 3612

EXPIRATION DATE

JUNE 30, 2023

CURRENT DATE / TIME

MAY 16, 2023
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LICENSING DETAILS FOR: 5795



DPOR License Lookup License Number 0402063162

License Details

Name
License Number
License Description
Rank
Address
Initial Certification Date
Expiration Date

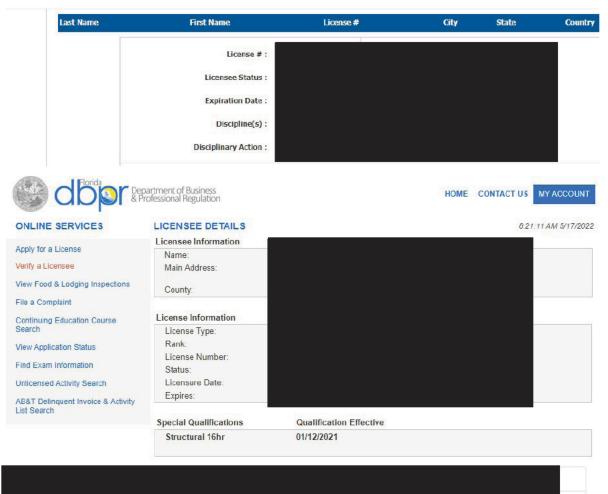
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Engineers & Land Surveyors Statutes & Regulations Public Licensing Board



Washington

Civil

Education

MS, Civil Engineering BS, Civil Engineering

Registrations/Certifications

CA Civil Engineer,



20+

a results-driven project manager with more than 20 years of experience in public work, educational, residential, commercial, industrial, and land development projects. Throughout his career he has demonstrated a high degree of creativity, foresight, and mature judgment in planning, organizing, and guiding extensive engineering programs and activities. Mehdi has a proven ability to manage and complete projects within budget and on schedule, with emphasis on quality control and adherence to codes and standards.

Select Project Experience

Project Manager

City of Chino On-Call Accessibility Design Drafting and Plan Check Services

Currently providing on-call accessibility design, drafting and plan check services for ADA grievance projects and pedestrian accessibility for public works capital improvement projects. The project includes scope, design and construction of new improvement and alteration projects in compliance with Federal, State and Local accessibility regulations; including Americans with Disabilities Act, California Building Code and the City of Chino ordinances and policies.

Project Manager

City of Los Angeles General Services Division Mt. Lee Underground Bunker Waterproofing

BV is providing parking improvements and maintenance of the waterproofing surrounding an underground bunker on Mt. Lee near the Hollywood sign. The bunker serves as a critical communication center for the City of Los Angeles. The bunker leaked water during the past couple wet seasons and site reconnaissance determined the bunker's waterproofing envelope reached its service life and required replacement.

Civil Engineer

City of Pomona ADA Self-Evaluation and Right of Way Transition Plan

Provided a comprehensive ADA self-evaluation and right-of-way transition plan for City streets and sidewalks. Performed field investigations within the City right-of-way in order to identify obstacles limiting accessibility, describe methods to improve accessibility and specify a schedule for achieving ADA compliance.

Project Manager

Orange County Community Resources On-Call Architectural and Engineering Services - Orange County Parks Aliso and Wood Canyons Wilderness Park

The project included architectural and engineering for the park visitor center, ranger office and restroom facilities. Designed and prepared construction documents for street utilities not provided by OC Public Works. Phase I work improved the parking area, Sycamore Grove gathering area, and Park Entrance Areas. Phase II work included construction of three entry buildings and related utility and site work.







BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

ISSUANCE DATE
DECEMBER 15, 2015
EXPIRATION DATE
MARCH 31, 2024
CURRENT DATE / TIME
NAY 16, 2022
6.59-04 PM

LICENSING DETAILS FOR: 84833

Education

BS, Civil Engineering

Registrations/Certifications

Total Years of Experience

19

has more than 19 years of experience in a variety of projects from transit to highway and utility projects. He has worked on many high profile projects for well-known agencies including Metro, Caltrans, OCTA and Sempra. Christian's work in the design of rail, light rail and highway projects is especially notable for utilizing the industry standard software to produce drawings and deliverables. He is skilled in Microstation, Inroads, Autocad and Civil 3D. He is familiar with municipal, state, and federal codes, guidelines, and standards for small and large engineering projects. He has performed quality control in his infrastructure projects and is familiar with ISO-9001 standards for quality control of engineering plans. He is adept at collaboration and performing quality control with large teams.

Select Project Experience

Project Engineer

Los Angeles County Metropolitan Transportation Authority (Metro) Center Street Project Design Build

Civil engineering for the single-story, 26,000 sq. ft, \$100M essential facility with three floors of enclosed space built over at least 91 at-grade parking spaces that will house Metro's new Emergency Operations Center (EOC) and Security Operations Center (SOC) while accommodating a 50-year expansion within the allocated project budget. Civil engineering services include storm drain design, sewer design, water system design and street improvements.

Caltrans Ontario, CA

Designed ADA curb ramps for Caltrans highway projects using newest Caltrans standards. Utilized chapter 300 and 400 to design curb, gutters, sidewalks, and ramps. (*Previous Experience*)

Utility Coordinator

Caltrans I-405 Widening Project in Orange County

As a utility coordinator on the design-build team for the widening of 13 miles of the I-405 freeway, from SR-73 to I-605, coordinated utility designs and removals for client with all utility owners and stakeholders. Created concepts for utility relocations in challenging locations while adhering to the exacting schedules of a large design-build project and meeting the QA/QC goals of the project. (*Previous Experience*)

Lead Project Engineer

Caltrans I-405/SR-22 HOV Connector

In a fast paced design build project, was responsible for utility coordination, location and relocation. Identified pothole locations for critical utilities. Conducted extensive quality assurance and control for the project to assure outstanding product. Lead drainage and utility designer for PS&E preparation for two roadway improvements surrounding the San Bernardino International Airport in preparation for conversion from military to civilian/commercial service. (Previous Experience)







BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

ISSUANCE DATE
JULY 23, 2009
EXPIRATION DATE
DECEMBER 31, 2023
CURRENT DATE J TIME
MAY 16, 2022
7:03.54 PM

LICENSING DETAILS FOR: 74559

Education

BS, Civil Engineering

Registrations/Certifications

Total Years of Experience

18-

has over 18 years of experience in civil engineering of storm water management projects throughout California. Reza is able to balance support for multiple concurrent priorities while maintaining and developing effective working relationships with clients, governing agency personnel, construction teams and colleagues. He possesses a broad range of technical effectiveness and leadership skills and uses rigorous logic and methods to come up with effective solutions. One of his greatest strengths is his ability to deliver projects within agreed upon timelines and to gain an understanding of the client's objectives.

Select Project Experience

Civil Engineer

City of Chino On-Call Accessibility Design Drafting and Plan Check Services

Currently providing on-call accessibility design, drafting and plan check services for ADA grievance projects and pedestrian accessibility for public works capital improvement projects. The project includes scope, design and construction of new improvement and alteration projects in compliance with Federal, State and Local accessibility regulations; including Americans with Disabilities Act, California Building Code and the City of Chino ordinances and policies.

Civil Engineer

Los Angeles Community College District Stormwater Projects

Providing civil engineering design services at two LACCD campuses - Southwest College and West Los Angeles College. Projects include installation of an underground infiltration system, installation of drainage improvements, installation and integration of grate inlets, design of a new maintenance and operations vehicle wash down area, and improvement to stormwater drainage.

Project Manager

IRWD Professional Office, Irvine, CA

Project Manager for proposed office building and parking lot on 5 ac. Property. Demolition of existing street and wet utilities. Relocation of about 150 LF of sewer and 250 LF of water utilities for new site layout. Proposal of about 1,000 LF of storm drain utilities. (*Previous Experience*)

Project Manager

Vista Ridge Apartments, Vista, CA

Project Manager for 14 ac. apartment site. Grading, street and wet utility improvements. New public sewer, domestic and fire water infrastructure. Water hydraulic analysis. (*Previous Experience*)

Project Manager

Ocean Place, Seal Beach, CA

Project Manager for 10 ac. Single family and Public Park site. Grading, street and wet utility improvements. Demolition of wet utilities and relocation. Sewer and water hydraulic analysis. (*Previous Experience*)







BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

JULY 16, 2010

EXPIRATION DATE

DECEMBER 31, 2022

CURRENT DATE / TIME

MAY 16, 2022

7, 96, 18 PM

LICENSING DETAILS FOR: 76402

Education

BS, Civil Engineering

Registrations/Certifications

Total Years of Experience

20

in civil engineering design and project management. His project management experience includes overseeing building construction, quality control, inspection, and overall project cost estimates. Civil engineering design experience includes grading plans for sewers, water and storm drains, erosion control plans, site dimension control (horizontal and vertical control measurements) and standard urban stormwater mitigation plan and low impact development.

Select Project Experience

Civil Engineer

Los Angeles County Metropolitan Transportation Authority (Metro) Center Street Project Design Build

Civil engineering for the single-story, 26,000 sq. ft, \$100M essential facility with three floors of enclosed space built over at least 91 at-grade parking spaces that will house Metro's new Emergency Operations Center (EOC) and Security Operations Center (SOC) while accommodating a 50-year expansion within the allocated project budget. Civil engineering services include storm drain design, sewer design, water system design and street improvements.

Projects prior to joining BV include:

- Waterlines from Grand Ave to Lincoln Ave, Public Works, Corona, CA
- Limonite Pearl Community, Jurupa, CA
- Arantine Hills Sewer Force Main, Public Works, Corona, CA
- 100 plus Homes Tract 36533, Corona, CA
- Water System Improvements, Public Works, Corona, CA
- Saint Joseph Dormitory, Camarillo, Los Angeles, CA
- Missionary Guadalupanans of the Holy Spirit, Los Angeles, CA
- CNG Fuel Station, El Toro Rd, Lake Forest, CA
- · Arden Residence, Beverly Hills, CA
- Wonderland Apartments, Wonderland Ave., Los Angeles, CA
- · Abbot Vascular located at Ynez Road, Temecula, CA
- Whitaker Business Center at Clinton Keith, Murrieta, CA
- Lego Land at Carlsbad, CA
- San Clemente Ave Road Improvement at Vista, CA
- 18-Lots Subdivision at San Clemente Ave, Vista, CA
- Pacific Condominium, Riverside, CA







BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

ISSUANCE DATE
FEBRUARY 26, 1999
EXPIRATION DATE
JUNE 30, 2023
CURRENT DATE / TIME
MAY 16, 2022
7,99-15 PM

LICENSING DETAILS FOR: 58892



Education

BS, Civil Engineering

Registrations/Certifications

OSHA 30 Hour Certificate

Total Years of Experience

26+

is an accomplished Scheduler with more than 26 years of success across the management of civil engineering, architectural, logistics, transportation, educational and aviation industries, within various public agencies. He has extensive experience in leading projects as part of the program management team. He is thoughtful and creative in his approach to solving clients' challenges and works to break free from stagnation and reignite growth, leading to successful implementation. He believes in finding solutions to project challenges, and providing added value to the project team. His approach is to work as an extension of the clients' staff. He wants people and projects to succeed; understanding their success is his success.

Select Project Experience

Civil Project Manager

Los Angeles County Metropolitan Transportation Authority (Metro) Center Street Project Design Build

Civil engineering for the single-story, 26,000 sq. ft, \$100M essential facility with three floors of enclosed space built over at least 91 at-grade parking spaces that will house Metro's new Emergency Operations Center (EOC) and Security Operations Center (SOC) while accommodating a 50-year expansion within the allocated project budget. Civil engineering services include storm drain design, sewer design, water system design and street improvements.

Projects prior to joining BV include:

- OCTA/SR 57 Expansion Project
- South Mission Valley Trunk Sewer
- Imperial Beach Yard Improvement
- Wawona Tunnel Utility Improvement
- Mohler Loop Electrical Improvements
- Summit Sewer Study
- Rainbow Water District Sewer Study
- · Concrete Pads, China Lake
- Camp Wilson Lift Station and Wastewater Pipeline
- Area 25 Water Pipeline Replacement at MCB Camp Pendleton
- 29 Palms Force Main Sharp Substation Oil Containment Project

Education

BS, Civil Engineering

Registrations/Certifications

CA Engineer-in-Training

Total Years of Experience

7-

an experienced Civil Engineering Designer. He received his Bachelor of Science in Civil Engineering from California State Polytechnic University, Pomona, in 2014. He is skilled in AutoCAD, StormCAD, CivilD, and Civil3D.

Select Project Experience

Civil Designer

LAUSD ADA Barrier Removal Program Various Locations

This project involved the removal of various barriers to travel for accessibility code compliance. This includes the design of pedestrian and curb ramps, parking areas, and paths-of-travel to meet ADA compliance for numerous LAUSD schools. As a senior civil engineer, Mr. Kang was the Civil Designer for; Patrick Henry, O'Melveny, 6th Avenue, Westchester, and Taper.

Civil Designer

LAUSD International Studies Learning Center

This project involved the design of a new traffic signal at Atlantic Boulevard and Chakemco Street for the LAUSD's International Studies Learning Center. Mr. Kang assisted with coordination with SCE and City of South Gate for the new electric meter and service. He worked with LAUSD and City of South Gate to present all design options.

Civil Designer

Redondo Beach Deferred Maintenance Yard Restrooms

Mr. Kang worked on design services for proposed deferred maintenance yard restroom in Redondo Beach, which involve performing interior and exterior work to the path of travel, maintenance facility paving and restrooms. Work included additions and replacements to the areas such as Men's and Women's restrooms, Office Restroom, Garage and Yard.

Education

Examiner

B.S. in Architecture

Registrations/Certifications

ICC Certified:
Certified Building Official
Building Plans Examiner
Fire Plans Examiner
Electrical Plans Examiner
Accessibility Plans Examiner
Commercial Energy Plans

Residential Energy Plans Examiner

Mechanical Plans Examiner

Plumbing Plans Examiner

Commercial Energy Inspector

Commercial Building Inspector

Residential Building Inspector

Professional Affiliations

Mechanical Inspector

Swimming Pool Code - SNBO Existing Building Code - SNBO International Energy Conservation Code - SNBO

Tenure at BV

1+

Total Years of Experience

23+

is a seasoned Building Plans Examiner with 14 years of experience in the field. Extensive background includes construction project management and coordination combined with architectural design with over 20 years of collective practice. Proficiencies also include Building Plan Review as well as Fire Plan Review. Possesses exceptional organizational and time management skills and is detailed and quality oriented with an emphasis on outstanding customer service.

Select Project Experience

Plans Examiner

Bureau Veritas North America, Inc.

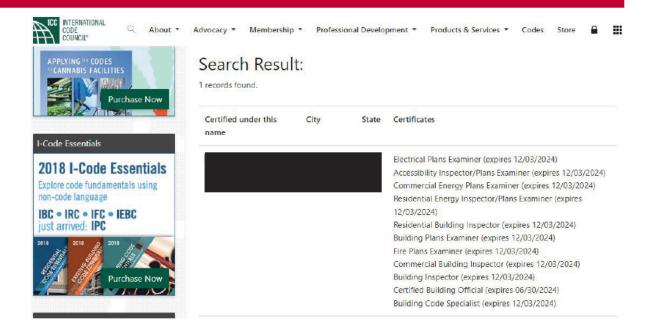
2021 - Present

Performs a variety of advanced technical, administrative, and supervisory work in directing engineering activities related to plan review for numerous municipal clients throughout the Western United States. Reviews residential, commercial, industrial and public works project plans, reports and other development and design related documents for compliance with all applicable building, mechanical, plumbing, fire, and electrical codes, and other local, state, and federal codes and guidelines. Interacts with designers, contractors and owners to review proposed projects, answered question. Provides interpretations of the codes and established policies and procedures. Researches code and product standards to determine compliance with adopted codes.

Combination Building Plans Examiner III

Henderson, Nevada

Checked plans and specifications, minor structural calculations, and grading for residential, commercial, and industrial buildings and structures for compliance with the International Building Code, International Energy Conservation Code, National Electrical Code, and numerous other related standards and policies. Ensured plans meet the requirements of building codes, regulations, and restrictions and made corrections when required. Prepared correspondence to design and construction professionals. Performed inspections of job sites to evaluate discrepancies between plans, specifications, and work completed. Conferred with engineers, architects, contractors, or the public to discuss problems with plans and required changes. Performed field inspections in assistance to building inspectors. Responded to verbal and written inquiries and provided technical assistance to engineers, architects, contractors, other City personnel, and the public. Interpreted and explained requirements and restrictions relative to building codes, ordinances, regulations, policies, and procedures and approved alternative methods to comply with those requirements. Assisted in researching and developing code changes or procedural changes to enhance customer service.



Education

Supervisor Academy B.S., Industrial Engineering Electrical Training Program

Registrations/Certifications

ICC Certified:

Commercial Mechanical Inspector
Residential Plumbing Inspector
Residential Electrical Inspector
Plumbing Plans Examiner
Commercial Building Inspector
Residential Mechanical Inspector

Combination Inspector
Mechanical Plans Examiner

Residential Building Inspector

Commercial Electrical Inspector

Certified Building Official

Commercial Plumbing Inspector

Building Inspector

Mechanical Inspector

Electrical Inspector

Plumbing Inspector

Plumbing Code Specialist

Mechanical Code Specialist

Residential Combination Inspector

Commercial Combination Inspector

Electrical Plans Examiner

Electrical Code Specialist

Professional Affiliations

International Code Council (ICC)

ICC Educational Development Committee

Tenure at BV

1+

Total Years of Experience

46+

has over 40 years experience in the Building Safety Industry working in both the public and private sectors in Arizona. James has a proven and successful track record of code knowledge which is backed up by his 22 ICC Certifications. James' experience includes performing complete plan checks for commercial, industrial and residential occupancies to verify compliance with ICC Building, Electrical, Mechanical, and Plumbing Codes. Additionally, James has an extensive technical background which includes five years as an Independent Contractor on private commercial and residential electrical projects and over two years experience as a Maintenance Electrician in heavy industry.

Select Project Experience

Plans Examiner

Bureau Veritas North America, Inc.

2021 - Present

Provides plan review and inspection services for jurisdictions in Arizona for projects such as residential, commercial, industrial, infrastructure, development, grading, etc.

Senior Plans Examiner/ Building Inspector II

City of Scottsdale

2005 - 2021

Performed reviews for Commercial Mechanical, Plumbing and Electrical Review (MEP). Review submitted plans for code conformance, answer code questions from homeowners, contractors, engineers and architects and City Building Inspectors. Provide analysis of upcoming codes and recommend/propose amendments to current City Codes. Commercial and Residential Combination Inspector. Performed Inspections for code and city ordinance compliance. Areas of inspection included, site, footing, framing, roofing, mechanical, electrical, plumbing, drainage and signs. Obtained 9 certifications within 3 years of hire.

Electrical Foreman/Journeyman Electrician

Private Sector

2003 - 2005

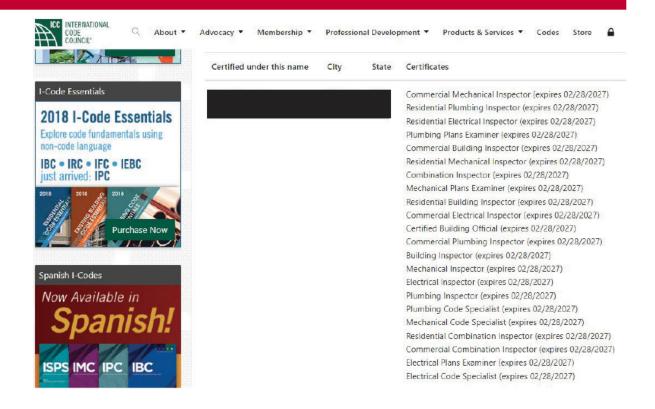
Performed inspections of electrical installations prior to turnover to clients. Supervised the installation of multi-million dollar semi-conductor equipment at INTEL. Performed tenant improvement and maintenance electrical for various businesses throughout the Phoenix metropolitan area.

Construction Manager

Crescent Moon Development Corp/ Four Seasons

2000 - 2003

Involved in the construction of \$1.8million+ homes associated with the Four Seasons Resort in Scottsdale, AZ including infrastructure. Monitored schedules, budgetary expenditures and updated budgets.



Registrations/Certifications

ICC Certified:

Combination Residential Inspector

Combination Commercial

Inspector

Building Plans Examiner

Electrical Plans Examiner

Plumbing Plans Examiner

Accessibility Plans Examiner

Residential Energy Plan Examiner

Fire Inspector I

Fire Inspector II

Fire Plans Examiner

Master Code Professional

Building Official

Certified Flood Plain Manager

Registered Accessibility Inspector

Code Enforcement Officer

State Plumbing Inspector

Master Plumber

Master Med Gas

State MRFPSS Inspector

1

Certified Storm Water Inspector

OSHA 10

Professional Affiliations

International Code Council (ICC)

Tenure at BV

1+

Total Years of Experience

30+

has 30+ years of experience as a building official, inspector, contractor, and master plumber. His skills include project management, conflict resolution, team leadership, budgeting, organizational management, creative problem solving, policy and Internet research, and inter-agency relationships. His project experience has included residential and commercial structures. Highly skilled and knowledgeable, David is a valued member to any professional team.

Select Project Experience

Director of Public Works City

City of Rollingwood, TX

2020 - 2022

In charge of the day to day operations for Public Works Department. Supervise 3 staff members for repairs and maintaining city parks and Infrastructure. Oversaw third party contractor for water and Wastewater, meet with city engineer on projects involving infrastructure.

Building Official and Flood Plain Manager

City of Bastrop, TX

2018 - 2020

Operated the City's building department. Evaluated properties, conducted plan reviews, oversaw pre-construction meetings for new projects. Adopted building codes, customer service/occupancy inspections, and modified permit fees/processes to increase City revenue.

Building Official

City of West Lake Hills, TX

2014 - 2018

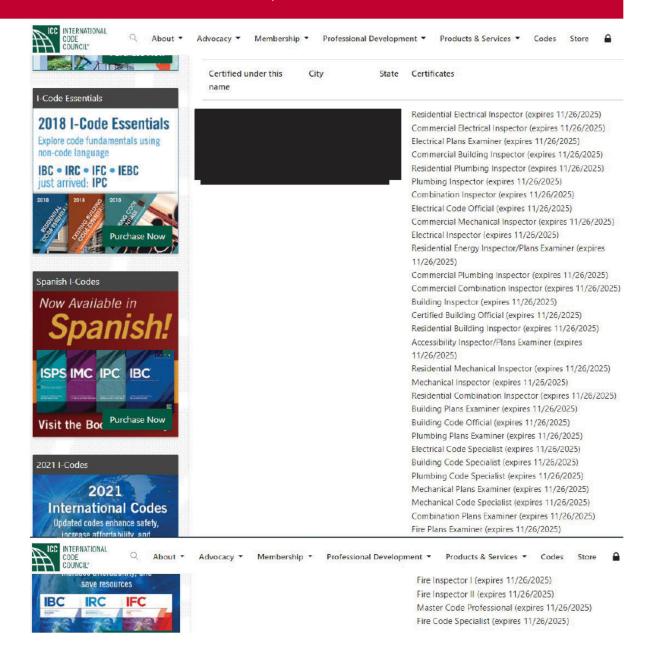
Planned and directed the daily activities of this building department. Collaborated with city staff, public agencies, and private organizations to resolve building code and construction issues. Gathered data, wrote reports, and presented facts or findings to executives and commissions. Coordinated repairs like the City's storm drainage system via contractor oversight. Collateral duties included Flood Plain Manager, Code Enforcement Officer, Director of Public Works.

Building Official

City of Cottonwood, TX

2010 - 2014

Oversaw this building department, working closely with City staff, public works, public agencies, and residents on building code and construction issues. Regularly served as a City representative at council and BOA meetings. Prepared and presented notice violations to the City Attorney. Collateral duties included Flood Plain Manager and Code Enforcement Officer.



Education

B.S. Civil Engineering and

Architecture

has over 25 years of experience in construction, plans examination, and customer relation experience. He has worked with multiple municipalities in Nevada and Idaho and has a proven track record of accountability and a high level of attention to detail.

Registrations/Certifications

ICC Certified Plans Examiner

(IBC/UBC)

Select Project Experience

Plans Examiner

Bureau Veritas North America, Inc.

2018 - Present

Conducts plan review of projects in California and Nevada. Projects include commercial buildings in the Las Vegas area.

Professional Affiliations

International Code Council (ICC)

Tenure at BV

3+

Building and Safety Plans Examiner

City of Las Vegas, NV

2006 - 2008, 2015

Provided plans examination of residential and commercial projects; interfaced with customers both in writing and verbally to resolve problems and clarify code; and assisted with computer data entry and records keeping.

Total Years of Experience

25+

Senior Plans Examiner

Consultants of Nevada

2006

Provided plans examination of residential and commercial projects; assisted in streamlining procedures and methods to reduce plans examination time; and interfaced with customers to resolve problems.

Building and Safety Plans Examiner

City of Las Vegas, NV

1998 - 2005

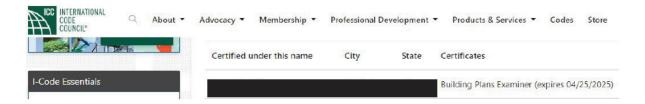
Provided plans examination of residential and commercial projects; assisted in the development and modification of new operating software; and assisted with computer data entry and records keeping.

Front Counter Technician/Examiner

Clark County Building and Safety

1996 - 1998

Provided front counter interface with customers; processed plans and applications; front counter plans examination - architectural, plumbing, mechanical, electrical, and structural; and streamlined and organized front counter process and paperwork.



Education

B.S., Applied Science and Technology
- Fire Science

A.S., Building Inspection Technologies

Registrations/Certifications

California Registered Professional Engineer, Fire Protection Engineering

Professional Grade Member Society of Professional Engineers (SFPE)

> Certificate in Fire Protection -University of California, Davis

Certificate in Building Inspection Technology

Certified Fire Protection Specialist, NFPA

Certified Engineer Technician Level III
- N.I.C.E.T.

ICC Certified:

Certified Building Official

Certified Fire Marshal

Building Plans Examiner

Building Plans Examiner, UBC ICC

Certified Fire Plans Examiner I

Certified Fire Plans Examiner II

Certified Emergency First

Responder Instructor Primary and Secondary Care and AED

Certificate Fire Prevention 2C.

Special Hazard Occupancies,

CSFM Accredited Course

Certificate Fire Prevention 2B.

CSFM Accredited Course

Certificate of Completion

Classification of Hazardous

Materials, Fire Chiefs Association

Total Years of Experience

24+

is a leader in the fire service as well as the fire industry. A well-rounded professional, with experience in managing teams of diverse professionals in both the public and private sector. Utilizing experience in engineering and development to educate the community in building standards and mentor the public sector in effective partnering and collaboration for the successful completion of all projects and improve the system of public safety. An expert in the interpretation and application of laws, codes, and standards as it relates to areas of engineering, public safety, building construction, heavy industrial, hazardous materials, and emergency response.

A clear and concise communicator and listener, confident in her ability to make difficult decisions, and with a strong affinity for problem solving, a leader in the development and execution of difficult and highly technical projects. A reputation of being consistent in the interpretation of regulations and a person who expertly understands intent and alignment with public and fire fighter safety. Expert communication and education skills to explain and analyze performance criteria of codes and statutes. In-depth experience in identifying critical needs, deficiencies and potential opportunities for operational improvements.

Select Project Experience

Director, Fire and Life Safety Services Bureau Veritas North America, Inc.

2019 - Present

Provides fire plan review and inspection services for jurisdictions throughout Nevada and California.

Deputy Fire Chief and Fire Marshal, Prevention

Truckee Meadows Fire Protection District

Responsible for the development, command, administration, and coordination of the District's fire prevention division, including fire investigation, fuels management, public information and education, emergency management, and training; Conduct wildland, structural, and vehicle fire investigations; Responsible for processes associated with regulatory compliance that includes a system of plan review, inspection, and permitting; Perform construction plan review, fire investigation, and building inspections; Collaborate with local communities to develop improvements to evacuation planning and emergency preparedness; Interim Fire Chief during Fire Chief absence; Consistently demonstrated effective communication skill as an ambassador for the District with diverse audiences.



BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

ISSUANCE DATE
DECEMBER 19, 2011
EXPIRATION DATE
MARCH 31, 2024
CURRENT DATE / TIME
MARCH 28, 2022
12,49 04 PM

LICENSING DETAILS FOR: 1771

Fducation

M.A. Public Administration B.A. Organizational Leadership

Registrations/Certifications

ICC Certified:

Fire Marshal

Fire Inspector I

Fire Inspector II

Fire Plans Examiner

Certified Public Manager

Professional Affiliations

Registered Tribal Member of the Echota Cherokee Tribe of Alabama International Fire Marshals Association (IFMA) Arizona Fire Marshals Association (AFMA)

Project Management Institute (PMI)
National Native American Fire
Chiefs Association / International
Fire Chiefs Association
National Fire Protection Association
(NFPA)

International Code Council (ICC)

Member of several City of
Avondale Boards of Commission

Member of The National Society of
Leadership and Success

Tenure at BV

2+

Total Years of Experience

24+

I has over 24 years of experience in the fire & life safety industry, as a fire prevention specialist. He is a passionate public servant with a leadership management background; he understands the culture of public and private organizations. He is an effective communicator and has strong professional presence. Michael works as a conservative fiscal public officer who values transparency in government. He is an energetic leader with a strong work ethic of responsibility, accountability, empowerment, and a focus on quality and has a reputation for building solid, highly motivated teams.

Select Project Experience

University Fire Marshal

Arizona State University, Tempe

Managed and direct the operational, training, and administrative activities of 12 full-time and 40 part-time personnel. Prepared, submitted and managed annual operating and capital budgets of over \$2 million. Developed an efficient streamlined plan review process, reducing overall plan review time from over two weeks to an average of 3 days. Increased plan review revenues 60% by developing an operating procedure for plan reviews with an updated fee schedule. Partnered with a various agencies to bring nationally accredited fire training to the division personnel. Implemented a new electronic data record keeping system to increase efficiency and accuracy. Management of all construction related designs, plan reviews, site and system inspections for building and fire code compliance. Conducted over 800 construction and special system plan reviews in last 3 years.

Fire Chief / Assistant Fire Chief

Ak-Chin Indian Community, Maricopa

Managed and directed the operational, training, and administrative activities of 41 full-time and 35 part-time personnel. Provided Fire Service to an area covering approximately 40 square miles. Developed a new fire training program and partnered with Texas A&M College for accredited certifications for the personnel. Increased EMS and Ambulance transport revenue 25% by implementing a quality control program over documentation and billing procedures. Prepared, submitted and managed annual operating and capital budgets of over \$6 million. Responsible for preparing, submitting, awarding and managing over \$3.5 million dollars in grant funding during fiscal year 2012-2013. Designed, managed and directed the construction of new stations and apparatus acquisitions.



Registrations/Certifications

ICC Certified:

Fire Inspector I

Fire Inspector II

Fire Plans Examiner

Certified Building Official

Residential Plans Examiner

Residential Mechanical Inspector

Building Plans Examiner

Residential Building Inspector

Commercial Building Inspector

Commercial Mechanical Inspector

Building Inspector

Mechanical Inspector

NAFI Certified:

Fire and Explosive Investigator

Professional Affiliations

National Association of Fire Investigators (NAFI)

National Fire Protection Association (NFPA)

International Code Council (ICC)

Tenure at BV

3+

Total Years of Experience

20+

has 20 years of building and fire code experience as well as 15 years of hands on construction experience. John excels in meshing this experience with the philosophy of a jurisdiction to meet their needs. He has extensive management and supervisory experience that is an asset to any team.

Select Project Experience

Fire Plans Examiner

Bureau Veritas North America, Inc.

2019 - Present

Provides fire plan review and inspection services for jurisdictions throughout Arizona.

Assistant Director Fire Life Safety/Assistant Fire Marshall

Arizona State University, Tempe

2018 - 2019

Reviewed construction documents for Fire and Building Code compliance. Conducted inspections of new renovation work for compliance with the approved plans and codes. Investigated non-compliance with Fire, Life and Safety Codes. Worked with architects, ASU project managers, contractors and staff to meet deadlines and achieve customer service levels to the greatest level possible.

Deputy Fire Marshal

Clark County Fire Marshal's Office

2017

Reviewed construction documents for Fire and Building Code compliance. Conducted inspections of new construction for compliance with the approved plans. Conducted fire investigations with report writing for the Fire Marshal. Investigated reported non-compliance with Fire, Life and Safety Codes. Worked with contractors and owners on several large projects to meet hard set deadlines. Conducted fireworks enforcement.

Quality Assurance Representative

Project Solutions Inc. / Corps of Engineers

2016 - 2017

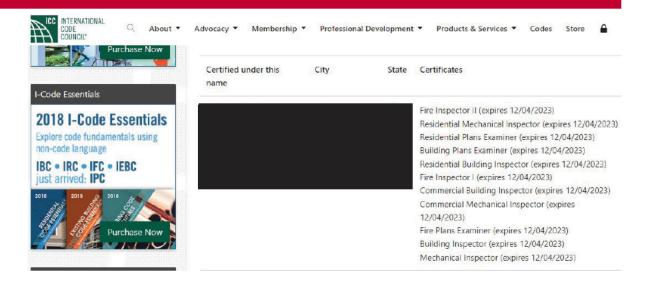
Acted as the QAR for the Corps of Engineers. Assured construction document design was followed. Worked independently as the contact for all Contractor/Corp communication on swing shift.

Building Official / Fire Marshal

City of Pendleton and Wallowa County

2004 - 2016

Managed the building division staff of both jurisdictions.



Fducation

B.S., Engineering - Fire Protection

Registrations/Certifications

Registered Fire Protection Engineer:



Professional Affiliations

Southern Nevada ICC
ICC Fire Safety Committee
ICC Building Code interpretation
Committee

Southern Nevada Chapter of the Society of Fire Protection Engineer (SFPE)

SFPE National Consulting-Specifying Engineer's Advisory Board

NFPA

Green Building Certification Institute (GBCI)

Total Years of Experience

22+

has over 22 years of experience providing various fire protection engineering services. He has worked with various building departments as a Fire Protection Engineer and founded his own specialized consulting company. Doug is experienced in reviewing, commenting and approving fire protection plans for a wide range of occupancy types as well as new and existing facilities. Doug is proficient in developing fire protecting related policy statements and guidelines, smoke management systems, grease/HVAC duct enclosures and alternative and equivalent code requirements.

Prior to his employment with Clark County, Doug performed fire protection engineering services with various consulting firms. In these positions, Doug became familiar with examining existing structures for code compliance including fire suppression and alarm system requirements, and negotiating levels of protection with stakeholders.

Doug has developed a thorough understanding of passive fire protection aspects that are incorporated into major structures and how they work together to provide a holistic approach to fire protection. Doug has also published and authored several professional articles, guides, and amendments which have been incorporated into the IBC codes.

Select Project Experience

Fire Protection Engineer

Bureau Veritas North America, Inc.

Provides fire plan review services. Specific projects include: CSU Fullerton Titan Student Union Renovation and Expansion. The project includes improvements to the existing 140,000 gross square foot Titan Student Union. An additional 20,000 gross square feet will be added to increase the capacity of the facility. The construction valuation is estimated at \$20 million.

Fire Protection Engineer

Clark County, NV

Primarily preformed fire protection services for mega-resorts on the Las Vegas Strip. Duties include review, comment, and approval of fire protection plans. Responsible for malls, atria, theaters and arenas as well as numerous high-rise residential and office towers. Many of these used were consolidated within the mega-resorts, with the remainder free standing structures. Also developed fire protection policies for internal and external use.



RESPONSE TO NATIONAL OR REGIONAL PROGRAM - OMNIA PARTNERS

COMPANY

A. Brief History and Description of the Firm

Bureau Veritas is a multinational corporation with a history which includes over 194 years of providing worldwide regulatory compliance service to industry and governmental agencies. Established in 1828, Bureau Veritas is a global leader in quality assurance, health, safety, and environmental (QHSE) solutions. Recognized and accredited by the largest national and international organizations and with over 75,000 employees globally, the firm has unparalleled resources to manage projects requiring a broad range of expertise across vast geographies. With operations in 140 countries and all continents, Bureau Veritas draws on the synergies between its local teams and dedicated technical centers throughout the world. The firm's local presence allows it to provide timely delivery and exceptional customer service in the most cost-effective manner and it is the top independent environmental consulting firm and largest building inspection firm in the nation.

Within the United States, Bureau Veritas North America, Inc. (BV), incorporated in the state of Delaware, is recognized as being the largest code compliance firm in the nation with over 4,000 employees working out of 100+ offices. Many of the firm's staff have been public agency employees or augmented public agency personnel who know and understand government processes. Consequently, BV is ready to step in immediately at whatever level public agencies require and bring one integrated source to meet their needs.

B. Number and Location of Salespersons, Business Development People, and Project Managers

BV employs over 50 Salespersons and nearly 60 Executive or Senior Level Officials and Managers across multiple divisions throughout North America.

C. Number and Location of Support Centers and Location of Corporate Office

Bureau Veritas North America, Inc.'s corporate headquarters are located at 500 7th Avenue, 8th Floor, New York, NY 10018. The following is a list of the firm's offices and laboratories throughout the United States.

Address	Division	No. of Personnel
1953 Frank Ave., Suite A, Fairbanks, AK 99701	Petro & Minerals	36
5312 Commercial Blvd., Juneau, AK 99801	Petro & Minerals	9
5237 Halls Mill Rd., Building F, Mobile, AL 36619	Commodities	10
4540 E. Main St., Apt. #13, Blytheville, AR 72315	Commodities	7
2921 Hwy 77 South, Suite 19, Marion, AR 72364	Commodities	1
1201 N. 54th Ave., Suites 118, 119 and 120, Phoenix, AZ 85043	Commodities	6
17200 N. Perimeter Dr., Suite 103, Scottsdale, AZ 85255	Building & Infrastructure	16
5905 Capistrano Ave., Units E, F,G, & H, Atascadero, CA 93422	Building & Infrastructure	19
3401 Jack Northrup Ave., Hawthorne, CA 90250	Petro & Minerals	12
220 Technology Dr., Suites 100-110, Irvine, CA 92618	Building & Infrastructure	85
3773 Pacheco Blvd., Suite A, B, C & D, Martinez, CA 94553	Commodities	30
600 N. Rosemead Blvd., Suite 205, Pasadena, CA 91107	Building & Infrastructure	6
1306 Canal Blvd., Richmond, CA	Commodities	1
180 Promenade Cir., Suite 150, Sacramento, CA	Building & Infrastructure	124
9988 Hibert St., Suite 100, San Diego, CA 92131	Building & Infrastructure	37
2539 Williams St., San Leandro, CA 94577	Commodities	3
111 Santa Rosa Ave., Suite 406, Santa Rosa, CA 95404	Building & Infrastructure	8
22934 Lockness Ave., Torrance, CA 90501	Commodities	38
250 N. Westlake Blvd., Suite 150, Westlake Village, CA 91362	Building & Infrastructure	21

Address	Division	No. of Personnel
4350 Oakes Rd., Suite 520 and 521, Davie, FL 33314	Commodities	12
1422 S. Narcoossee Rd., St. Cloud, FL 34771	Building & Infrastructure	14
1601 Sawgrass Corporate Pkwy., Suite 400, Sunrise, FL 33323	Corporate	52
3904 Corporex Park Dr., Suite 145 & 135, Tampa, FL 33619	Commodities	18
1000 Cobb Place Blvd., Suite 210, Kennesaw, GA 30144	Industry CAD	5
3380 Chastain Meadows Pkwy., Suite 300, Kennesaw, GA 30144	Industry CAD	81
1096 Rogers St., Savannah, GA 31415	Commodities	7
151 E. Lathrop Ave., Savannah, GA 31415	Commodities	9
3385 Martin Farm Rd., Suwanee, GA 30024	Petro & Minerals	37
841 Bishop St., Suite 1290, Honolulu, HI 96813	Building & Infrastructure	3
2450 Hassell Rd., Hoffman Estates, IL 60169	Petro & Minerals	33
95 Oakwood Rd., Sections A, B, and E, Lake Zurich, IL 60047	Industry CAD / Food	88
4343 Commerce Ct., Suite 112, Lisle, IL 60532	Transportation & Infrastructure	32
1404 Joliet Rd., Suite G, Romeoville, IL 60446	Commodities	12
22201 W. Innovation Dr., Olathe, KS 66061	Industry CAD / Food	14
4400 Olympic Blvd., Suite 4490, Erlanger, KY 41018	Commodities	12
11725 Cloverland Ct., Suite D, Baton Rouge, LA 70809	Commodities	26
102 1st St., Duson, LA 70529	Petro & Minerals	17
5051 Taravella Rd., Marrero, LA 70072	Commodities	15
146 Apple St., Norco, LA 70079	Commodities	2
101 Widgeon Dr., St. Charles Parish, LA 70087	Commodities	47
384 N. Post Oak Rd. (f/k/a 125 N. Post Oak Rd.), Sulphur (Lake Charles), LA 70663	Commodities	6
330 Lynnway, Building A, Lynn, MA 1901	Industry US	5
10461 Mill Run Cir., Suite 1100, Owings Mills, MD 21117	Building & Infrastructure	729
22345 Roethel Dr., Novi, MI 48375	Industry CAD	44
11973 Westline Industrial Dr., Suite 100, Floor 1, Maryland Heights, MO 63146	Building & Infrastructure	141
11111 Carmel Commons Blvd., Suite 110, Charlotte, NC 28226	Building & Infrastructure	74
760B Fairfield Ave., Kenilworth, NJ 07033	Transportation & Infrastructure	11
1301 W. Blancke St., Linden, NJ 07063	Commodities	14
2175-B Wildwood Way, Elko, NV 89801	Petro & Minerals	13
500 S. Rancho Dr., Suite 16, Las Vegas, NV 89106	Building & Infrastructure	11
605 Boxington Way, Suite A-101, A-110, 106 and 107, Sparks, NV 89434	Commodities	79
500 7th Ave., Space 09A120, New York, NY 10018	Transportation & Infrastructure	62
510 E. Memorial Rd., Suite A-1 and A-2, Oklahoma, City, OK 73114	Building & Infrastructure	15
8282 S. Memorial Dr., Suite 104, Tulsa, OK 74133	Industry US	24
9700, 9730, 9740 SW Nimbus Ave., Suite 9700, Beaverton, OR 97008	Audit, CER & Assurance	151
1514 Route 28, Brookville, PA 15825	Building & Infrastructure	2

Address	Division	No. of Personnel
790 Parkway Blvd., Suite C-2, Broomall, PA 19008	Building & Infrastructure	53
10733 William Penn Hwy., Unit 4-D and 5-E, Huntingdon, PA 16652	Building & Infrastructure	3
204 Butler Rd., Unit 3, Kittanning, PA 16201	Building & Infrastructure	8
73 Reserve Ln., Room 114, Lewistown, PA 17044	Building & Infrastructure	2
790 Holiday Dr., Pittsburgh, PA 15220	Transportation & Infrastructure	113
105 Government Center Way, Pocono Pines, PA 18350	Building & Infrastructure	5
184 Keiserville Rd., Tunkhannock, PA 18657	Building & Infrastructure	1
245 Calle Rosa Urb. Ferry Barranca, Unit E28, Ponce, PR 00730	Commodities	4
Comercial Marcado con El Numero 2, Ponce, Municipal de Penuelas, PR 00624	Commodities	16
6175 Hwy. 347, Beaumont (Port Arthur), TX 77705	Commodities	55
2700 R.L. Ostos Rd., Brownsville, TX 78521	Commodities	10
4717 Santa Elena, Corpus Christi, TX 78405	Commodities	26
1412 Main St., Suite 320, Dallas, TX 75202	Power	58
3733-3736 Shell Ave., Suite F, El Paso, TX 79935	Commodities	16
100 E. 15th St., Suite 630, Fort Worth, TX 76102	Building & Infrastructure	24
12901 American Petroleum Rd., Unit #2719, Galena Park, TX 77547	Commodities	8
10770 Vinecrest Dr., Houston, TX 77086	Petro & Minerals	18
1300 Hercules Ave., Suite 105, Houston, TX 77058	Commodities	90
16025-C Jacintoport Blvd., Houston, TX 77015	Commodities	25
16800 Greenspoint Park Dr., Suite 300S, Houston, TX 77060	Industry US	15
7420 Security Way, Suite 100, Jersey Village, TX 77040	Industry US	7
1836 Miller Cut Off Rd., La Porte, TX 77571	Commodities	4
2110 S Loop 250 W, Midland, TX 79703	Petro & Minerals	9
141 N. Pasadena Blvd., Pasadena, TX 77506	Commodities	112
250 N. Witter St., Pasadena, TX 77506	Commodities	11
1000 Jupiter Road, Suite 900, Plano, TX 75074	Building & Infrastructure	112
208 Diebel Lane, Point Comfort, TX 77978	Commodities	1
12715 Royal Dr., Stafford, TX 77477	Petro & Minerals	25
3306 Loop 197 North, Texas City, TX 77590	Commodities	30
4031 Estate La Grande Princesse, Unit 40 & 41, Saint Croix, USVI 00820	Commodities	6
8180 Greensboro Dr., Suite 700, McLean, VA 22102	Building & Infrastructure	116
1350 Slater Rd., Suite 6 and 7, Ferndale, WA 92848	Commodities	26
560 Naches Ave. SW, Suite 100, Renton, WA 98057	Building & Infrastructure	2
2119 SE Columbia Way, Suite 208, Vancouver, WA 98661	Commodities	20
N58 W39799 W Hwy 16, Suite B, Oconomowoc, WI 53066	Building & Infrastructure	12

D. Annual Total Company Sales for the Three Previous Fiscal Years

Over the past three years, Bureau Veritas has demonstrated proven resilience to the effects of economic cycles. The firm continues to post positive organic growth while improving its operating margin thanks to its diversified and balanced business portfolio.

(in millions USD)	2021	2020	2019
Revenue	4,981	4,601	5,099

Documentation of these financials can be made available upon request or are available for download here:

https://group.bureauveritas.com/investorsfinancial-information/financial-reports

a. Bureau Veritas North America, Inc. FEIN Number: 06-1689244

b. Bureau Veritas North America, Inc. Dun & Bradstreet Number: 07-841-5114

E. Green and Environmental Policies

BV is proud to adhere to the high standards of the ISO 14001:2015 Environmental Management System. This system is applied to minimize how the firm's operations (processes, etc.) negatively affect the environment (i.e., cause adverse changes to the air, water, or land), ensures compliance with environmentally oriented requirements, and facilitates the continual improvement of the aforementioned areas. This allows BV to assure its clients the provision of more environmentally responsible products and services.

F. Diversity Programs and Policies

A diverse workplace achieved through an inclusive culture is an integral part of Bureau Veritas' identity. The firm has developed organically and through many different acquisitions has established a richness of capability from drawing together people of diverse gender, age, ethnicity, religion, sexual orientation, nationality, education, business background, etc. With operations in 140 countries, there are over 50 different languages spoken within Bureau Veritas.

Promoting, enhancing, and protecting Bureau Veritas' inclusive culture is one of the firm's main priorities as it grows and develops new businesses where remaining at the forefront of industrial innovation is essential for success. The firm monitors, encourages, and promotes diversity within its teams, which is considered a key component for innovation and is necessary for the deployment of the firm's strategy. Additionally, it is important for Bureau Veritas as a whole to reflect the diversity of the global markets in which it operates.

Managers in the firm are expected to protect and enhance inclusive culture by leading through Bureau Veritas' Absolutes and Values and building engaged teams. This means leading with words and actions which attract diverse talent, encourage open dialogue, and create a safe workplace where team member well-being is a priority, such as being a role model for Bureau Veritas Absolutes and Values and taking action when behavior is observed which does not align with said Absolutes and Values.

Bureau Veritas' leadership continually takes action which makes in strengthening its open and inclusive culture. These actions in the *Financial Times'* list of **Diversity Leaders 2020** and the firm's Italy, and Poland being awarded the **Gender Equality European and** in 2018.





Countering Discrimination

Respect for all individuals is one of Bureau Veritas' core values. Upon joining Bureau Veritas, all employees agree to respect differences, which excludes any form of discrimination based on ethnicity, visible differences, religion, gender, heritage, socioeconomic status, age, sexual orientation, marital status, medical condition, disability, or political opinion.

An updated inclusion policy was issued by the firm as recently as 2019. Additionally, Bureau Veritas published its Human Rights policy in 2018 which aims to eliminate all forms of discrimination and to promote, respect, and protect human rights regardless of the country in which the firm operates.

As part of the Bureau Veritas recruitment policy launched in 2016 and reissued in 2019, the firm strives to guarantee equal opportunities in the workplace, along with fairness, diversity, and objectivity in all of its recruitment processes.

Other diversity policies at local levels reinforce these firm policies and help take into account the specific characteristics of each culture. Employee handbooks describing anti-discrimination policies are distributed to employees in several countries (including in the United States) in order to raise awareness.

Achieving Better Gender and Minority Balance

For Bureau Veritas, achieving gender and minority balance is a driver of progress. Women and minorities remain insufficiently represented overall and particularly in senior management positions and governing bodies. Women represented 32.5% of the firm's worldwide headcount at the end of 2019 and minorities represented 35.8%.

The actions Bureau Veritas' leadership have taken to protect and promote its inclusive culture and build diversity are key to the progress made in achieving a better gender and minority balance:

- The percentage of women and minorities in senior management roles has continually increased over the past four years and is consistent with the firm's ambitious goal of 30% of management positions being held by women by the end of 2021. Women and minorities make up 23% of BV junior management positions.
- Achieving a more diverse Executive Committee is a key for success and Bureau Veritas strives to be inclusive of all women and minorities across the globe.

A wide variety of local initiatives are also in place to help achieve Bureau Veritas' gender balance goals. An example of this in North America is the firm offers paternal (maternity) leave benefits providing two-thirds of the employee's basic salary for a period of up to 13 weeks. Additionally, International Women's Day awareness initiatives are held in all Bureau Veritas' operating groups and geographic regions.

G. Certifications

BV does not hold any of the following certifications in the presented classified areas (Minority Women Business Enterprise; Small Business Enterprise or Disadvantaged Business Enterprise; Historically Underutilized Business; Historically Underutilized Business Zone Enterprise).

H. Relationships with Subcontractors

BV is committed to promoting the use of diverse subcontractors and suppliers such as Disadvantaged Business Enterprises, Minority Business Enterprises, Women Business Enterprises, and Service Disabled Veteran Owned Business Enterprises in overall contracting opportunities. The firm will continue to foster strong relationships with DBE/MBE/WBE/SDVOB firms which BV has partnered with in the past in an effort to meet and exceed any requirements which may be established during contract execution. BV has worked with these firms on other projects and knows they will provide capable, experienced, and reliable personnel and services.

In addition to the aforementioned, it is important to mention BV serves as a leader in its commitment to Equal Opportunity in both employment and subcontractor recruitment and hiring practices. Recent examples include:

- Obtaining approval of the firm's EEO/Affirmative Action Plan by the U.S. Department of Labor which undertakes a rigorous audit process.
- Fostering advancement of BV associates through financial reimbursement for advanced education, financial support, and time off for those who sit for their Professional Engineers examination, and formalized in-house training to retain and/or promote minority and female incumbents.
- Providing scholarships and financial support through a variety of professional engineering organizations, such as
 the Society of Hispanic Professional Engineers, the National Society of Black Engineers, and the Society of Women
 Engineers.
- Volunteering within the community, such as revitalizing homes in economically deprived areas, community clean-up, building homes through Habitat for Humanity, and providing shelter through secular and non-secular organizations.
- · Recruiting local under-represented groups by participating at targeted career fairs.

• Proven track record of exceeding DBE/MBE/WBE/SDVOB goals on current and recent projects. On average, the firm achieves an 18% M/W/DBE participation rate for proposals nationwide.

I.Differentiators

- *High business recurrence and visibility*: BV benefits from a protracted level of visibility relative to its operations, given a substantial portion of activity is related to multi-year contracts. In addition, the firm's business has a high renewal rate for existing contracts, demonstrating its proven quality of service performance.
- A strong brand image: BV has built its success from a long-standing reputation of technical expertise, high quality, and integrity. This reputation is one of the firm's most valuable assets.
- Talented staff: BV's employees are the firm's core assets and a differentiating factor. They are chosen for their understanding of local culture, their strong know-how, their passion for the industry they serve, and their embrace of BV's values of integrity, ethics, impartiality, and independence.
- Recognized by accreditation bodies: BV is currently ISO 9001:2015 Certified and IAS AC251 Accredited, which means the firm is subject to regular audits to ensure its procedures, the qualification of its personnel, and its management systems comply with the applicable standards, norms, references, and delegations.
- Scalable organization: With a network of 1,500 locations and a staff of more than 70,000, Bureau Veritas gains efficiencies through back-office and technical sharing. The firm's clients enjoy this benefit because BV is able to handle large volumes of work upon a moment's notice.

J. Litigation, Bankruptcy, or Reorganization

Please understand in the course of Bureau Veritas' business meritless claims arise from time to time. It is the firm's policy not to comment on any current claims or pending litigation. However, without waiving its policy, the firm has no judgments, pending litigation, liens, or claims which would adversely impact the financial stability, insurability, or performance of professional services. As one of the largest firms providing professional testing, inspection, and code compliance services, Bureau Veritas is the recognized leader in its field worldwide. The following is a summary of information the firm can disclose regarding pending/resolved litigation:

- Latuska v. Venkat Sethuraman, Bureau Veritas North America, Inc., et al In the Court of Common Pleas of Clearfield County, PA; Case No. 2015-1004-CD; Start 4/30/16 End 10/20/17; (Confidential Settlement Agreement)
- Wolbert v. Bureau Veritas North America, Inc. In the Court of Common Pleas of Clarion County, PA; Case No. 780 CD 2016; Start 8/8/16 on-going; (Litigation)
- Jeffrey and Chantel Finlaw v. The Ryland Group, Calatlantic Group, Bureau Veritas North America, Inc. and Theresa Bailey In the Circuit Court of the Twentieth Judicial Circuit in and for Lee County, FL; Case No. 17-CA-000703; Start 3/6/17-End 10/3/17; (Closed BVNA Dismissed)
- Scott and Sara Schuster, et al v. Bureau Veritas North America, Inc. The State of Texas, District Court, Tarrant County; Case No. 067-290447-17; Start 2/14/17 On-going; (Litigation)
- Andre and Cathy Fortin v. Columbia Forest Products, Glenn Foster, Mike Couture, Sr., Ralph White, Bureau Veritas North America, Inc., ABC Company and John or Joe Does - State of Vermont, Superior Court (Orleans Unit); Docket No. 30-2-17OSCV; Start 3/13/17 – End 12/5/19; (Confidential Settlement Agreement)
- Triple R Paving v. Broward County, Florida and CH2M Hill, Inc. and Broward County, Florida v. URS Corporation and Bureau Veritas North America, Inc. Circuit Court of the 17th Judicial Circuit, Ft. Lauderdale, Florida; Case No. CACE09048929; Start 6/22/12 8/31/16; (Confidential Settlement Agreement)
- Darian Kaar and Kaar Investment, LLC v. Bureau Veritas North America, Inc., et al In the District Court 431st Judicial District Denton County, TX; Case No. 15-05115-431; Start 1/15/16 End 4/21/17; (Settled for a de minimis amount)

- Allstate Insurance Co. a/s/o Sheila Simmons v. Kal-Tac and Blue Ridge Homes v. Kal's Insulation and Guardian Inspection Services Bureau Veritas North America, Inc. In the Court of Common Pleas of Monroe County, Pennsylvania Civil Division Law; Case No. 10-227-CV 13; Start 4/25/17 End 6/6/17; (Settled for a de minimis amount)
- Restec Contractors v. Bureau Veritas North America, Inc., et al (Cross Complaint) Case No. S-1500-CV-280350; (BVNA Dismissed)
- Allco Inc. and Allco LLC v. Bureau Veritas North America, Inc., et al Cause No. 33673; (Confidential Settlement Agreement)
- FP Willow Ridge Associates v. Bureau Veritas North America, Inc. and Allen Township Court of Common Pleas Northampton, PA; Case No. C48-CV0-2014-2242; Start 10/14/16 End 10/14/16; (Settled for a de minimis amount)
- State Farm Lloyds as Subrogee of Darrell Moseley v. Bureau Veritas North America, Inc., et al 362nd Judicial District Court Denton County Texas; Case No. 15-07619-362; Start 4/20/15 End 1/1/16; (Settled for a de minimis amount)
- Christy Graves, et al v. Arkema Inc.; Richard Rennard; Richard P. Rowe; Andrew Burdett; and Bureau Veritas
 North America, Inc. In United States District Court Southern District Of Texas, Houston Division; Civil Action No. 4:17cv-03068; Start 9/29/17 Ongoing; (Litigation)
- Clifford Null v. McCalmont Township Et Al In the United States District Court for the Western District of Pennsylvania; Case No. 18-CV-01314-DSC; Start 10/22/18 On-going; (Litigation)
- Manuel Gerardo Grajeda v. Thompson & Sitz Framing Corporation In the County Court at Law Number Six El Paso County Texas; Case No. 2018-DCV-4612; Start 12/12/18 On-going; (Litigation)
- National Builders Insurance Company v. Scott Schuster USDC Northern District of Texas Fort Worth; Civil Action No. 4:19-cv-001; Start 2/21/19 On-going; (Litigation)
- Kelli Kinney D/B/A American Barns (Town Of Argyle) (Pre-Litigation)
- AMC West Housing/Tinker AFB (Pre-Litigation)

K. Felony Conviction Notice

BV is not owned or operated by anyone who has been convicted of a felony.

L. Debarments or Suspensions

Please refer to Section J. Litigation, Bankruptcy, or Reorganization.

DISTRIBUTION, LOGISTICS

A. Complete Service and Product Offering

The following pages provide descriptions of the full line of services Bureau Veritas is able to offer to other public agencies through the OMNIA Partners' cooperative purchasing program.

BUREAU VERITAS TECHNICAL ASSESSMENTS LLC



Bureau Veritas Technical Assessments LLC (BVTA) is a professional service consulting firm providing comprehensive architectural, engineering, energy, and environmental solutions. The firm's team includes over 800 building professionals nationwide (with over 60 in the state of Arizona), including Registered Architects, Professional Engineers, Certified Energy Managers, Environmental Professionals, Building Systems Consultants, and Code Compliance Experts.



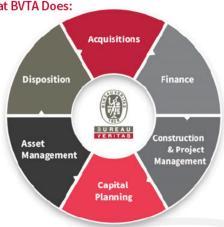
Annually, BVTA conducts thousands of assessments for Government, Residential, Commercial, Industrial, and Educational clients. Having successfully completed billions of square feet of building assessments, BVTA has developed a proven and efficient methodology for the performance of field assessments and data collection.

BVTA's recommendations are based on knowledge of property conditions, life-cycle analysis, regulations, and client objectives. The firm's core of architectural, engineering, construction, environmental, and seismic expertise forms the foundation on which the company teams with clients to create and implement facility management solutions.

BVTA's asset management services include:

- Facility Condition Assessments
- Capital Planning Reports
- ADA Accessibility Compliance
- Equipment and Asset Inventory
- Barcoding, QR Coding, and Tagging
- **CMMS Consulting**
- Preventive Maintenance Plans
- Space Analysis Studies
- **Energy Audits and Modeling**
- Commissioning (Cx and Rx)
- Construction Monitoring
- Project Management
- Plan and Document Review

What BVTA Does:



BVTA delivers services to a myriad of clients all across the United States. A small sampling of the firm's clientele include:

Transportation

City of Seattle DOT

Denver Regional Transportation District Orange County Transportation Authority Salem Area Mass Transit District Illinois Department of Transportation Reno-Tahoe Airport Authority (NV) Miami International Airport

Education

District of Columbia Schools (DC)

University of New Mexico

Texas A&M University

Chicago Public Schools (IL)

Ohio University

University of Nevada - Reno

Page Unified School District (AZ)

Municipal

City of Tucson (AZ)

City of Phoenix (AZ)

Salt River Pima-Maricopa Indian Community (AZ)

City of Aspen (CO)

City of Beaverton (OR)

State of Utah

State of California

BUREAU VERITAS TRANSPORTATION AND INFRASTRUCTURE DIVISION



For over 125 years (including as RW Hunt), Bureau Veritas has provided structural steel, pre-stressed concrete, construction materials, and infrastructure inspection and testing services to State Departments of Transportation (DOT) and the transportation industry. Bureau Veritas operates a dedicated Transportation and Infrastructure Division (T&I) to better serve the Transportation Industry within the U.S. T&I develops solutions to assist clients in managing and mitigating risk on large infrastructure projects, resulting in enhanced project performance through improved overall quality, reduction in project delays, and minimization of rework.



T&I's previous inspection projects for Transportation clients range from pedestrian bridges to fracture-critical cable-stayed bridges. Fabrication for these projects has taken place at numerous fabrication facilities located throughout the U.S. and other countries. The division typically averages over 4,750 Structural Steel and Precast / Pre-stressed Concrete Shop Fabrication Inspection man-hours per week through active contracts. T&I is currently under contract with 32 State DOT's and major Public Transportation Agencies around the U.S. performing technical and professional inspections during the fabrication of Structural Steel, Structural Steel Coatings, Nondestructive Testing (NDT), Precast Concrete and Prestressed Concrete. T&I's established procedures enable the simultaneous administration of multiple contracts while providing required coverage to execute multiple assignments regardless of project length. This division's services typically include:

Non-Destructive Testing involving evaluation of weldments using Ultrasonic, Magnetic Particle, Liquid Penetrant, Eddy Current Surveys, Phased Array Ultrasonic Testing (PAUT), and Radiographic Film Interpretation methods. Also, the division performs reviews of written practices and procedures submitted by fabricators, inspection firms, and others for the qualification and certification of non-destructive testing personnel.

Visual/Welding Shop Inspection involving materials and manufacturing processes used in the fabrication of bridge girders, structural steel, bearings, sign structures, barriers, railings, joint systems, steel grid decking, steel caissons, castings, machined components, and forgings.

Concrete Inspection involving fabrication inspection and witnessing of precast / pre-stressed concrete during the production of members such as pre-stressed haunch girders, concrete "I" girders, bulb girders, segmental box girders, box beams, bridge decking, and precast components such as sound walls, drainage items, and pilings.

Paint/Coatings Inspection involving performing a visual inspection of structural steel coating systems for compliance to the project specifications and manufacturer recommendations. It also involves verification and recording of Dry Film Thickness (DFT) of coatings and inspection of coatings requiring application of paint systems, galvanizing, and metalizing.

Field Inspection involving visual, weld, and non-destructive inspection services during the erection or repair of bridge structures. This includes the ultrasonic evaluation of bridge pins.

BV serves many markets, with the Transportation Industry being of paramount importance, particularly bridge construction and renovation. T&l's expertise in providing inspection services for this industry is unmatched. The division's extensive list of clients includes the Arizona Department of Transportation, Texas Department of Transportation, Nevada Department of Transportation, Virginia Department of Transportation, Michigan Department of Transportation, Kentucky Transportation Cabinet, New York State Department of Transportation, and Port Authority of New York and New Jersey, just to name a few.

BUREAU VERITAS SPECIAL INSPECTION AGENCY



Bureau Veritas' QA/QC, Resident Engineering, and Special Inspection Agency sits at the center of some of the largest building and infrastructure construction projects in the world. The division's team of highly trained Special Inspectors, Managers, and Field Staff have extensive experience in navigating the complicated rules, regulations, and requirements of the International Building Code, local guidelines, as well as city/state agencies and local Department of Buildings in municipalities and cities across the United States.



Efficiency is Bureau Veritas' mantra; with the firm's global reach as a company, it has the unique ability to reduce costs by providing local inspectors anywhere in the world. The firm possesses a proven track record and ability to facilitate issuance of the Certificate of Occupancy (CO) within a timely and cost effective manner. Bureau Veritas holds a full IAS accreditation to perform all inspections required in Chapter 17 of the International Building Code (IBC), as well as inspectors which hold certifications through AABC, ACI, AWS, ICC, NEBB, NICET, PCI, and state certified Professional Engineers and Registered Architects. The firm's expertise is preeminent in all facets of construction, which include, but are not limited to:

- Soils and Geotechnical
- Deep Foundation Elements (Piles/Caissons)
- Structural Steel
- Wood Construction
- · Concrete Construction
- Masonry Construction
- Mechanical Systems
- Electrical Systems
- Fire Protection and Detection Systems
- · Curtain Wall and Veneers
- Seismic and Wind Resistance
- · Structural Stability
- · Energy Conservation
- ASTM and AASHTO Testing

The firm's Concrete Testing Laboratory maintains AASHTO and CCRL accreditations for concrete, soils, and masonry. Communication is a key element in maintaining continuity throughout the construction process from beginning to end, and through communication and a talented management team with great leaders in the field, Bureau Veritas has the ability to facilitate completion of the project and make it successful for all stakeholders involved.

Due to the firm's reach it is able to provide services all across the United States for several client and project types, as BV employs an inspection team which is local to the project and is well versed in local codes, rules, and regulations. To supplement and provide value to clients across the board, Bureau Veritas has a robust team of Local Minority and Women Owned Business Enterprises partners which the firm is able to tap into based on the goals set forth by the project team. Implementation of these partners will cover any requirement which a project might have as well as insure a subject matter expert is always available.

Bureau Veritas Special Inspection Agency has had the opportunity to deliver services for a number of high profile new infrastructure, building construction, and major renovation projects including **The World Trade Center** (New York, NY), **Newark Liberty International Airport** (Newark, NJ), **LaGuardia International Airport** (Queens, NY), **Allegiant Stadium** (Las Vegas, NV), **O'Hare International Airport T-5** (Chicago, IL), and **Citizens Bank Park** (Philadelphia, PA).

ONECIS/BUREAU VERITAS PRESSURE VESSEL INSPECTIONS



OneCIS Insurance Company (OneCIS), A Bureau Veritas Company, provides a total solution to all your inspection and quality control needs. Whether you require prompt turnaround with an inspection, or a quick answer to a technical question, OneCIS delivers.

A market leader in the inspection field, OneCIS is the right choice for businesses which manufacture, repair or alter boilers and pressure vessels. In addition to the firm's core business of ASME inspections, OneCIS supports international code work, European Pressure Equipment Directive (PED) CE Marking, DOT and source inspection activities around the world.



With expert knowledge of code requirements, inspection techniques and quality control systems, OneCIS inspectors are the most skilled in the business. All of the firm's inspectors are commissioned by the National Board of Pressure Vessel Inspectors as Authorized Inspectors or Authorized Nuclear Inspectors. OneCIS staff also includes Certified Welding Inspectors (CWI) and American Petroleum Institute (API) inspectors.

OneCIS participates on committees of the American Society of Mechanical Engineers, the National Board Inspection Code, and the Pressure Vessel Manufacturers Association. The firm shares its expertise with its clients in face-to-face discussions and through educational programs, including seminars and in-house training. OneCIS believes in providing its clients with the most competent, cost efficient and responsive service. The firm considers its clients first in any action taken and supports them with an entire organization dedicated to their success.

Infrared Inspections

Considering today's fast paced business climate, it's imperative that you know the condition of your facilities electrical equipment. An untimely failure of this equipment can result in a significant business interruption or property damage loss. One of the best tools you can use to help ensure the safe and reliable operation of your facilities electrical system is infrared (IR) thermography.

An infrared thermography survey of your facilities electrical equipment is recommended by most electrical contractors on an annual basis and may even be recommended or required by your insurance carrier or local jurisdiction.

For both our highly protected risk (HPR) and non-HPR clients, Bureau Veritas services are an integral piece of the overall corporate risk solution and/or predictive/preventive maintenance programs. This service is designed to ensure the safe and reliable operation of electrical equipment and manage cost, business interruption, and any potential catastrophes.

Our technical and regulatory expertise helps organizations create safer environments in their operations. Bureau Veritas technicians are highly skilled and our expert knowledge of code requirements can help keep you compliant with your insurance carrier or with your local jurisdiction.

All of our technicians are ASNT SNT-TC-1A certified thermographers, which are strategically located throughout the United States in order to give you the best and most efficient service possible. We also possess the ability to provide service outside of the continental United States.

BUREAU VERITAS NATIONAL ELEVATOR INSPECTION SERVICES



Bureau Veritas National Elevator Inspection Services (BVNEIS) offers consulting services encompassing all phases of vertical transportation systems. The division's diversified experience and skilled, professional personnel are welcome members of the architectural design team because they are current with the latest technology and code requirements. NEIS was founded in 1967 and became part of the Bureau Veritas team in 2006. The division is the nation's largest and most qualified conveyance inspection services agency.



BVNEIS provides safety inspections and test witnessing for all forms of vertical transportation according to ASME codes as well as city, state, and country regulations. The division's service operations cover all 50 states as well as Puerto Rico and Guam and is comprised of over 130 QEI Inspectors and Consultants and 155 employees serving more than 17,000 clients.

BVNEIS understands the way people interact with buildings, and how all of a building's systems come together to enhance its overall use and effectiveness. This insight is used to consult on all facets of design, maintenance, and sustainability of vertical transportation. The division assesses, advises and recommends strategies for designing and maintaining elevator and escalator systems (vertical and horizontal transportation), throughout new and existing facilities.

BVNEIS provides services for a variety of vertical conveyances including elevators, escalators, moving walks, and other vertical transportation. The services this division provides are as follows:

Design	Modernization	Maintenance	Acquisition
Traffic Analysis	Equipment Survey	Contract Review/Preparation	Asset Review
Construction Documents	Code Compliance Review	Equipment Assessment	Capital Planning
Bid Assistance/Tendering	Specifications	Performance Reporting	Acquisition Report
Construction Services	Bid Assistance/Tendering	Bid Assistance/Tendering	
	Construction Services		

BVNEIS's extensive list of clients include such agencies as the **New York City Department of Education**, **United States Postal Service**, **University of California at Berkeley**, and **Loudoun County (Virginia)**, among many more.

B. Distribution of Products/Services Locally, Regionally, or Nationally

As exhibited in the list of offices and laboratories provided in the *Number and Location of Support Centers and Location of Corporate Office* section contained within the previous pages of this submittal, BV brings to the table extensive geographic coverage with regards to the provision of services not only in the United States but also in U.S. Territories and Outlying Areas. Furthermore, the Bureau Veritas' global presence gives it the capacity to be a preeminent provider of quality assurance, health, safety, and environmental (QHSE) solutions worldwide.

BV is committed to the provision of services of the very highest quality. This means the firm has the capacity to seamlessly augment its staffing and resources, if needed, to ensure a project is appropriately supported and effectively fulfilled. The firm's more than 4,000 professionals are spread throughout the United States, making it possible for it to have highly qualified technical experts available expeditiously even for the most remote project.

C. Matching of Master Agreement Offering to Other Participating Agencies

On a case by case basis BV will assess the firm's Master Agreement offering and review the opportunity to match this to other Participating Agencies so Participating Agencies can work towards ensuring compliance with the Master agreement and maintain records to auditable standards.

D. Other Companies Which May be Involved

In an effort to strive for service delivery of the very highest caliber BV will assess each contract and project and aim to augment its in-house team with the most appropriate subcontractor partner(s) on a case by case basis. The firm has collaborated with an extensive network of subcontractors throughout the United States and globally and is fully prepared to leverage these partnerships to best serve both current and future clients.

E. Number, Size, and Location of Operations

Please see the list of offices and laboratories provided in the *Number and Location of Support Centers and Location of Corporate Office* section of this submission.

MARKETING, OUTREACH, AND/OR SALES

A. Ninety-Day Implementation of Master Agreement Plan as Primary Go To Market Strategy

During contract negotiations BV respectfully requests the opportunity to discuss the implementation of the Master Agreement with OMNIA Partners in an effort to develop a plan which is not only mutually beneficial but also within the required standards and legal parameters of both parties. As a global firm, BV is required to adhere to a set of systems when it comes to the establishment of Master Agreements and an open dialog with OMNIA Partners will be the most advantageous and efficient method of solidifying an implementation plan.

B. Ninety-Day Plan to Market Master Agreement to Current Participating Public Agencies

During contract negotiations BV respectfully requests the opportunity to discuss the implementation of the Master Agreement with OMNIA Partners in an effort to develop a plan which is not only mutually beneficial but also within the required standards and legal parameters of both parties. As a global firm, BV is required to adhere to a set of systems when it comes to the establishment of Master Agreements and an open dialog with OMNIA Partners will be the most advantageous and efficient method of solidifying an implementation plan.

C. Transition of Existing Public Agency Customers' Accounts to Master Agreement

On a case by case basis BV will assess existing Public Agency customers' accounts and determine the feasibility of transitioning said accounts to the Master Agreement available locally, regionally, and/or nationally through OMNIA Partners. Bureau Vertias North America, Inc. is a firm which is comprised of multiple divisions delivering services to numerous clients in different sectors across the United States. There is opportunity for these other divisions to also be brought to the table during this discussion so their Public Agency customers' accounts can also be evaluated.

BV holds a cooperative contract with Choice Partners, a division of Harris County Department of Education. Once a Master Agreement has been established with OMNIA Partners an analysis will be made as to how these contracts could potentially be positioned among each other.

D. Use of Logos

On a case by case basis and with permission from BV, the firm will provide its logo to OMNIA Partners for use in marketing communications and promotions. The firm understands the use of OMNIA Partners logo will require permission for use as well.

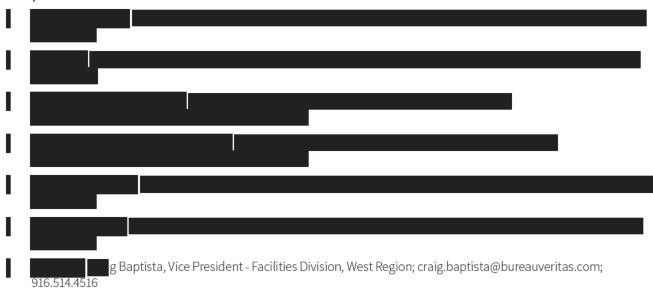
E. Direct Sales of Services to Public Agencies Nationwide and Timely Follow Up

As applicable, BV will make an effort to be proactive in direct sales of its services to Public Agencies nationwide and the timely follow up of leads established by OMNIA Partners. On a case by case basis BV will use the OMNIA Partners logo on sales-type materials. Furthermore, when applicable, BV's business development and/or sales initiatives may communicate: Master Agreement was competitively solicited and publicly awarded by a Principal Procurement Agency; Best Government Pricing; No cost to participate; Non-exclusive.

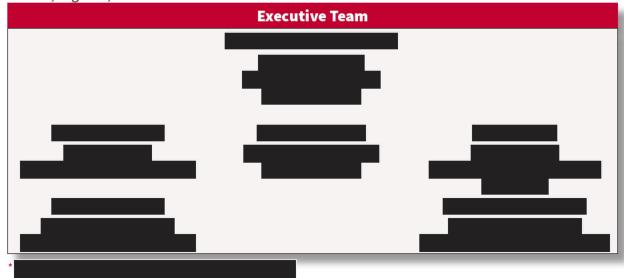
F. Training Local, Regional, or National Team on the Master Agreement

As applicable, BV will train its local, regional, and national team on the Master Agreement. Sales training may include: Key features of the Master Agreement; Working knowledge of the solicitation process; Awareness of the range of Public Agencies which can utilize the Master Agreement through OMNIA Partners; Knowledge of benefits of the use of cooperative contracts.

G. Responsible Parties



H. BV's Local, Regional, or National Team Structure



I. How the Sales Team will Work with OMNIA Partners Team

Leo DePaola, Vice President of Sales - Facilities Division will work his counterparts in other BV divisions to implement, grow, and service the local, regional, and/or national OMNIA Partners program.

J. How BV will Manage the Overall Local, Regional, or National Program Throughout the Term of the Master Agreement

BV has a robust team of marketing and sales professionals who will be prepared to manage the overall local, regional, or national program throughout the term of the Master Agreement. While BV respectfully requests the opportunity to discuss the full logistics of program management during contract negotiations the firm states it does have ample resources and personnel to effectively manage the overall local, regional, or national program and facilitate timely contract administration.

K. Public Agency Sales for the Previous Fiscal Year

Bureau Veritas' overall company sales have been provided in the *Annual Total Company Sales for the Three Previous Fiscal Years* section on page 60 and the firm's overall financial report can be downloaded here: *https://group.bureauveritas.com/investorsfinancial-information/financial-reports*. BV has been fortunate to serve hundreds of Public Agencies across the United States including the County of Los Angeles (CA), City of Houston (TX), District of Columbia - Department of Consumer and Regulatory Affairs, Palm Beach County (FL), and Tobyhanna Township (PA), just to name a few.

L. Information Systems Capabilities and Limitations Regarding Order Management

BV is able to accept multiple forms of payment including credit card and Automated Clearing House (ACH). To ensure optimal administration of the main functionalities of contract management and the facilitation of billing related quality assurance BV utilizes FLEX, a software developed by J.D. Edwards World Solution Company. FLEX is a reference repository which is comprised of all billing and contractual information (invoices, work assignments, expenses, labor reports, project reports, etc.). This state of the art system assists BV in implementing and maintaining a number of budget and cost control processes which:



- Ensures data integrity and allows for a flexible and secure billing process
- Enhances billing efficiency and productivity
- Minimizes revenue leakage by monitoring its sources through control reports

FLEX ensures contract and budget control via standardized features and alignment of project information in real time. Additionally, the system is designed to promote contract follow up from project outset to closing which helps to establish and maintain optimal communication.

M. Strategy for Responding to Different Solicitations

On a case by case basis BV will evaluate circumstances where Public Agencies issue their own solicitations but still desire to use a cooperative agreement and will work towards facilitating strategies when responding to these solicitations which are beneficial for all parties involved.

ADDITIONAL NOTES

- During contract negotiations BV respectfully requests to discuss the full OMNIA Partners Agreement and the associated requirements
- BV is unable to respond to some of the OMNIA Partners provisions due to conflicts with legal obligations.



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SERVICES AND QUALIFICATIONS OF THE FIRM

Brief History of the Firm

Bureau Veritas is a multinational corporation with a history which includes over 194 years of providing worldwide regulatory compliance service to industry and governmental agencies. Established in 1828, Bureau Veritas is a global leader in quality assurance, health, safety, and environmental (QHSE) solutions. Recognized and accredited by the largest national and international organizations and with over 75,000 employees globally, the firm has unparalleled resources to manage projects requiring a broad range of expertise across vast geographies. With operations in 140 countries and all continents, Bureau Veritas draws on the synergies between its local teams and dedicated technical centers throughout the world. The firm's local presence allows it to provide timely delivery and exceptional customer service in the most costeffective manner and it is the top independent environmental consulting firm and largest building inspection firm in the nation.

Within the United States, Bureau Veritas North America, Inc. (BV), incorporated in the state of Delaware, is recognized as being the largest code compliance firm in the nation with over **4,000 employees** working out of **100+ offices (including an office located in Scottsdale, AZ)**. Many of the firm's staff have been public agency employees or augmented public agency personnel who know and understand government processes. Consequently, BV is ready to step in immediately at whatever level the City of Tucson requires and bring one integrated source to meet its needs.

BV has an extensive background in plan review, building permitting, and inspection services. The firm's range of experience in this unique arena covers literally every key area of service defining a building department in today's industry. The firm is skilled at helping existing building departments augment, refine their current level of client service, or craft a department from the ground up.

Size of Firm/Staff

BV has ample resources to deliver high quality on-call plan review services to the City of Tucson. The firm's ambition for excellent customer and employee rapport has led to continuous growth of exceptional staff and client retention.



75,000

Employees Worldwide



4,000

Testing, Inspection, and Certification Experts in the United States



Offices and Laboratories in 140 Countries



What Sets Bureau Veritas North America, Inc. Apart

BV understands while the company offers a wide range of services, not every client needs the same solutions. The firm's ability to offer a variety of customizable services for each client makes BV an ideal partner. The firm is committed to timely and ongoing communication with the City and is dedicated to working closely with stakeholders to address deficiencies in an effort to expedite the plan review process. BV's team will consistently share best practices and discuss resolutions to code interpretations and deficiencies. BV is justly suited to provide consulting services because the firm is solution oriented and possess:

Unparalleled Building Safety and Code Consulting Expertise

- Proven turnkey engineering and building safety track record to more than 500 agencies nationally
- Project management and staff augmentation expertise
- Key staff which have assisted in the development and implementation of the latest codes

Depth of Resources and Proximity to Meet Peak Workloads

- 100+ offices throughout the United States with an established presence in the state of Arizona
- Arizona registered engineers and ICC certified staff with extensive code compliance expertise and experience
- USGBC LEED review certifying body

Best Practices and State-of-the-Art Processes to Consistently Meet Turnaround Schedules

- First U.S. firm to achieve IAS Certification for third party accreditation (Plano, TX)
- Comprehensive and formalized plan review procedure
- Award-winning web-based project tracking and controls
- A commitment to early and ongoing communication including pre-submittal meetings, one-on-one reviews, etc. to expedite the approval process
- Electronic plan review to save time, money, and paper a GREEN solution
- 99% success rate meeting review turnaround schedules

Putting the Right People to Work for You

BV has extensive resources and a large pool of licensed and certified experts who are equipped to handle all of City's needs. The firm's professionals have extensive experience in residential, commercial, industrial, and other related projects of all sizes and complexities, allowing them to tailor solutions specifically to client requirements.

Competence Through Certification - International Code Council

Building safety depends on more than codes and standards. Service levels of the highest quality result from providing trained professionals with the resources and ongoing support necessary to stay current with the latest advancements in the building safety field. ICC certification ensures competent building and fire safety individuals are involved in the critical building approval process. It also helps to continue attracting an increasing level of competence and professionalism into the building code community. The ICC certification represents the BV team's commitment to providing professional and qualified plan review staff to the firm's clients.

Master Code Professional - The Gold Standard

Multiple members of the BV team have earned the Master Code Professional designation. As the highest level of certification the International Code Council has to offer, the Master Code Professional (MCP) designation has become the gold standard for demonstrating proficiency in the building and fire safety profession. Earning the MCP credential is a significant personal accomplishment as well, requiring successful completion of an extensive series of objective and written examinations. Many of the examination credits are from core certifications, covering the areas of Residential Building Inspector, Commercial Building Inspector, Commercial Electrical Inspector, Commercial Mechanical Inspector, Commercial Plumbing Inspector, Building Plans Examiner, Accessibility Inspection Plans Examiner, and Certified Building Official. The remaining credits are electives selected from a variety of areas such as Fire Inspector, Commercial Energy Inspector, Electrical Plans Examiner, Property Maintenance and Housing Inspector, and others.

Certification Through Multiple Accrediting Bodies

The following is brief selection of accreditations and certifications which speak to the firm's qualifications.

IAS AC 251 Accreditation

In October 2010, Bureau Veritas proudly became the first company to achieve accreditation under the International Accreditation Service (IAS) Third-Party Permitting, Plan Review, and Inspection Service Providers Accreditation Program (AC



251). AC 251 outlines requirements for the accreditation of third-party non-governmental providers of building department services and thus recognizes the important role private firms play in ensuring public safety. The goal of this program is to provide accreditation to independent providers of building department services based on quality management principles and best practices, to ensure the outstanding safety record of buildings in the U.S., as compared to buildings elsewhere in the world, is maintained. Building departments can use the IAS program to verify the companies they hire are qualified to provide building safety services for the jurisdiction. For Bureau Veritas, accreditation is a way to provide independent verification of its established quality procedures and best practices which have been an integral part of the company since its founding in 1828.

For Bureau Veritas to achieve IAS accreditation, evaluators assessed Bureau Veritas across several distinct categories including code administration, construction codes, plan review processes, professional credentials and licensing, and inspection procedures. In addition, IAS also assessed critical elements of the services provided to jurisdictions such as contract details, operational procedures and plans, and fiscal year budgets. The International Accreditation Service is a nonprofit, internationally recognized accreditation body and a subsidiary of the International Code Council (ICC).

IAS accredits building departments, third-party building department service providers, special inspection agencies, product certification agencies, inspection programs for metal building manufacturers, fabricator inspection programs, testing and calibration laboratories, inspection agencies, training agencies, curriculum developers, and field evaluation bodies.

Management Systems Certified

As a world leader in Testing, Inspection, and Certification, Bureau Veritas provides its clients with solutions to meet their quality, health, safety, environmental protection, and social responsibility (QHSE-SR) objectives. Bureau Veritas

prides itself on its commitment to these principals, and has obtained global certification to each of the following International Management Systems Standards:

- ISO 9001:2015 Quality
- ISO 14001:2015 Environmental
- OSHAS 18001:2007 Health and Safety







Plan Review Services Overview



Building Department Plan Review

BV personnel have performed and managed plan review and inspection services for thousands of projects. Project types include high-rise hotels and office buildings, institutional occupancies such as jails, shipping facilities, room additions, single-family tract and custom homes, tilt-up shells, tenant improvements, and public infrastructure (roads, wet and dry utilities, etc.). The firm's staff has considerable review experience of virtually any structure requiring permits, plan reviews, and inspections. With such a large and licensed plan review staff, BV is able to manage numerous and complex projects simultaneously. The firm is able to provide discipline-specific plan reviews (e.g., structural, mechanical/plumbing, electrical, fire, access, street, drainage, map, civil infrastructure, etc.).

BV possesses extensive resources and a large pool of licensed and certified building safety experts who are equipped to handle all of the City's needs, including Internal 2nd Party Plan Review, Bundled 2nd Party Plan Review, and/or External 3rd Party Plan Review. Our professionals have considerable experience in commercial, residential, industrial, energy, and institutional projects of all sizes and complexities, allowing them to tailor solutions specifically to the City's needs. BV and its proposed, locally-based personnel for this contract have a long-established history working for the City of Tucson and nearby municipalities to perform outside plan review and inspection services. Consequently, the firm can leverage a breadth of code

compliance and permit processing expertise to meet the needs of the City, and offer highly qualified engineers and ICC certified staff who are in close proximity to quickly respond to the City's needs.

As the largest plan review and inspection firm in the United States, BV has a breadth of personnel to be immediately accessible and available to the City. The firm's partnership with the City will be managed from its Scottsdale office enabling quick and efficient responses in order to provide the customers of the City of Tucson with the highest standard of customer service. BV's Scottsdale office will be responsible for the implementation of this contract. For over 40 years BV has provided comprehensive municipal consulting.

The firm has the capacity to continue delivering the following plan review and inspection services to the City of Tucson:

- Architectural, fire and life safety plans examination
- · Structural plans examination
- Energy code plans examination
- · Accessibility requirements including:
 - » Barrier free plans examination requirements
 - » Disabled access
 - » ADA
- Mechanical, plumbing, and electrical code plans examination
- Review and approval of alternate materials, alternative design and methods of construction
- · Fire plan review including:
 - » Fire sprinkler/fire alarm
 - » Smoke detection and dampers
 - » Underground
- Green Building and LEED consulting including:
 - » LEED submittal consultation
 - » Green building consulting
 - » ENERGY STAR verification
 - » Energy efficiency audits
 - » Solar Review
- Civil plans examination including:
 - » Grading and drainage
 - » NPDES/SWPPP
 - » Development
 - » Infrastructure
 - » Water and wastewater
 - » Sewer

Civil Engineering Plan Review - Plan Review Compliance Standards

As an initial step, BV's professional staff familiarize themselves with all city, state, and federal requirements applicable to the project before beginning a review. Requirements for civil infrastructure originate from multiple sources including statutory requirements, local ordinances and design guidelines, federal requirements including ADA and NPDES, state requirements, and the requirements of any affected utilities, districts, or agencies.

Civil infrastructure and site plans are reviewed for conformance to the following quality standards:

- Greenbook
- Geotechnical Report recommendations
- Conditions of Approval of the use permit or Tentative Map
- Municipal Code and local ordinances
- Jurisdiction's design guidelines and standard plans and specifications
- ADA accessibility standards
- NPDES C.3 requirements when applicable
- Environmental mitigation requirements
- Requirements of affected outside agencies and utility districts

The firm's professional plan reviewers will provide a comprehensive assessment of the conformance of submitted improvement plans to these quality standards.

Improvement Plan Review Tasks

The following outlines BV's typical scope of services for the review of plans:

- Check design for conformity to the approved tentative map and conditions of approval
- Evaluate the layout for consistency with the final map
- Review grading plans for consistency with the applicable drainage standards and grading ordinance
- Erosion and sediment control provisions
- Storm Water Pollution Prevention Plans
- Review horizontal and vertical alignment of streets for conformance to the applicable street design standards, check pavement structural section against geotechnical recommendations
- Review storm and sanitary sewer systems and hydrology/ hydraulic calculations
- Review water distribution system for fire hydrant and valve spacing
- Street light spacing, and location for potential conflicts
- Review underground utilities for crossing clearances and conflicts

- Review for compliance with outside agency requirements
- · Review quantities, estimates and schedules

Prompt turnaround of quality plan reviews is the hallmark of the firm's service. Ideally, the review process involves no more than two plan submittals, perhaps three under extraordinary circumstances. To achieve this, it is important for the plan reviewer to see the "big picture" during the approval process, and to expedite the review, while assuring adherence to all City standards and requirements.

At the completion of each review, comments noting any deficiencies are prepared for the Applicant. Review comments may be distributed by the City staff, or directly to the Applicant by BV, depending on the City's preference. Copies of review letters are always forwarded to the City for its records and files. BV's customary practice is to provide comments in narrative form in a memorandum. The firm finds this method to be more precise than just marking the submittal alone. Additionally, this method facilitates the transmission and preservation of comments in electronic format.

Development Review and Entitlement Processing

Accurate and timely civil engineering plan and final map reviews facilitating land development projects requires a strong public-private partnership. Project momentum must be balanced with engineering, water quality, traffic, public safety, and final map plans which comply with applicable codes, requirements, and design standards. The various parties need impartial counsel from registered engineers and land surveyors and quick turnaround of review comments in a seamless manner. Development review and entitlement processing involves working seamlessly with the public agency and developer in the preliminary planning stages to facilitate development agreements along with the review of civil engineering plans and maps for conformance with conditions of approval along with local and other applicable ordinances and standards. All work is performed under the direction of a registered Civil Engineer or Land Surveyor. BV utilizes proven best practices, staff specialists, and comprehensive web-based tools to provide timely review, responsiveness, and accurate and detailed review comments.

Fire Plan Review

BV's staff will consult closely with the Fire Chief/Fire Marshal or their designated representative on any areas which require code interpretation or where alternate methods are being proposed and considered. The firm's proposed fire plan review engineers have specific experience working through multiple types of facilities to ensure compliance with applicable codes, standards, and amendments,

including the adopted National Fire Protection Standards and U.L. BV's experience includes written comments and verbal communication with applicants to better understand requirements and provide direction for compliance, as well as close communication with fire departments to clarify policies, code interpretations, plan review status, and procedures.

BV staff have reviewed hundreds of projects for fire safety components including NFPA 13, NFPA 72, NFPA 101, etc. All personnel assigned to the City of Tucson will have available the necessary materials, resources, and training to conduct plan reviews, including copies of applicable local amendments, policies, procedures, and forms.

Inspection Services Overview

BV is dedicated to being client-focused and customizing the work according to the City's specific needs. The firm can provide inspection services for a single



project which presents unique complexities due to its construction or size, or it can provide enough staff to handle all inspection services for an entire jurisdiction. BV's building inspection services can be adjusted to provide a high level of coordination specifically suited to the design-build concept. The firm's inspectors are ICC certified and have extensive experience in the construction trades as well. Fast-tracked projects may be built into small phases based on incremental design and fabrication steps. In such cases, BV's inspection team keeps daily logs to track corrections and plan review changes.

BV's inspection teams also provide on-call building inspection services to cover staff vacation time, peak workloads, specialized inspection activities, and any other situations which may arise. These activities may include next-day inspections and same-day response to important or urgent requests.

Fire Inspection Services Overview

BV can place an experienced fire inspector for a particular project or can augment existing staff to cover vacations and other leaves



of absence. The firm can even provide all fire inspection on a daily basis. Systems and components the firm inspects include (but are not limited to):

- Fire sprinklers, including systems beginning at property line, as directed
- Fire pumps
- Fire alarm systems
- Automatic suppression systems, including Halon, FM200, and CO2
- Hoods
- · Duct extinguishing systems
- Exits
- Emergency Lighting
- · Voice evacuation systems
- Fire permit inspections

Additionally, BV can provide regular inspections of all aspects of the fire permit requirements, whether annually, biannually, triennially, every five years, or any other length of time as mandated by the adopted codes.

Remote Inspection Capabilities

The digital technologies involved in remote inspections have been available for a long time—and have proven in many instances to offer advantages to agencies across sectors who use them to enhance their traditional inspections needs. By deploying remote inspections, agencies can experience significant cost-savings, contributing to their future financial health. BV has been at the forefront of offering these technologies, having deployed remote inspection, remote supervision, and augmented inspection services in multiple use cases and business units around the world. The firm has seen the positive effects of these technologies first-hand and as a result of this will continue to invest in its remote inspection capabilities.

BV understands not all clients are always ready to adopt something radically different, especially when traditional, inperson inspections serve them well. This is why the firm has always remained flexible in the inspections space, delivering the services to its clients which make the most sense with regard to their specific projects and circumstances. In fact, BV remains strong in all of its testing and inspections abilities across North America.

Choosing the Right Remote Inspections Partner and Solution

It may seem daunting at first to transition to remote inspection technologies. There are so many questions to ask: Is the project in a low-bandwidth area? Are advanced collaboration functions required? Is screen sharing and remote picture capture required? Does the agency require remote video be captured by an expert?

These initial questions alone signal why it is critical to engage a partner who has deep experience and capabilities in this space and can advise immediately on the remote technology solution which is best for the agency's long-term needs. At BV, the firm typically advises clients to first select a partner who is technology agnostic, so the solution can be designed specifically around their needs. Because the firm does not adhere to any one technology it is flexible in how it designs solutions, from heads-up-displays (HUDs), to tablets, to IoT, and more.

Next, it is critical for clients to consider their specific situation and the benefits they'd like to see from a remote inspections solution. There is no one-size-fits-all approach. Some of the most important benefits to think about include:

- Any-time remote inspectors, who can scale and solve problems at the agency's convenience
- Ability to share live visuals, talk, or perform inspection tasks from anywhere
- Improvements in efficiency, safety, and cost
- Reduction in the amount of travel required by inspectors, reducing carbon footprint
- Ensuring asset quality by maintaining inspections when regions are impacted by unforeseen circumstances (such as the COVID-19 pandemic)
- Ability to launch real-time global inspections in minutes for faster decisions and faster response
- **Customer participation** in the inspection with ability to annotate and capture video/photos in real-time
- Minimization of the number of inspectors required on a job site to reduce HSE risk and site access training requirements
- Expanded access to BV's extensive network of expert inspectors
- Reduction in travel, mileage, and expenses because of digital collaboration
- Real-time interaction with inspectors during service delivery with on-screen note taking

Finally, the firm advises clients to consider the situations which are ideal for remote inspections solutions. These are particularly useful in the emergency situations. With that said, even without emergency situations, remote inspections can be extremely useful for locations which are difficult to access, or in situations where organizations want to limit their carbon footprint and reap significant cost savings by minimizing travel.

Bureau Veritas' Remote Intelligence Platform

BV's remote inspections capabilities are also part of Bureau Veritas' larger Remote Intelligence Platform. In this broader application deployment, the firm offers augmented and remote inspections to enhance traditional inspection methods as well as to support the fast-changing digital infrastructure of current vendor and client inspection models.

Inspection needs will always change and evolve, and BV is here to make the process seamless for the firm's clients. The time for remote inspections has arrived. From managing assets and supporting datacenter inspections to supporting building and infrastructure clients, oil and gas applications, GSIT groups, industrial inspections, automotive, and more, Bureau Veritas' innovative remote testing and inspections services are designed to carry the firm's clients through every challenge and set them up for continued success.

The firm's remote inspection advantages which it can offer to the City of Tucson are as follows:

- Video calls over low band-width signal (standard remote inspections usually use normal cell reception that requires highbandwidth signals like 4G and 5G).
- High Definition Photographs: Ability to send hi-def photos over weak signals for markup and capture photos and video recordings during a call.
- Telestration: The ability to markup screen images through telestration.
- Camera Zoom: Camera zoom functions and ability to turn on phone flashlights and adjust bandwidth without field user input.

Permit Technician Services Overview

BV is available to work and build positive relationships with the City 's staff to seamlessly staff the public counter, issue counter permits, answer plan review or inspection questions, and assist the public with a high level of customer service. BV has the ability to provide the City of Tucson with ICC certified Permit Technicians and services may include, but are not limited to, the following:

 Interface with the public, internal staff, and related departments and assist with building, planning, engineering, and fire permit requirements, applications

- and permit fees, application filing procedures and processing, and permit status
- Review permit applications for completeness
- Accept, login, and route plans
- · Calculate and/or collect fees
- Issue permits
- · When authorized, review and issue counter permits
- Maintain permit records
- Use jurisdiction permitting programs and/or software
- Provide assistance with general office and administrative duties as assigned

Quality Assurance Program

All BV associates share the responsibility for continual improvement of the firm's quality management process and believe the program, supported by the BV business model and its code of ethics, will ensure the continual delivery of high quality products and services to the City of Tucson. In doing so, the firm will establish itself as City's preferred supplier in conformity assessment and certification services in the fields of quality assurance, health and safety, environment, and social responsibility (QHSE).

The firm's quality management system provides the framework for continual improvement of its internal management processes and resources which will in turn add value for the City through the services offered and delivered. In addition, BV's quality management system gives the company and the City the confidence that the provision of services and products will be delivered consistently to predetermined high standards worldwide.

Budget Controls and Billing Related Quality Assurance -FLEX

Budget control is achieved by closely monitoring work assignment labor and direct expenses. Work reports must be completed by each individual



and the labor hours must be approved by the project manager before being charged to the City. Similarly, expense reports and other direct expenses must be approved by the project manager prior to entering the cost data system.

To ensure optimal administration of the main functionalities of contract management and the facilitation of billing related quality assurance BV utilizes FLEX, a software developed by J.D. Edwards World Solution Company. FLEX is a reference repository which is comprised of all billing and contractual information (invoices, work assignments, expenses, labor reports, project reports, etc.). This state of

the art system assists BV in implementing and maintaining a number of budget and cost control processes which:

- Ensures data integrity and allows for a flexible and secure billing process
- Enhances billing efficiency and productivity
- Minimizes revenue leakage by monitoring its sources through control reports

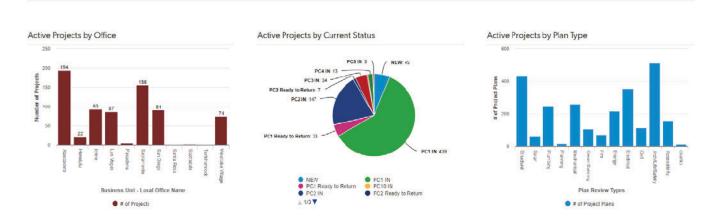
FLEX ensures contract and budget control via standardized features and alignment of project information in real time. Additionally, the system is designed to promote contract follow up from project outset to closing which helps to establish and maintain optimal communication.

Project Management and Schedule Controls - Quickbase Protrack

Work assignment schedules will be managed on several levels. The project manager will maintain regular contact with the City's project manager to communicate the project status and progress on deliverables. In addition, an internal schedule including critical milestones and deliverables due dates will be established prior to initiating the task work. This allows ample time for editorial and technical review, changes, and assurance in schedule compliance.

In order to efficiently and effectively track project workflow BV employs Protrack, a quality assurance software solution created by Quickbase. This custom-built program was developed specifically to meet the needs of the firm and enhance its project management capabilities in service to its clients. Protrack monitors numerous pieces of project data in real time including, but not limited to, project schedule status, active projects by office, project type, number of active projects per client, weekly number of new projects initiated, and much more. The program's dashboard allows users to generate reports which can provide an overall snapshot of BV's current activities or can be filtered to present precise details regarding a specific project or client. The crucial information monitored in Protrack not only aids in maintaining schedules and project turnaround times but also gives the firm the capacity to make decisive course corrections which ensure deliverables of the highest caliber and complete customer satisfaction. Furthermore, Protrack is designed to work collaboratively with BV's billing and invoicing software, FLEX, to enable the consistent completion of projects on-time and on-budget.

Bureau Veritas North America - Facilities Division - Viewer Dashboard



Utilization of Subcontractors

BV possess the personnel and resources to required to fulfil the City of Tucson's scope of work in its entirety and will not be collaborating with any subcontractors for the execution of this contract.

Specific Qualifications

Included on the following page are copies of Bureau Veritas' ISO Certifications which provide evidence of the firm's commitment to the delivery of high quality services supported by globally recognized management systems. Additionally, the proposed project teams' applicable ICC Certifications are presented in the *Experience and Qualifications of Team* section on pages 4 - 56 of this proposal.

TUV NORD

TUV NORD

CERTIFICATE

Management system as per EN ISO 9001: 2015

In accordance with TOV NORD CERT procedures, it is hereby certified that

Bureau Veritas 8, cours du Triangle 92800 Puteaux France

with the locations / sites according to the annex 2

applies a management system in line with the above standard for the following scope

Please see scope annex 1

Certificate Registration No. 44 10 0 160145 Audit Report No. 3521 8827

Thomas and I TÜV NORD CERT GmbH

This certification was conducted in accordance with the TÜVNCRD CERT auditing and certification procedures and is subject to regular surveillance audits. Validity can be verified at https://www.buvn.ord.de/de/unternehmen/zertifizie.nung/zertifikatsdatenbank

TOV NORD CERT GmbH

Langemarckstraße 20

45141 Fosen



CERTIFICATE

Management system as per EN ISO 14001 : 2015

The Certification Body TOV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021 1:2015, hat the organization

Bureau Veritas 8, cours du Triangle 92800 Puteaux France

with the locations according to the annex 2

operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certifica e

Please see scope annex 1

A Con Strock Certification Body at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH

45141 Essen

www.tuev.nord.gert.gom





BUREA

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AVAILABLE RESOURCES TO COMPLETE THE PROJECT

Plan Review Approach and Methodology

BV's team will work cooperatively with the City of Tucson's internal departments and any and all other outside agencies having jurisdiction. The firm's team will conduct reviews of any deferred submittals as outlined by the International Building Code, the most current and applicable building codes with the respective local amendments, Development Standards, and the Floodplain Ordinance; as well as with the applicable Arizona Revised Statutes; and any other applicable codes and manuals. The plan review team is also able to recommend approval of projects after substantial compliance with the applicable codes has been reached. BV will clearly report all comments to the design team and work with them to facilitate efficient resolution. Upon completion of the plan review process and when it has been determined all comments have been addressed in the plans, the firm shall issue a letter to the City recommending issuance of the respective permit(s).

BV's proposed team familiarizes themselves with the requirements of a public agency before beginning a review. The firm has extensive public sector experience, which assures the public's interests are fully protected. BV believes technical competence, while expected, is not enough. Experience and careful, thorough consideration of issues and impacts is needed in addition to the purely technical considerations. The firm has devoted a great deal of time and effort over the years to refining its approach and developing documentation to assist clients and train staff in understanding plan review procedures.

BV will work to ensure submittals are properly coordinated and tracked by following an established internal plan review coordination process in which each plan received for review is entered into the firm's Protrack database, processed, and returned on time to the City. BV's plan tracking procedures are designed to track each submittal throughout the review process and maintain accurate and comprehensive records for each submittal. To accomplish this the firm will:

- Screen and log each application to assure they are routed to all plan reviewers in a timely manner. The log serves as a tracking device to assure turnaround times and completeness of the review.
- Submittals are reviewed for compliance with all relevant state and jurisdictional requirements.
- Plan reviews will be done in accordance with local, state, and federal regulations with which local jurisdictions are mandated to enforce as well as all codes and ordinances in effect by adoption at the time of plan review. Preliminary consultations will be provided to the applicant upon request, to assist and guide them in the design and plans preparation process.

- Information shown on each permit application is verified.
- Provide a thorough review of design drawings for conformance with the applicable Trade Codes (Adopted Building, Fire, Existing Building, Electrical, Mechanical, Plumbing, Energy Conservation and Outdoor Lighting Codes), Accessibility Standards, General Plan, Land Use Code, Unified Development Code, Development Standards and Floodplain Ordinance, local ordinances, Arizona Revised Statutes, and any other relevant laws and regulations.
- Plan review management
- BV assures corrections are handled as quickly and as clearly as possible. The firm's goal is to help the client through the plan review process. All corrections are identified based on compliance with specified codes and regulations.

Generally, corrections are identified in two ways. Notes are made on plans during electronic review or on hard copy plans, if appropriate, and a correction sheet is generated detailing what items need to be addressed before plans can be approved. The City shall approve the development of any customized correction sheets. Correction sheets for specific projects shall be forwarded to the City along with a cover memo containing at least the following:

- The date(s) plans were received and reviewed by BV
- The date(s) the applicant was notified of completed plan reviews
- The name and telephone number of the applicant

During the plan review process, BV is prepared to meet with the applicant or architect/engineer, City employees, or consultants at any time. Telephone discussions or meetings at the project site are welcomed to assure any plan review issues are handled efficiently. BV's goal is to issue approved plans as quickly as possible and in full compliance with laws, codes, ordinances, and regulations. Upon completion of the plan review, the following information package will be prepared and logged as a minimum and forwarded to the Planning and Development Services Department:

- Completed plan review documents which include signoffs
- A signed transmittal letter documenting any conditions associated with issuance of a permit, if any
- Marked up plan review documents
- Two sets of approved building plans
- Backup documents and reports
- All documents shall be provided in a format desired by the City

Fast Track Plan Review

BV provides plan review activities on a fast-track basis to reduce the impact on project contraction schedules. Turnaround times for each submittal relate to the size and nature of the submittal and impact on the project construction schedule. To reduce turn around times for plan review, the firm uses electronic submittals, phased submittals, conference calling, videoconferencing, and visits by plan review staff to design offices of the engineer or architect.

BV has built long-term partnerships with many agencies and municipalities. The firm understands accuracy, efficiency, and integrity in all aspects of professional services is required. Testimony to BV's professional excellence is the fact it has a large number of repeat clients and client referrals. Because of the firm's large pool of accessible resources it is able to assemble experienced personnel in order to assist with project schedule recovery when necessary. BV also accommodates preliminary reviews to facilitate fast tracked or accelerated projects. This aids with timely turnaround and creates good public relations. The firm's staff makes recommendations for resolutions if requested. The firm also meets with agencies, City staff, and citizens, as needed, to discuss its findings.

Electronic Plan Review Capabilities



BV has the capabilities and processes in place to

review submittals electronically, on paper, or both. Electronic plan review uses a software which presents customers with a convenient alternative solution to printing and delivering paper plans to City offices at zero cost. This modern solution has become especially valuable as municipalities seek to continue service delivery to their communities while focusing on their health and safety during the COVID-19 crisis. The proposed personnel have extensive experience using many commonly used platforms such as Accela, CityTech, ProjectDox, Bluebeam, Central Square, and Cityworks.

By utilizing Adobe Acrobat with electronic plan submittal and commenting, as well as Bluebeam and other software, the firm's plan reviewers can quickly and accurately review plans for compliance with applicable codes; this allows for economical movement of plans and quick turnaround, eliminating shipping time and costs. In this way, electronic plans with comments can be viewed and discussed as needed to resolve issues quickly and efficiently.

As part of this process, plans are first submitted as PDF files via a secure and confidential FTP site in which the City of Tucson also has access. BV's staff then reviews these plans and places comments and redlines directly on the plans, corresponding to areas needing revisions. Next, redlined plans

with comments are forwarded to, or placed on, the secure FTP site for the designers, engineers, and architects. Plans can then be revised and resubmitted via the same method described. Once all items are resolved, hard copy plans are sent to BV for approval stamps and signatures.

Electronic plan submittal and commenting allows for economical movement of plans and quick turnaround. Plans with comments can be viewed and discussed as needed to resolve issues quickly and efficiently.

BV has successfully implemented and utilized digital plan review in over 60 federal, state, and local agencies for multiple years.

Plan Review Quality Control

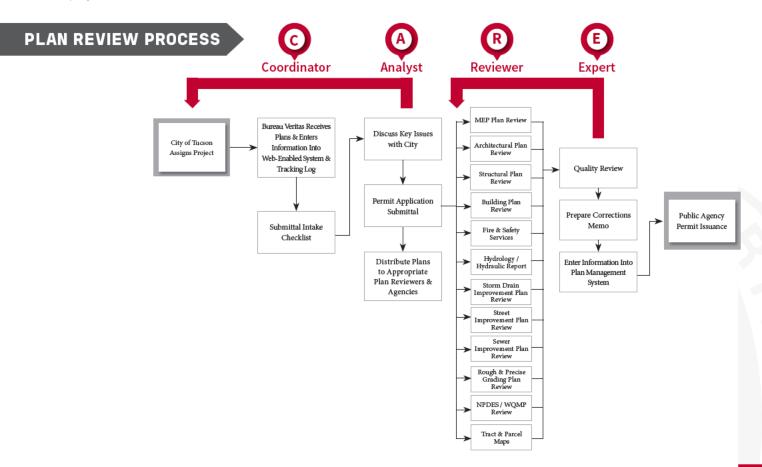
As an ISO 9001 certified firm, BV undergoes systematic, independent audits of its management systems to meet rigorous objectives and provide continuous improvement in key areas. The firm consistently incorporates proven best practices and protocols as part of its quality management system to meet and exceed ever-increasing customer requirements. These tools include implementation of an established quality assurance/quality control program using the BV CARE program for the intake, track, and review of plans to enhance quality and streamline processing/approval; electronic plan review to expedite turnaround times which save time and money; and the utilization of web-based document control system which fosters collaboration, 24/7 access to documents and reports, and enhances overall communication.

To ensure the work assignment is being performed at the highest professional level, BV relies on the management and technical excellence of its personnel and a proven QA/QC program. This assures the quality of all work performed under this contract meets City approval. BV has developed and implemented corporate QA policies, consistent with all applicable federal and state regulatory requirements and standards, covering all aspects of project performance, technical quality, and peer review. These policies are implemented at each professional and technical level to provide a well-balanced, independent QA program, which assures the quality of reports, technical reviews, annuals, and other documentation prepared by BV. This ensures the product is consistent with the established standards from the standpoint of quality, validity, and legal defensibility.

BV's CARE program is a formalized and integrated process whereby Coordination, Analytical, Review, and Expert management/quality control functions are consistently implemented. This system's success is based on thousands of hours of practical experience by the firm's dedicated personnel and their unique ability to interact quickly and

efficiently with the City's staff. BV provides the City with a staff extension which will bind the varying interests of the City's operations, its citizens, and legal and regulatory considerations into a dynamic, flexible working system. The specific roles of each of the CARE elements includes:

- Coordinator BV's clerical staff will handle various administrative functions, such as logging information (project tracking, time budgeting), managing project controls, maintaining and distributing communications, reviewing agendas and ordinance issues, and fielding calls on project status. The Coordinator is the first line of contact for each project submittal.
- Analyst BV's analysts will review submittals, title sheets, and non-design items; maintain files; monitor due dates; monitor contract budget and status tracking reports; and coordinate invoicing. BV analysts also maximize and "right place" staff resources to meet turnaround times in a quality manner. When assigning resubmittals to staff, the Analyst ensures consistency by passing the project to the same reviewer which performed the previous reviews.
- Reviewer BV's experienced plan reviewers will routinely review agency standards, ordinances, guidelines, and
 checklists; create comments letters; coordinate project return with the coordinator; attend review meetings; and
 communicate questions/solutions to project stakeholders. Because of the firm's depth of resources and project
 tools (checklists, corrections letters, etc), reassigned projects can be reviewed without missing deadlines or causing
 unnecessary rechecks.
- Expert BV experts will provide the final quality assurance review of applicable plans, studies, and reports in accordance with all accepted engineering, building codes of different disciplines, and industry professional practices. They will comply with the applicable regulations; visit the client contact regularly; monitor project progress with the reviewer; disseminate project/agency information to the team; train team members; peer review comments letters; and communicate questions/solutions to stakeholders. Additionally, Experts provide quality assurance reviews to each project which minimizes the number of resubmittals.



Inspection Services Approach and Methodology

The firm will provide the City of Tucson with ICC certified personnel to provide the following services:

- Read and study project specifications, plans, and drawings to become familiar with project prior to inspection, ensuring structural or architectural changes have been stamped as approved by appropriate authority and recognizing the need for and requiring plan checks for electrical, plumbing, and mechanical code requirements.
- Perform and document inspections on the project to determine all aspects such as foundations, building, electrical, plumbing, and mechanical systems conform to the applicable building codes and zoning ordinances, including known local, city, state, and federal requirements.
- Review plans for building construction, plumbing, electrical, and mechanical details prior to making inspection.
- Bring to the attention of the Planning and Development Services Department for approval of certain changes in building, plumbing, mechanical, electrical, and related work consistent with code and ordinance requirements.
- Participate in reviews with fire, health, and other government agency inspectors, as well as owners.
- Maintain a record of non-complying items and follow up to resolution of such items.

Internal Measures to Ensure Timely Project Completion

BV has a robust team dedicated to providing the City of Tucson with exemplary On-Call Plan Review Services. The firm's team of expert professionals and technical resources allow it to provide complete building and development department administration for jurisdictions both large and small. The firm aims to partner with existing jurisdiction staff in a way which best complements their efforts and talents. In some instances, providing a plan review engineer "behind the counter" for two days a week is enough, while other jurisdictions may need a complete building and development department staff on-site for several years. BV has the capacity to seamlessly adjust its personnel and resources to facilitate both ends of the spectrum and everything in-between.

Partnering with BV provides the City immediate resources. As the demand on the agency increases, the firm supplements the additional workload by augmenting its resources. Because of the firm's familiarity with the policies and procedures necessary for maintaining building and development services department, it has the ability to immediately begin assisting the jurisdiction with its building and community development department administration needs. One of BV's key assets

is the depth of experience its staff possesses. Professional personnel with years of industry experience coupled with a wide-ranging collection of business resources allows BV to uniquely customize and focus on its client jurisdiction's specific needs and requirements. BV has worked directly with jurisdictions in a variety of capacities and is familiar and comfortable working in the fast-changing pace of a growing city with evolving departments.

BV is adept at selecting and managing personnel from administrative to key management positions, using creative and leading-edge approaches to reaching successful solutions to tough problems. Because the firm's back office deals with the public, they always display good interpersonal and listening skills, which are needed for assessing and understanding customers' needs. BV's management team is dedicated to serving the City of Tucson and providing the resources necessary to ensure successful On-Call Plan Review Services and other related services. The firm's management team will directly oversee the review of submittal documents, bulletins, and change orders to assess compliance with the regulations contained in the various applicable codes, and recommend action with respect to the permit.

Servicing High Workloads

BV is committed to the provision of services of the highest quality. This means the firm has the capacity to seamlessly augment its staffing and resources, if needed, to ensure a project is appropriately supported and effectively fulfilled. BV has staff throughout Arizona, making it possible for it to have a highly qualified staff available expeditiously even for the most remote project. It is BV's goal to exceed client expectations by being present, punctual, and professional in all interactions with the client's staff as well as with any and all contractors and clients involved in a project.

BV proposes a highly qualified, multi-faceted core team of professionals dedicated to assisting the City of Tucson. The firm's partnership with the City will be managed out of its office in Scottsdale and augmented by staff located throughout the state as needed. This will facilitate quick and efficient responses to all service needs. BV takes pride in its deep pool of highly qualified building and development safety experts.

BV's offices are strategically located to minimize travel time between projects. The firm's goal is to ensure the City's projects will be efficiently managed in the most costeffective manner possible. BV has assigned key personnel which are readily available to work on City projects.

Organizational Chart

BV has assembled a team of experts who are equipped to provide exemplary deliverables associated with the provision of On-Call Plan Review and other related services to the City of Tucson. Each individual brings a wealth of knowledge unmatched by any other company and has been specifically chosen for their experience in performing the required scope of work detailed in the request as well as their extensive list of certifications and licenses. The organizational chart below depicts lines of communication and the specific aspects of the project to which these designated individuals will be involved. Core team members have been highlighted in red and resumes for these individuals have been included on pages 4 - 56 of this submittal (resumes for support personnel can be made available upon request). Additionally, copies of the applicable professional licenses for the aforementioned core team have also been included in this submittal. Furthermore, the following page provides the requested chart which depicts the estimated availability of the project manager and core project staff and which offices these personnel are based out of.



Name and Job Title	Estimated Availability	Office	Firm
	<u> </u>		



BUREA



CITY OF
PHOENIX Building Plan
Review, Civil
Plan Review,
and Inspection
Services



CASESTUDY

BUILDING PLAN REVIEW, CIVIL PLAN REVIEW, AND INSPECTION SERVICES

LOCATION

City of Phoenix, AZ

DATES OF SERVICE

2012 - Present

PROJECT SUMMARY

BV is currently providing On-Call Planning and Development Department Residential, Commercial, and Fire Building Plan Review Services; On-Call Planning and Development Department Civil Plan Review; and On-Call Planning and Development Department Residential and Commercial Building Field Inspection Services to the City of Phoenix. Plan reviews are performed for new construction, alteration, and repairs for compliance with the Phoenix Building Construction Code which includes the Residential Building, Plumbing, Mechanical, Fire, Existing Building, Energy Conservation, Fuel Gas, and Electrical Codes. Civil plan reviews are performed for grading and drainage, storm water management, drainage facilitates, concrete, and street paving for compliance with adopted codes, ordinances, policies, and standards.



BUREAU VERITAS CLIENT

City of Phoenix

CONTACT:

Tom Wandrie, P.E., C.B.O., Deputy Director/Building Official 602.534.5059 | 602.534.3274 tom.wandrie@phoenix.gov



PROJECT NAME
CITY OF
FLAGSTAFF Plan Review
and Inspection
Services



CASESTUDY

PLAN REVIEW AND INSPECTION SERVICES

LOCATION

City of Flagstaff, AZ

DATES OF SERVICE

2018 - Present

PROJECT SUMMARY

BV is currently providing on-call building plan review and building inspection services for the City of Flagstaff, AZ. The firm provides high quality reviews for both residential and commercial plans, reports, and specifications for compliance with the most recently enacted rules and regulations as adopted by the Federal, State, and local legislative bodies, including the City of Flagstaff adopted codes and amendments. The standard turnaround time for assigned plan reviews is 5-10 working days for residential projects and 7-14 days for non-residential projects. Plan review comments are specific, detailed, complete, and reference plan sheet numbers and code sections where applicable. BV works directly by telephone and email with the project's applicant, engineer/ architect, or City staff when reviewing submitted plans or subsequent corrections. Reviews are performed by firm staff who hold the appropriate International Code Council certifications for the specific type of project. Select projects BV has worked on in collaboration with the City include: Mission Linen Supply, The Joint Chiropractor, Flagstaff Mall, Flag Town Lofts (pictured), Circle K Stores, and Circle K Fuel.



BUREAU VERITAS CLIENT City of Flagstaff

CONTACT:

Amy Palmer, Building Official 928.213.2604 apalmer@flagstaffaz.gov



CITY OF GOODYEAR -Plan Review and Inspection Services



CASESTUDY

PLAN REVIEW AND INSPECTION SERVICES

LOCATION

City of Goodyear, AZ

DATES OF SERVICE

2019 - Present

PROJECT SUMMARY

BV delivers comprehensive and accurate plan reviews including detailed fire code issues of submitted projects with the approximate timeframe of 8-10 business days. Review of documents includes comment letters citing code deficiencies and whether it is the first, second, or third review, required special inspections and/or deferred submittals. The firm provides City plan review staff with assistance in conducting multi-discipline plan reviews in house or off site as appropriate and also meets with City staff and other interested parties to conduct at least one preliminary assessment of projects proposed to be submitted to the City for permit, as needed. Furthermore, BV provides the City inspection staff with assistance in conducting multidiscipline inspections. Finally, BV delivers expedited plan reviews of projects. These expedited reviews are required to be completed within 5 working days.



BUREAU VERITAS CLIENT

City of Goodyear

CONTACT:

Randal Westacott, Building Official 623.980.0682 randal.westacott@goodyearaz.gov



COLORADO
RIVER INDIAN
TRIBES Plan Review
and Building
Inspection
Services



CASESTUDY

PLAN REVIEW AND BUILDING INSPECTION SERVICES

LOCATION

Colorado River Indian Reservation (Arizona/California)

DATES OF SERVICE

2017 - Present

PROJECT SUMMARY

The Colorado River Indian Tribes (CRIT) include four distinct Tribes - the Mohave, Chemehuevi, Hopi and Navajo. There are currently about 4,277 active Tribal members. The CRIT Reservation was created in 1865 by the Federal Government for "Indians of the Colorado River and its tributaries," originally for the Mohave and Chemehuevi, who had inhabited the area for centuries. People of the Hopi and Navajo Tribes were relocated to the reservation in later years. The reservation stretches along the Colorado River on both the Arizona and California side. It includes almost 300,000 acres of land, with the river serving as the focal point and lifeblood of the area.

BV has had the honor of serving the CRIT through the provision of plan review and building inspection services since 2017. The firm conducts initial reviews of the 100% plans which result in a returned set to the client with any redlines and notes indicating areas which require changes or additional information from the client's architectural and engineering team for the project. BV's inspectors respond to construction inspection requests as outlined by the adopted codes and as required by the client. The firm has been able to partner with the CRIT on multiple projects including the construction of a new fire safety substation and a utility building.



BUREAU VERITAS CLIENT

Colorado River Indian Tribes

CONTACT:

Krystal Laffoon 928.669.1346 Krystal.Laffoon@crit-nsn.gov



STATE OF
ARIZONA 3rd Party
Plan Review
and Inspection
Services



CASESTUDY

3RD PARTY PLAN REVIEW AND INSPECTION SERVICES

LOCATION

State of Arizona

DATES OF SERVICE

2016 - Present

PROJECT SUMMARY

BV has delivered 3rd Party Plan Review of Construction Documents and Inspection Services to the State of Arizona since 2016. The firm provides building, mechanical, plumbing, electrical, and structural plan review services for Arizona Department of Administration projects. Plans are reviewed within 10 working days.

Two prominent projects the firm has worked on for the state include:

- Three Points Shooting Range Building: BV provided code compliance review for the Three Points Shooting Range Building new office and classroom building. The building was a new, single story, Type IIB, metal building of approximately 2,434 occupiable square feet under roof. The project owner was the Arizona Game and Fish Department.
- Six Car Washes for the Arizona Department of Transportation (ADOT): BV provided 3rd party review of construction documents of six ADOT vehicle wash systems.



BUREAU VERITAS CLIENT

State of Arizona

CONTACT:

John Hauptman, General Manager 480.689.1224 john.hauptman@azdoa.gov



ARIZONA STATE
UNIVERSITY Building and
Fire Plan Review
and Inspection
Services



CASESTUDY

BUILDING AND FIRE PLAN REVIEW AND INSPECTION SERVICES

LOCATION

Phoenix Metropolitan Area

DATES OF SERVICE

2014 - Present

PROJECT SUMMARY

BV was selected by Arizona State University (ASU) through the institution's annual request for qualifications for facility related professional services to provide building and fire plan review and inspection services and has done so for multiple projects since 2014. The firm provides high quality customer service to ASU and works closely with the University's staff as well as designers, contractors, and project managers. BV's staff is available to respond to the University's inquiries on a daily basis and attends meetings upon the University's request. One prominent venture the firm was chosen to provide inspection services for was the Barrett College Domestic Water replacement project, which included various buildings and was valued at \$12 million. Services were provided between 7:00am - 7:00pm and were scheduled with 24 hours advance notice. Due to the expedited project schedule the firm provided and budgeted for 2 on-site inspectors.



BUREAU VERITAS CLIENT

Arizona State University

CONTACT

Kenneth Lufkin, Assistant Director, Capital Programs Management 480.727.4501 Kenneth.Lufkin@asu.edu

BUREAU VERITAS TECHNICAL ASSESSMENTS LLC



Bureau Veritas Technical Assessments LLC (BVTA) is a professional service consulting firm providing comprehensive architectural, engineering, energy, and environmental solutions. The firm's team includes over 800 building professionals nationwide (with over 60 in the state of Arizona), including Registered Architects, Professional Engineers, Certified Energy Managers, Environmental Professionals, Building Systems Consultants, and Code Compliance Experts.



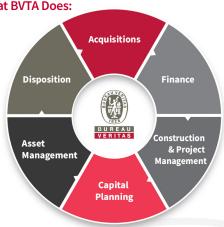
Annually, BVTA conducts thousands of assessments for Government, Residential, Commercial, Industrial, and Educational clients. Having successfully completed billions of square feet of building assessments, BVTA has developed a proven and efficient methodology for the performance of field assessments and data collection

BVTA's recommendations are based on knowledge of property conditions, life-cycle analysis, regulations, and client objectives. The firm's core of architectural, engineering, construction, environmental, and seismic expertise forms the foundation on which the company teams with clients to create and implement facility management solutions.

BVTA's asset management services include:

- Facility Condition Assessments
- Capital Planning Reports
- ADA Accessibility Compliance
- Equipment and Asset Inventory
- Barcoding, QR Coding, and Tagging
- **CMMS** Consulting
- Preventive Maintenance Plans
- Space Analysis Studies
- Energy Audits and Modeling
- Commissioning (Cx and Rx)
- **Construction Monitoring**
- Project Management
- Plan and Document Review

What BVTA Does:



BVTA delivers services to a myriad of clients all across the United States. A small sampling of the firm's clientele include:

Transportation

City of Seattle DOT Denver Regional Transportation District Orange County Transportation Authority Salem Area Mass Transit District Illinois Department of Transportation Reno-Tahoe Airport Authority (NV) Miami International Airport

Education

District of Columbia Schools (DC) University of New Mexico Texas A&M University Chicago Public Schools (IL) Ohio University University of Nevada - Reno Page Unified School District (AZ)

Municipal

City of Tucson (AZ) City of Phoenix (AZ) Salt River Pima-Maricopa Indian Community (AZ) City of Aspen (CO) City of Beaverton (OR) State of Utah State of California

BUREAU VERITAS TRANSPORTATION AND INFRASTRUCTURE DIVISION



For over 125 years (including as RW Hunt), Bureau Veritas has provided structural steel, pre-stressed concrete, construction materials, and infrastructure inspection and testing services to State Departments of Transportation (DOT) and the transportation industry. Bureau Veritas operates a dedicated Transportation and Infrastructure Division (T&I) to better serve the Transportation Industry within the U.S. T&I develops solutions to assist clients in managing and mitigating risk on large infrastructure projects, resulting in enhanced project performance through improved overall quality, reduction in project delays, and minimization of rework.



T&l's previous inspection projects for Transportation clients range from pedestrian bridges to fracture-critical cable-stayed bridges. Fabrication for these projects has taken place at numerous fabrication facilities located throughout the U.S. and other countries. The division typically averages over 4,750 Structural Steel and Precast / Pre-stressed Concrete Shop Fabrication Inspection man-hours per week through active contracts. T&l is currently under contract with 32 State DOT's and major Public Transportation Agencies around the U.S. performing technical and professional inspections during the fabrication of Structural Steel, Structural Steel Coatings, Nondestructive Testing (NDT), Precast Concrete and Prestressed Concrete. T&l's established procedures enable the simultaneous administration of multiple contracts while providing required coverage to execute multiple assignments regardless of project length. This division's services typically include:

Non-Destructive Testing involving evaluation of weldments using Ultrasonic, Magnetic Particle, Liquid Penetrant, Eddy Current Surveys, Phased Array Ultrasonic Testing (PAUT), and Radiographic Film Interpretation methods. Also, the division performs reviews of written practices and procedures submitted by fabricators, inspection firms, and others for the qualification and certification of non-destructive testing personnel.

Visual/Welding Shop Inspection involving materials and manufacturing processes used in the fabrication of bridge girders, structural steel, bearings, sign structures, barriers, railings, joint systems, steel grid decking, steel caissons, castings, machined components, and forgings.

Concrete Inspection involving fabrication inspection and witnessing of precast / pre-stressed concrete during the production of members such as pre-stressed haunch girders, concrete "I" girders, bulb girders, segmental box girders, box beams, bridge decking, and precast components such as sound walls, drainage items, and pilings.

Paint/Coatings Inspection involving performing a visual inspection of structural steel coating systems for compliance to the project specifications and manufacturer recommendations. It also involves verification and recording of Dry Film Thickness (DFT) of coatings and inspection of coatings requiring application of paint systems, galvanizing, and metalizing.

Field Inspection involving visual, weld, and non-destructive inspection services during the erection or repair of bridge structures. This includes the ultrasonic evaluation of bridge pins.

BV serves many markets, with the Transportation Industry being of paramount importance, particularly bridge construction and renovation. T&l's expertise in providing inspection services for this industry is unmatched. The division's extensive list of clients includes the Arizona Department of Transportation, Texas Department of Transportation, Nevada Department of Transportation, Virginia Department of Transportation, Michigan Department of Transportation, Kentucky Transportation Cabinet, New York State Department of Transportation, and Port Authority of New York and New Jersey, just to name a few.

BUREAU VERITAS SPECIAL INSPECTION AGENCY



Bureau Veritas' QA/QC, Resident Engineering, and Special Inspection Agency sits at the center of some of the largest building and infrastructure construction projects in the world. The division's team of highly trained Special Inspectors, Managers, and Field Staff have extensive experience in navigating the complicated rules, regulations, and requirements of the International Building Code, local guidelines, as well as city/state agencies and local Department of Buildings in municipalities and cities across the United States.



Efficiency is Bureau Veritas' mantra; with the firm's global reach as a company, it has the unique ability to reduce costs by providing local inspectors anywhere in the world. The firm possesses a proven track record and ability to facilitate issuance of the Certificate of Occupancy (CO) within a timely and cost effective manner. Bureau Veritas holds a full IAS accreditation to perform all inspections required in Chapter 17 of the International Building Code (IBC), as well as inspectors which hold certifications through AABC, ACI, AWS, ICC, NEBB, NICET, PCI, and state certified Professional Engineers and Registered Architects. The firm's expertise is preeminent in all facets of construction, which include, but are not limited to:

- Soils and Geotechnical
- Deep Foundation Elements (Piles/Caissons)
- Structural Steel
- Wood Construction
- Concrete Construction
- Masonry Construction
- Mechanical Systems
- Electrical Systems
- Fire Protection and Detection Systems
- Curtain Wall and Veneers
- Seismic and Wind Resistance
- Structural Stability
- Energy Conservation
- ASTM and AASHTO Testing

The firm's Concrete Testing Laboratory maintains AASHTO and CCRL accreditations for concrete, soils, and masonry. Communication is a key element in maintaining continuity throughout the construction process from beginning to end, and through communication and a talented management team with great leaders in the field, Bureau Veritas has the ability to facilitate completion of the project and make it successful for all stakeholders involved.

Due to the firm's reach it is able to provide services all across the United States for several client and project types, as BV employs an inspection team which is local to the project and is well versed in local codes, rules, and regulations. To supplement and provide value to clients across the board, Bureau Veritas has a robust team of Local Minority and Women Owned Business Enterprises partners which the firm is able to tap into based on the goals set forth by the project team. Implementation of these partners will cover any requirement which a project might have as well as insure a subject matter expert is always available.

Bureau Veritas Special Inspection Agency has had the opportunity to deliver services for a number of high profile new infrastructure, building construction, and major renovation projects including **The World Trade Center** (New York, NY), **Newark Liberty International Airport** (Newark, NJ), **LaGuardia International Airport** (Queens, NY), **Allegiant Stadium** (Las Vegas, NV), **O'Hare International Airport T-5** (Chicago, IL), and **Citizens Bank Park** (Philadelphia, PA).

ONECIS/BUREAU VERITAS PRESSURE VESSEL INSPECTIONS



OneCIS Insurance Company (OneCIS), A Bureau Veritas Company, provides a total solution to all your inspection and quality control needs. Whether you require prompt turnaround with an inspection, or a quick answer to a technical question, OneCIS delivers.

A market leader in the inspection field, OneCIS is the right choice for businesses which manufacture, repair or alter boilers and pressure vessels. In addition to the firm's core business of ASME inspections, OneCIS supports international code work, European Pressure Equipment Directive (PED) CE Marking, DOT and source inspection activities around the world.



With expert knowledge of code requirements, inspection techniques and quality control systems, OneCIS inspectors are the most skilled in the business. All of the firm's inspectors are commissioned by the National Board of Pressure Vessel Inspectors as Authorized Inspectors or Authorized Nuclear Inspectors. OneCIS staff also includes Certified Welding Inspectors (CWI) and American Petroleum Institute (API) inspectors.

OneCIS participates on committees of the American Society of Mechanical Engineers, the National Board Inspection Code, and the Pressure Vessel Manufacturers Association. The firm shares its expertise with its clients in face-to-face discussions and through educational programs, including seminars and in-house training. OneCIS believes in providing its clients with the most competent, cost efficient and responsive service. The firm considers its clients first in any action taken and supports them with an entire organization dedicated to their success.

Infrared Inspections

Considering today's fast paced business climate, it's imperative that you know the condition of your facilities electrical equipment. An untimely failure of this equipment can result in a significant business interruption or property damage loss. One of the best tools you can use to help ensure the safe and reliable operation of your facilities electrical system is infrared (IR) thermography.

An infrared thermography survey of your facilities electrical equipment is recommended by most electrical contractors on an annual basis and may even be recommended or required by your insurance carrier or local jurisdiction.

For both our highly protected risk (HPR) and non-HPR clients, Bureau Veritas services are an integral piece of the overall corporate risk solution and/or predictive/preventive maintenance programs. This service is designed to ensure the safe and reliable operation of electrical equipment and manage cost, business interruption, and any potential catastrophes.

Our technical and regulatory expertise helps organizations create safer environments in their operations. Bureau Veritas technicians are highly skilled and our expert knowledge of code requirements can help keep you compliant with your insurance carrier or with your local jurisdiction.

All of our technicians are ASNT SNT-TC-1A certified thermographers, which are strategically located throughout the United States in order to give you the best and most efficient service possible. We also possess the ability to provide service outside of the continental United States.

BUREAU VERITAS NATIONAL ELEVATOR INSPECTION SERVICES



Bureau Veritas National Elevator Inspection Services (BVNEIS) offers consulting services encompassing all phases of vertical transportation systems. The division's diversified experience and skilled, professional personnel are welcome members of the architectural design team because they are current with the latest technology and code requirements. NEIS was founded in 1967 and became part of the Bureau Veritas team in 2006. The division is the nation's largest and most qualified conveyance inspection services agency.



BVNEIS provides safety inspections and test witnessing for all forms of vertical transportation according to ASME codes as well as city, state, and country regulations. The division's service operations cover all 50 states as well as Puerto Rico and Guam and is comprised of over 130 QEI Inspectors and Consultants and 155 employees serving more than 17,000 clients.

BVNEIS understands the way people interact with buildings, and how all of a building's systems come together to enhance its overall use and effectiveness. This insight is used to consult on all facets of design, maintenance, and sustainability of vertical transportation. The division assesses, advises and recommends strategies for designing and maintaining elevator and escalator systems (vertical and horizontal transportation), throughout new and existing facilities.

BVNEIS provides services for a variety of vertical conveyances including elevators, escalators, moving walks, and other vertical transportation. The services this division provides are as follows:

Design	Modernization	Maintenance	Acquisition
Traffic Analysis	Equipment Survey	Contract Review/Preparation	Asset Review
Construction Documents	Code Compliance Review	Equipment Assessment	Capital Planning
Bid Assistance/Tendering	Specifications	Performance Reporting	Acquisition Report
Construction Services	Bid Assistance/Tendering	Bid Assistance/Tendering	
	Construction Services		

BVNEIS's extensive list of clients include such agencies as the **New York City Department of Education**, **United States Postal Service**, **University of California at Berkeley**, and **Loudoun County (Virginia)**, among many more.



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