



STATEMENT OF QUALIFICATIONS PREPARED FOR

REGION 4 EDUCATION SERVICE CENTER

FACILITIES HEALTH CONSULTING, QUALITY ASSURANCE, MANAGEMENT, AND
ADDITIONAL PRODUCTS AND SERVICES



OMNIA[®]
P A R T N E R S

RESPONSE SUBMITTED BY

INTERTEK

November 12, 2020

2:00 PM Central Time



November 12, 2020

Ms. Crystal Wallace
Business Operations Specialist
Region 4 Education Service Center (ESC)
7145 West Tidwell Road
Houston, TX 77092

RE: Request for Qualifications for Facilities Health Consulting, Quality Assurance, Management, and Additional Products and Services—Solicitation No.: 21-03

Dear Ms. Wallace,

Intertek is pleased to present our Statement of Qualifications for Facilities Health Consulting, Quality Assurance, Management, and Additional Products and Services (Solicitation No.:21-03). Intertek is a brand name representing the Intertek Group plc legal entities, including but not limited to **Professional Service Industries, Inc. (“Intertek-PSI”)** and **Architectural Testing Inc. (“Intertek-ATI”)**. Throughout this statement of qualifications, “Intertek” refers to any and all of these entities. Our qualifications package is based on the RFQ and **we acknowledge receipt of addendum No. 1**. We have a strong and successful track record of providing professional services for schools and public sector projects in Texas and nationally, with a focus on quality assurance for healthy, sustainable, high-performance buildings. We trust you will find our submittal to be informative and appreciate the opportunity to present it to the Region 4 ESC.

Our team offers benefits as follows:

- **Industry Leader:** We are the first company offering comprehensive consulting, analysis, and verification for virus transmission risk reduction.
- **Stability:** Intertek’s history and record of excellence goes back more than 130 years.
- **Multi-disciplinary:** Our staff holds a wide array of professional and technical credentials, and we are highly qualified to deliver the full range of services required under this solicitation, and many complimentary services.
- **National Reach:** We serve all regions of the U.S. from over 100 offices in 36 states with over 2,600 employees, able to meet client and project needs in any location.
- **Local Presence:** Intertek has over 450 employees in seventeen offices within the State of Texas, including five offices located within the Houston area (Houston, La Porte, Spring, Clute and Beaumont).
- **Principal Lines of Business:** Intertek is legally licensed to conduct business in the State of Texas for environmental consulting and testing and inspection. We can also provide industrial hygiene, facilities and building enclosure consulting, and assurance testing services.
- **Small Business Commitment:** If the contracting agency desires disadvantaged business enterprise participation, Intertek will take affirmative steps to assure specific duties and percentage of work are let to certified subconsultants.

Should you require more details regarding any of our qualifications and services, please feel free to contact the undersigned with any questions. We look forward to working with Region 4 ESC in serving schools within the region.

Respectfully submitted,

Alan Scott, FAIA, LEED Fellow,
LEED AP BD+C, O+M, CEM, WELL AP
Senior Consultant, Building Science Solutions
Building & Construction
Direct 971-230-8029
Cell 503-807-5678
alan.scott@intertek.com

Shashank Valluru, P.E.
Regional Vice President
Building & Construction
Direct 346-237-9439
Cell 817-368-7450



Receipt of Addendum No. 1 Acknowledgement

RECEIPT OF ADDENDUM NO. 1 ACKNOWLEDGEMENT

Offeror shall acknowledge this addendum by signing below and include in their proposal response.

Company Name Intertek

Contact Person Shashank Valluru, PE

Signature 

Date November 12, 2020

Crystal Wallace
Region 4 Education Service Center
Business Operations Specialist



DRAFT CONTRACT AND OFFER AND CONTRACT SIGNATURE FORM

Appendix A

OFFER AND CONTRACT SIGNATURE FORM

The undersigned hereby offers and, if awarded, agrees to furnish goods and/or services in strict compliance with the terms, specifications and conditions at the prices proposed within response unless noted in writing.

Company Name Intertek

Address 3730 Dacoma Street

City/State/Zip Houston, Texas 77092

Telephone No. 713-224-2047

Email Address shashank.valluru@intertek.com

Printed Name Shashank Valluru, PE

Title Regional Vice President

Authorized signature 

Accepted by Region 4 ESC:

Contract No. _____

Initial Contract Term _____ to _____

Region 4 ESC Authorized Board Member

Date

Print Name

Region 4 ESC Authorized Board Member

Date

Print Name



DRAFT CONTRACT AND OFFER AND CONTRACT SIGNATURE FORM

A. Terms and Conditions Acceptance Form (Appendix B)

Please see the following page (pages 6) for our Proposed Exceptions and Modifications.

Appendix B

TERMS & CONDITIONS ACCEPTANCE FORM

Signature on the Offer and Contract Signature form certifies complete acceptance of the terms and conditions in this solicitation and draft Contract except as noted below with proposed substitute language (additional pages may be attached, if necessary). The provisions of the RFQ cannot be modified without the express written approval of Region 4 ESC. If a proposal is returned with modifications to the draft Contract provisions that are not expressly approved in writing by Region 4 ESC, the Contract provisions contained in the RFQ shall prevail.

Check one of the following responses:

- Offeror takes no exceptions to the terms and conditions of the RFQ and draft Contract.

(Note: If none are listed below, it is understood that no exceptions/deviations are taken.)

- Offeror takes the following exceptions to the RFQ and draft Contract. All exceptions must be clearly explained, reference the corresponding term to which Offeror is taking exception and clearly state any proposed modified language, proposed additional terms to the RFQ and draft Contract must be included:

(Note: Unacceptable exceptions may remove Offeror's proposal from consideration for award. Region 4 ESC shall be the sole judge on the acceptance of exceptions and modifications and the decision shall be final.

If an offer is made with modifications to the contract provisions that are not expressly approved in writing, the contract provisions contained in the RFQ shall prevail.)

Section/Page	Term, Condition, or Specification	Exception/Proposed Modification	Accepted (For Region 4 ESC's use)



DRAFT CONTRACT AND OFFER AND CONTRACT SIGNATURE FORM

A. Terms and Conditions Acceptance Form (Appendix B)

Exceptions/Proposed Modifications

Region 4 ESC Draft Contract			
Section/Page of Contract	Term, Condition, or Specification	Exception/Proposed Modification	Accepted (For Region 4 ESC's use)
Section 22/Page 5	Warranty Conditions	We do not provide 1-year warranty's	Accepted
Section 30/Page 6	Indemnity	To the extent of its negligence, for third party claims, Contractor shall protect, indemnify, and hold harmless both Region 4 ESC and it's administrators, or resulting from the actions of the Contractor, Contractor employees or subcontractors in the preparation of the solicitation and the later execution of the Contract. Any litigation involving either Region 4 ESC, its administrators and employees and agents will be in Harris County, Texas.	Accepted
Section 31/Page 6	Marketing	Either Contractor or ESC may withdraw their approval to use their name and logo at any time.	Accepted



i. Full Description of All Services and Products

Facility Health Consulting, Quality Assurance & Management Overview

Comprehensive facility health management includes physical upgrades and ongoing management to support building occupant wellness, with special attention to administrative and engineering controls to reduce the array of pathogen transmission risks in buildings, including training, disinfection practices, modifications to building spaces, systems and operational practices. The goal is to provide building owners and managers, and their constituents and stakeholders, with assurance that their physical assets are as safe as possible for occupancy during the pandemic, and supportive of health and wellness long-term. Intertek's team of experts; engineers, architects, building scientists, and industrial hygienists will work with you to assess the performance of your facilities. Our facility health management scope is customized for each facility, but typically includes the following elements:



Facility Health Assessment

Intertek will perform initial assessments to gather background information and identify the areas of greatest health risk and opportunities to mitigate them. Our team will then visit each facility and conduct visual inspections of spaces and elements. Following these site visits, we will complete assessments and analysis, focused on opportunities to improve environmental quality and reduce pathogen infection risks. This would include detailed analysis and recommendations to optimize effective airborne contaminant removal strategies, and review of surface disinfection practices. These assessments will provide a comparison against Protek Facility Health Management program requirements, identification of deficiencies and opportunities for improvement, and remediation recommendations.



Disinfection Process Management

Integrated with facility health assessments or as a stand-alone service, Intertek can support the development and verification of a comprehensive surface cleaning and disinfection practices by your custodial team. This includes development and review of policies and protocols and verification testing.



People Assurance Training

Part of a comprehensive pathogen risk reduction strategy includes staff training to ensure that everyone has a consistent understanding of how infections are spread and what are the best practices that individuals should use to keep themselves and others safe and healthy. We can provide a comprehensive learning management system to address specific education needs.



Remediation

If deficiencies are identified, Intertek will assist you to implement recommended remediations. We will develop the scope of work for the remediation, assist in selecting vendors to execute them, and provide review and guidance during the remediation. At your request, Intertek will take on the role of program manager and provide turnkey remediation services.



Certification

If facilities meet all requirements, we offer the option of a Protek Certification to support communication of health and safety assurance to stakeholders. If you opt for Protek certification, Intertek's technical team will transfer the compliance documentation to our independent, global Building & Construction Certification team. They will review all requirements of the building assessment protocol and publish your certification listing. This listing will include all of your test reports and facility inspection report, as well as facility assessment report and other applicable performance characteristics. You can communicate your facility's certification with posted certificates, visible stickers and a digital certification mark on your website.

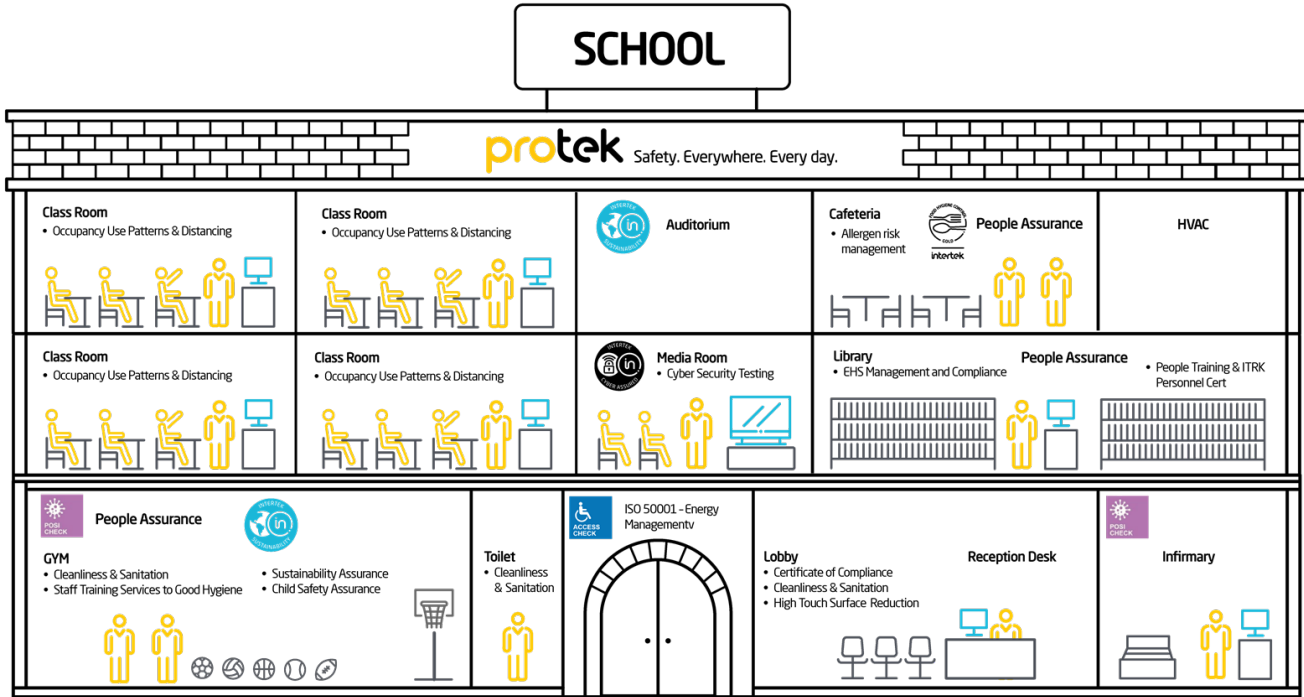


Compliance Report

Following the Facility Health Assessments, and Remediations (if required), Intertek will complete a site inspections and conduct testing to confirm compliance with all applicable program requirements. This will include visual inspection of required facility components, measurement and testing of key performance indicators, and compilation and review of policies, protocols, engineering calculations, product/system data and other required documentation. The inspection observations, testing data and other documentation will be compiled in a report and recorded on a program scorecard. An Intertek Principal Consultant will review the report and validate compliance.



i. Full Description of All Services and Products



KEY AREAS:

- Classroom
- Auditorium
- Cafeteria
- HVAC
- Media Room
- Library
- Gymnasium
- Restrooms/Locker Rooms
- Lobby
- Reception Desk
- Infirmary
- School Buses

KEY SERVICES:

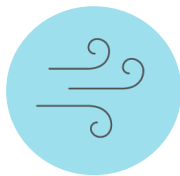
- Intertek provides a wide array of bundled or a la carte services for schools, serving existing facilities, renovations and new construction, including the following:
- Indoor Air & Water Quality Testing
 - HVAC/Ventilation Control & Filtration
 - Energy Efficiency Audits
 - ISO 50001 Energy Management
 - Industrial Hygiene Services
 - Occupancy Use Patterns & Distancing
 - High Touch Surface Reduction
 - Accessibility & ADA Compliance
 - People Assurance
 - Healthy Building Certification
 - Building Enclosure Consulting, Inspection and Testing



i. Full Description of All Services and Products

FACILITY HEALTH MANAGEMENT

Protek Facility Health Management is a comprehensive and practical health and safety solution for facility owners and managers, focused on reducing pathogen transmission risks to protect and assure occupants that they have taken recommended measures to occupy safely with appropriate health and environmental considerations. We perform a complete facility health assessment, identify and prioritize virus risk reduction strategies, guide implementation of preferred administrative and engineering controls, and provide compliance reporting and certification. Beyond masks, physical distancing and enhanced cleaning, you need a comprehensive and strategic approach to reduce both airborne and contact transmission risks and provide assurance to stakeholders.



AIRBORNE CONTAMINANT REMOVAL

Ensure occupant health, wellness and productivity with optimized, facility-specific indoor air quality strategies. Unbiased engineering guidance on the most practical and effective strategies and technologies to reduce pathogen risks and improve indoor air quality.

INDOOR AIR QUALITY TESTING

Confirm acceptable indoor air quality in support of occupant respiratory health through air quality testing.

BUILDING AIR FLUSH

To protect occupant respiratory health and reduce off-gassed pollutant concentrations in buildings that have been unoccupied for an extended period.



BUILDING DAMPNES AND ENCLOSURE CONDITION

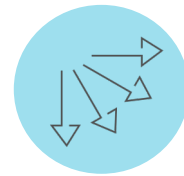
Protect indoor air quality in support of occupant respiratory health through assurance of building enclosure condition and other dampness prevention measures.

TEMPERATURE & HUMIDITY

Maintain suboptimal environmental conditions for virus viability and support occupant health and comfort through effective temperature and humidity control.

BUILDING WATER SYSTEM FLUSH AND TESTING

To ensure acceptable water quality and to protect occupant health in buildings that have been unoccupied for an extended period, flush the building water system to remove biofilms and dissolved metals that may have concentrated in pipes and fixtures.



CONTACT TRANSMISSION REDUCTION

Reduce potential contact transmission of virus with systematic approach to eliminating high-touch surfaces, establishing effective barriers and distancing measures and creating an infected person isolation plan.

CUSTODIAL EFFECTIVENESS PROTOCOL & VERIFICATION

Adopt and implement enhanced housekeeping protocol to increase surface cleanliness and support occupant health, then conduct testing to verify effective high-touch surface sanitization.



i. Full Description of All Services and Products

DISINFECTION PROCESS MANAGEMENT & VERIFICATION ASSESSMENT SERVICES

Intertek’s Protek Disinfection Process Management program was designed with the health and safety of employees, customers, guests and other stakeholders in mind. We provide building owners and managers with the expert guidance and testing to ensure custodial practices are effectively preventing the spread of infectious microorganisms (bacteria, viruses, etc.) today and in the future.

Our post-cleaning verification protocols have been developed based on available industry guidance. These protocols and associated consulting services support cleaning and disinfection within your buildings in order to help you occupy safely and with confidence. Our team of expert industrial hygienists can provide you with the confidence and assurance that your educational environment will be suitable for safe occupancy.

3 STEPS TO DISINFECTION SUCCESS



STEP 1
CLEANING PROCESS CONSULTING

- Review of cleaning policies, protocols and products
- Assessment of critical high-touch surfaces needing special custodial attention
- Recommendation of new/ revised cleaning and disinfection polices and protocols



STEP 2
CLEANING IMPLEMENTATION & VERIFICATION

- Confirmation of custodial staff training on new protocols
- Testing of a sampling of high-touch surfaces after cleaning to validate effective disinfection
- Feedback to custodial staff and determination of the required re-cleaning frequency



STEP 3
ONGOING CLEANING VERIFICATION

- Once effective cleaning procedures are in place, conduct random testing to ensure new practices and procedures are still effective
- Periodic updates to cleaning policies and protocols in response to changing circumstances and risks



i. Full Description of All Services and Products

PEOPLE ASSURANCE TRAINING

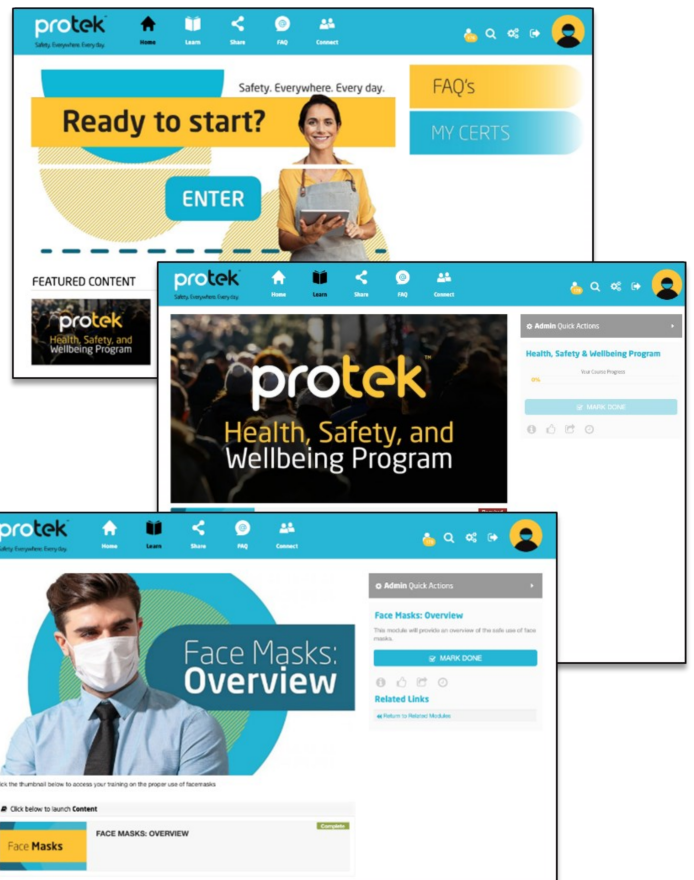
As the world settles into a “new normal,” school districts are looking for assurance that new standards of operation are safe and trustworthy. Intertek research shows that more than 70 percent of people don’t feel safe returning to their workplaces without authenticated health and safety practices in place. And over half (54 percent) of managers believe they’ll struggle to provide an acceptable health and safety standard for their teachers and staff when schools re-open. Protek People Assurance is here to help!

Protek People Assurance is an on-demand eLearning and certification program empowering school districts to deliver essential staff training on health and safety. Backed by Intertek’s Qualified Personnel (IQP) Program, Protek People Assurance brings peace of mind to school districts across the globe by independently qualifying personnel to ensure that they meet the highest standards of operational excellence.



Protek People Assurance is an on-demand eLearning and certification program empowering companies to deliver essential employee training on health and safety covering the following **10 learning modules**:

- COVID-19 Overview
- Face Masks
- Hand Washing
- Cleaning and Sanitation Tips
- Public Health Etiquette
- Personal Hygiene
- Glove Use
- Cleaning and Sanitation Theory
- Vehicle of Disease Transmission
- Public Health Screening





i. Full Description of All Services and Products

HEALTH & SAFETY ASSURANCE CERTIFICATION

Intertek Certification:

For more than 130 years, companies around the world have depended on Intertek to help ensure the quality and safety of their products, processes and systems.

Intertek is a global assurance, testing, inspection and certification (ATIC) company providing quality assurance and laboratory testing service for a wide variety of industries such as: building and construction, food, chemicals, cosmetics, pharmaceuticals, electronics, toys, fuels, and other consumer and industrial goods. Intertek’s “ETL” certification mark is a verification seal of the “Electrical Testing Lab” founded by Thomas Edison.

Our Certification Marks:

To support our customers’ commitment to comply with relevant codes, standards and industry association requirements, we offer comprehensive, cost-effective certification solutions including Intertek’s globally recognized ETL and Warnock Hersey Marks.

The Warnock Hersey Mark has long been one of the building product industry’s most recognizable certification marks and can be found on a variety of products including hearth, plumbing, fire doors, and windows. The ETL “ETL” certification mark is a verification seal of the “Electrical Testing Lab” founded by Thomas Edison and is North America’s most accepted and fastest growing certification marks for electrical and fire products.



Protek Certification:

Protek’s Facility Health Management program is based on the guidelines and recommendations issued by WHO, CDC, OSHA and ASHRAE. Additionally, our certification process is based on the requirements of the ISO 17065 standard. Protek Certification is backed by Intertek,



global quality assurance leader. Protek is designed to instill consumer confidence by certifying a commitment to the highest standards of operational excellence.

Levels of Certification:

Protek Facility Health Management certification provides building owners and managers an additional level of assurance that effective pathogen transmission risk reduction measures have been implemented in the facility, allowing them to clearly communicate to employees, customers and other stakeholders that the facility is safer for occupancy. Protek offers three level of certification:

Fundamental – Achieved if applicable best practices for pathogen transmission risk reduction have been implemented.

Enhanced – Earned if higher levels of airborne contaminant removal measures have been achieved, as well as implementation of addition mitigation measures.

Premium – Earned if the highest levels of airborne contaminant removal measures have been achieved, as well as implementation of addition mitigation measures, along with verification testing and on-going monitoring to provide an optimal level of health and wellness protection.



i. Full Description of All Services and Products

QUALITY ASSURANCE INDOOR AIR QUALITY

Indoor Air Quality (IAQ) is an emerging concern to building owners, operators, managers, and tenants. Poor indoor air quality or “Sick Building Syndrome” can result in decreased worker productivity, higher insurance costs, lawsuits, forced evacuation or downtime, and broken or strained lease agreements. IAQ problems may be caused by numerous factors, including:

- Asbestos
- Formaldehyde
- Inorganic gases
- Inefficient HVAC systems
- Microorganisms
- Radon
- Tobacco smoke
- Volatile organic chemicals such as cooking or heating fuels, propellants, pesticides, cleansers and solvents, paints, varnishes, glues, and many others

The primary goal at Intertek is to provide quality services that fulfill real needs at the lowest reasonable cost. In other words, we never sell our clients services they don't need. In keeping with this philosophy, we have adopted a phased approach to indoor air quality consulting that allows us to tailor the services exactly to our client's needs and desires. Every indoor air quality problem is unique and hundreds of variables may need to be considered to solve a specific problem.

The first step in assessing an indoor air quality problem is to identify the conditions that may be at the root of the problem. This is our Phase I Indoor Air Quality Audit. It can include:

- Interviews with selected employees, supervisors and managers
- Inspection of the entire interior work area and the exterior of buildings
- Evaluation of HVAC system
- Evaluation of population/activity density
- Air sampling for specific contaminants



Following the completion of the Phase I Indoor Air Quality Audit, a report detailing all findings and recommendations for additional study or corrective action will be delivered to you. In many cases, the Phase I Audit is sufficient to identify the source or sources of any problems; at other times—due to the complexity of the situation—further study will be necessary to determine the nature of the problem. Under those circumstances Intertek can deliver the needed industrial hygiene services. This would usually include a more extensive or intensive sampling for contaminants identified by the Phase I Audit and may include a more detailed investigation of the ventilation system. In any case, the Phase II assessment will thoroughly identify any problems which the Phase I Audit, by reason of its more limited scope, did not resolve.



ii. Full Description of All Additional Services and Products

PROPERTY CONDITION ASSESSMENTS

Property Condition Assessments

Owners have to be concerned with the possible liability issues associated with asbestos and hazardous chemicals, as well as with the high cost of repairing and/or replacing building components such as roofs, curtain walls, and pavements. Furthermore, the condition of the less visible, and sometimes neglected, mechanical, electrical, and plumbing systems of a facility can also have a significant impact on budgeting for capital improvements. Intertek has developed an effective property condition assessment process that, when used in association with environmental site assessment services, is very effective in providing a clear understanding of the total condition of the subject property.

Intertek recognizes that professionals skilled in a variety of disciplines are required to properly evaluate the current status of a property. We coordinate a team of professionals who address different building components so that, with a single contact, you can obtain a complete property condition assessment. The assessments address the following areas:

- Structural systems
- Pavements
- Roofing system
- Mechanical, electrical, and plumbing systems
- Exterior wall systems
- Life, safety, and building codes
- ADA compliance
- Sitework

The following is a typical scope of services which may be utilized for projects. The scope of services, encompassing a variety of services which we typically include in a property condition assessment, has been provided below as additional information for your evaluation.

- Review of available construction documents
- Visual observation of the buildings and grounds
- Photographic documentation of general conditions
- Report of our findings and conclusions
- Tabulated analysis of immediate needs costs
- Capital reserves analysis



Intertek will review documentation related to the maintenance, repair, and replacement of major property components or systems. A visual observation of the property will be performed in order to familiarize our team with the general condition of the building. In addition, available maintenance records will be reviewed to identify any onsite maintenance problems and the property maintenance problems encountered. We will also interview onsite maintenance personnel knowledgeable about the site.



ii. Full Description of All Additional Services and Products

SUSTAINABILITY & ENERGY SERVICES

The Intertek team includes deep expertise in energy and sustainability:

- Energy code compliance and building energy performance enhancement
- Sustainable design and healthy building consulting
- Sustainable and energy efficient building operations
- Third-party sustainable building certification

Intertek sustainability services include:

Sustainable Design Consulting & Certification

- Feasibility assessment of the application of third-party certification frameworks (LEED, WELL, Passive House, Living Building Challenge, etc.) to proposed projects
- Consulting and certification management to support the certification of projects using any of these frameworks
- Support for specific credits or requirements within various rating systems, including energy efficiency, building enclosure commissioning, sustainable materials selection, and environmental testing
- WELL Building Assessor services (on-site inspection and testing)

Sustainable Materials

- Comprehensive sustainable materials consulting and vetting to meet owner criteria and third-party certification requirements (LEED, LBC, WELL, Passive House, etc.)
- Embodied carbon analysis of enclosure materials to inform material selection and specification, including comparative analysis of embodied and operational carbon impacts of material options (insulation, etc.)
- Whole building life cycle assessment and/or whole building embodied carbon assessment, supporting design decisions and providing documentation aligned with third-party certification requirements (LEED, etc.)
- Enhanced envelope consulting services including material review for sustainability, aligning enclosure

design consulting with owner and architect established sustainable material criteria

Resilience

- Enhanced Property Condition Assessment (PCA) option, including on-site visual risk assessment checklist
- Property resilience assessment with risk identification and mitigation recommendations
- Enhanced envelope consulting services including detailed energy analysis, risk assessment and recommended design and specification solutions to increase the resilience of proposed projects

Enterprise Sustainability

- Facilities audits focused on energy performance, and carbon emissions, water use and waste reductions, as well as resilience and occupant health and wellness, along with recommendations on strategies to improve performance with these metrics
- Development of customized sustainability standards and guidelines for capital project design and construction
- Certification of existing facilities using ENERGY STAR, LEED EB:OM or other frameworks





ii. Full Description of All Additional Services and Products

INDUSTRIAL HYGIENE & INDOOR AIR QUALITY SERVICES

Industrial Hygiene & Indoor Air Quality Services

Since 1984, Intertek has performed hundreds of thousands of Industrial Hygiene (IH) and Indoor Air Quality (IAQ) projects covering billions square feet of building space. We are familiar with every aspect and component for the inspection and abatement of asbestos, lead-based paint, and mold. We also provide comprehensive industrial hygiene health and safety evaluations in commercial and industrial settings. We have worked with large-scale clients in both the private and public sectors to provide safe, healthy working and living environments.

Industrial Hygiene, Health and Safety

- Occupational exposure assessments
- Job task hazard evaluations
- Noise surveys
- Radon, metals, VOCs, silica, CrVI and more

Asbestos Management

- Facility surveys
- Operations and maintenance plans
- Asbestos abatement design specifications
- Asbestos abatement oversight
- Comprehensive asbestos management programs
- Analytical Laboratory
- AIHA & NVLAP accredited

Indoor Air Quality & Mold

- Facility surveys
- HVAC assessment
- Air quality/biological sampling
- Abatement/retrofit design and oversight
- Preventative maintenance plans
- LEED "Green Building" surveys and management plans
- Microbiology Laboratory
- AIHA accredited
- Mold assessment, remediation design & monitoring

Lead-Based Paint (LBP) Consulting

- LBP surveys and risk assessments
- Hazard identification
- Abatement design and specifications



- Abatement oversight
- Air monitoring
- Final clearance sampling
- Comprehensive LBP management programs



ii. Full Description of All Additional Services and Products

BUILDING SCIENCE SOLUTIONS

Building Science Solutions

As the world-wide leader of testing, inspection, and certification services for the built environment, Intertek's capabilities as a tester and certifier of building products, components, and assemblies provides us a unique perspective and gives our customers more immediate access to a knowledge base and in-house testing capabilities that are not available with our competitors. With the ability to perform acoustical, structural, thermal, blast resistance, durability, energy, and air/waterproofing performance all under our roof, we offer our customers a more comprehensive and streamlined solution.

Our breadth of capabilities—both in building sciences and upstream—combined with the industry's largest domestic and global footprint, gives us the advantage when tackling both the known and unknown of any project and helps streamline services saving our customers both time and money.

The diversity and expertise of our professional staff provides our customers with a distinct market advantage. With team members who have developed a number of specifications, test methods, and certification programs used throughout the construction industry, we are recognized leaders in the building envelope industry. Our staff of architects and engineers encompasses a wide variety of disciplines and licenses including AIA, NCARB, and LEED AP. Our team strives to ensure every project is completed with the highest level of professionalism and satisfaction.

Building Enclosure Consulting

Today, Intertek is an industry leading provider of building enclosure commissioning, consulting, inspection, testing, and design services for building enclosure projects. From the smallest component to the largest building project, Intertek wants to be your building enclosure quality assurance partner. We have over 1000 offices in over 100 countries, but more importantly, we are in your backyard with over 100 domestic offices.



Our vast expertise in regards to new construction projects incorporates extensive involvement in all phases of enclosure design and construction. In addition to new facilities, we have extensive experience in building enclosure investigation and forensics. Through this experience, we have gained an understanding of why buildings fail, how to prevent failures, and how to achieve high performance building enclosures.

Our staff includes licensed architects and professional engineers encompassing a wide variety of disciplines, certifications, and accreditations, including but not limited to LEED Accredited Professionals, Certified Commissioning Providers and Registered Roof professionals.



ii. Full Description of All Additional Services and Products

BUILDING SCIENCE SOLUTIONS

Pre-Design/Design

- Provide programming and OPR development assistance
- Assist with energy modeling
- Assist with conceptual/schematic design development
- Conduct design peer reviews
- Perform construction document development
- Create/review performance specifications
- Develop Functional Performance Test plans
- Perform hygrothermal performance analysis



Pre-Construction/Procurement

- Attend pre-bid meetings
- Bid assistance
- Respond to RFIs

Construction

- Review project submittals including shop drawings
- Observe and document mock-up construction
- Perform and witness mock-up testing
- Perform construction field observations
- Conduct fabricator plant visits
- Create and track observation logs
- Participate in dispute resolution
- Provide letters of acceptance
- Observe and/or perform field testing

Investigation and Forensic Services

Condition Assessments and Facade Inspections

Litigation Support / Expert Witness Building Enclosure Commissioning (BECx)

Building enclosure areas of expertise

- Assist with Energy Analysis
- Assist with Energy Modeling
- Waterproofing
- Roofing
- Fenestration
- Glazed Curtain Wall, Window Wall
- Storefront and other Systems
- Brick and Block Masonry
- Concrete
- Tile and Stone Cladding
- Stucco Systems
- Exterior Insulation and Finish Systems (EIFS)
- Durability and Serviceability Analysis
- Wood
- Vinyl
- Insulation
- Metal Panel Cladding Systems
- Glass and Glazing
- Terra Cotta
- Air and Water Resistive Barriers
- Vapor Barriers
- Acoustical Performance
- Fire Resistance
- Hygrothermal Analysis



iii. Describe Payment Methods Offered

Monthly invoices will be issued and are due Net 30 days upon receipt. We accept payment via checks, ACH and wire transfers.

iv. Describe Any Warranties for Services/Products Being Offered

Intertek warrants that all work, reports, and recommendations will follow the standard of care that a reasonable engineering firm would follow under similar circumstances.

v. Provide Any Additional Information Relevant to this Section

We have no additional information for this section.



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract

EXHIBIT D
PRINCIPAL PROCUREMENT AGENCY CERTIFICATE, EXAMPLE

PRINCIPAL PROCUREMENT AGENCY CERTIFICATE

In its capacity as a Principal Procurement Agency (as defined below) for National Intergovernmental Purchasing Alliance Company, a Delaware corporation d/b/a OMNIA Partners, Public Sector (“**OMNIA Partners**”), [NAME OF PPA] agrees to pursue Master Agreements for Products as specified in the attached Exhibits to this Principal Procurement Agency Certificate.

I hereby acknowledge, in my capacity as **Regional Vice President** of and on behalf of [NAME OF PPA] (“**Principal Procurement Agency**”), that I have read and hereby agree to the general terms and conditions set forth in the attached Master Intergovernmental Cooperative Purchasing Agreement regulating the use of the Master Agreements and purchase of Products that from time to time are made available by Principal Procurement Agencies to Participating Public Agencies nationwide through OMNIA Partners.

I understand that the purchase of one or more Products under the provisions of the Master Intergovernmental Cooperative Purchasing Agreement is at the sole and complete discretion of the Participating Public Agency.

Authorized Signature, [PRINCIPAL PROCUREMENT AGENCY]



Signature

Shashank Valluru, PE

Name

Regional Vice President

Title

November 12, 2020

Date



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract

Intertek Protek is the world’s first industry-agnostic, end-to-end health, safety and wellbeing assurance program for people, workplaces and public spaces, offering audits, training, inspection, verification and certification solutions.

End-to-end health, safety and wellbeing solutions

Never before has health, safety and wellbeing been so vital to every aspect of our lives. Whether at work, shopping, eating out or using public transport, employees and consumers are looking to brands for trust, assurance and peace of mind. Based on Intertek’s unique approach to total quality, Protek safeguards people, systems and processes, facilities, materials and surfaces, and products. Intertek Protek provides support across all sectors, from manufacturing to retail sites to public places; turnkey solutions covering all aspects from facility health assessment, program development, audit solutions for the prevention of the spread of infection, cleaning and disinfecting process oversight, post cleaning verification to compliance reporting and certification.

People Assurance

Protek provides end-to-end learning and certification solutions, from Covid-19 related training programs to specific modules on how to use face masks, gloves and other PPE. In addition, courses on hygiene, cleaning and prevention of the spread of infectious diseases help to assure the health, safety and wellbeing of employees and customers alike.

Operating Systems and Processes

These solutions provide confidence that operating procedures are functioning properly, helping to identify and mitigate intrinsic risk in operations, supply chains and business processes. These technology-driven solutions deliver supply chain risk transparency and visibility that can improve business and deliver more cost-effective



processes.

Facilities

Health & safety solutions that identify and minimize environmental health risks to employees and customers across manufacturing, hotels, schools, restaurants, transport hubs, retail, and more. From facility health assessments, program development, cleaning and disinfectant process oversight, post-cleaning verification to compliance reporting and certification.

Materials and Surfaces

These solutions provide the testing and inspection services needed to ensure materials and surfaces used are sanitized and safe for employees, customers, and the planet. From cleanliness and sanitation to waste management, Protek provides the assurance needed in today’s environment.

Products


Protek Product solutions deliver the assurance to clients that a product was made with quality, safety, and sustainability in mind. The solutions cover products through the entire lifecycle, starting from raw materials, components, to transportation and the finished product’s use, disposal, recovery and re-use.



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract

Intertek has a long history of serving public and private clients nationally, including school districts, municipal and state governments. Consulting, inspection and testing services for these projects include building enclosures, environmental consulting, industrial hygiene, asbestos and lead abatement, indoor environmental quality, and other energy, wellness and sustainability related services. Some of the projects our proposed team has worked on include:

- The University of Texas Engineering Education Research Center, Austin, TX
 - University of Texas Medical Branch Angleton Danbury Campus, Angleton, TX
 - Houston Independent School District, Houston, TX
 - Clear Creek Independent School District, Houston, TX
 - The University of Houston, Houston, TX
 - Conroe Independent School District, Montgomery County, TX
 - Humble Independent School District, Humble, TX
 - Fort Bend Independent School District, Sugar Land, TX
 - Wharton Independent School District, Wharton, TX
 - Lamar University, Beaumont, TX
 - Texas State University, San Marcos, TX
 - Texas A&M University, College Station, TX
 - Regional MD Anderson Cancer Center of The Woodlands, TX
 - Knight Road Apartments, Houston, TX
 - Southwest Research Center, San Antonio, TX
 - Vineyard Assisted Living Development, Pearland, TX
 - Warrenton-Hammond School District, Warrenton, OR
 - Orange County Public Schools, Multiple Sites, FL
 - Seminole County Public Schools, Multiple Sites, FL
 - Lake-Sumter Community College, Leesburg, FL
 - Washington Metropolitan Area Transit Authority (WMATA)
 - New York City Housing Authority (NYCHA)
 - Orlando City Soccer Stadium/City of Orlando, FL
 - San Francisco State University (SFSU), CA
 - Mt. Diablo Unified School District, Brentwood and San Francisco, CA
 - City of Fresno, Fresno Air Terminal, Fresno, CA
 - County of Alameda, CA
- 
- University of South Carolina, Center for Health and Well-Being, Columbia, SC*
 - Fayette County Public Schools, Frederick Douglass High School, Lexington, KY*
 - Reserve University, Cleveland, OH
 - DHL, Miami, FL
 - College of Marin, Kentfield, CA
 - Arizona State University, Phoenix, AZ
 - New York City School Construction Authority, New York City, NY*
 - Hotel College, University of Nevada Las Vegas, NV*
 - US Coast Guard Headquarters, Washington, DC*
 - Tinkham Veale University Center- Case Western, Cleveland, OH*
 - Shanghai Natural History Museum, Shanghai, China*
 - Port of Seattle Sustainable Project Evaluation System, Seattle, WA*
 - Oregon Treasury Resilience Building, Salem, OR*

*Project completed by team members while at previous firms.



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract **Experience**

CANUTILLO INDEPENDENT SCHOOL DISTRICT

PROTEK DISINFECTION PROCESS MANAGEMENT & PEOPLE ASSURANCE TRAINING

EL PASO, TEXAS

Intertek was hired by the Canutillo Independent School District (CISD) to develop a plan to reopen their campuses for the 2020-2021 school year in compliance with local and state requirements as well as CDC guidelines in response to the COVID-19 pandemic.

Scope of Work

The scope of work was developed in collaboration with members of the CISD administration, and included:

Initial Assessment

Our staff preformed a walk-through of 10 representative CISD school sites and school buses for a general understanding of school conditions in order to address the cleaning and disinfection process, and to interview on-site personnel related to site specific concerns.

Cleaning/Disinfection Protocols

Intertek developed disinfection protocols based on CDC guidelines applied to specific site conditions on CISD campuses. We reviewed disinfection agents proposed for the project and compared to the EPA-approved list of disinfectants for use against SARS-CoV-2. The disinfection process included the application of disinfectants using electrostatic fogging techniques accompanied with wiping down of high touch surfaces such as door handles, light switches, countertops, handrails, toilets, faucets and lavatories.

Cleaning/Disinfection Process Observations & Verification Sampling

Intertek observed worker training, use of specified personal protective equipment (PPE), application of disinfecting agents, and thoroughness of cleaning. Following completion of the initial disinfection process, we evaluated the efficacy of the disinfection using field analysis of swab samples of high-touch surfaces utilizing adenosine triphosphate (ATP) testing technology.

Initial Disinfection Report

Following disinfection and testing, Intertek prepared a



report outlining the disinfection scope of work, observations, sampling procedures, and a summary of the ATP surface sampling results.

Routine Custodial Cleaning/Disinfection Protocol

Intertek develop a second Cleaning/Disinfection Protocol to enhance daily cleaning by CISD custodial staff based on CDC guidelines using disinfection agents based on the EPA-approved list for use against SARS-CoV-2 to emphasize infection control protocols.

Custodial Staff Training

CISD used Intertek's on-demand Protek People Assurance eLearning program for their custodial Staff. The on-line training platform provides end-to-end learning and certification solutions, consisting of COVID-19 hazard awareness training with specific modules covering personal protective equipment (PPE) use, cleaning and sanitation practices and other related topics. After the training, we provided on-site supplemental training to review key learning points and to address questions regarding application of the cleaning and disinfection protocols.

Quarterly Verification Sampling

Intertek will continue to test the efficacy of the custodial disinfection process on a quarterly basis. Testing consists of field analysis of surface swab samples from primary high-touch surfaces utilizing ATP testing technology.



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract **Experience**

CALIFORNIA STATE UNIVERSITY MARITIME ACADEMY

PROTEK DISINFECTION PROCESS MANAGEMENT ASSESSMENT

VELLEJO, CALIFORNIA

Background

Located in Vallejo, California, California State University Maritime Academy (Cal Maritime) is one of only seven degree granting maritime academies in the United States. School-sponsored, study-abroad trips aboard the 500-foot Training Ship Golden Bear provide first-hand exposure in international business, logistics, maritime security and maritime policy in locations around the world. Cal Maritime has been closed in response to COVID -19 related County and State orders. Cal Maritime successfully petitioned the State of California to allow approximately 400 students to return to the campus to complete coursework that could not be performed online. Intertek was subsequently requested by Cal Maritime to support the partial re-occupancy of the campus by providing a variety of Protek related consulting and testing services.

Scope of Services

The overall disinfection program for Cal Maritime involves an initial disinfection of designated campus areas using an outside contractor, with subsequent daily enhanced cleaning performed by trained in-house staff. Intertek, at the request of Cal Maritime, developed the disinfection and cleaning protocols and provided post cleaning efficacy testing.

The following scope of services was developed to assist Cal Maritime with the partial re-occupancy of the campus:

- Developing a disinfection protocol for an outside cleaning contractor,
- Developing cleaning procedures for University janitorial station
- Assisting with social distancing protocols
- Providing periodic observation of disinfection actions and
- Performing post disinfection efficacy testing.

Cal Maritime selected Belfor Property Restoration (Belfor) to perform the initial disinfection services. The Initial disinfection protocols were developed jointly by Intertek and Belfor based on applying applicable Center for Disease Control (CDC) guidelines to the specific types of campus environments required for partial reoccupancy. During



the Belfor disinfection process, Intertek will periodically observe Belfor's work practices to document adherence to project requirements and CDC guidelines.

Following the disinfection process, Intertek will evaluate the efficacy of the disinfection using surface swab samples of representative high-touch surfaces for field analysis utilizing adenosine triphosphate (ATP) testing technology.

After the initial disinfection, Cal Maritime maintenance staff will provide on-going daily cleaning. Intertek developed the routine cleaning procedures following discussions with the Cal Maritime facility management team, including representatives from student housing, the food service center, the student bookstore, instructors and janitorial and maintenance staff. The daily cleaning protocols focused on high touch surfaces, floors and instruction tools such as white boards, monitors and project equipment.

In addition to the cleaning protocol, Intertek assisted Cal Maritime with evaluating the application of social distancing requirements to classroom and laboratory settings. Intertek attended virtual meeting with managers of food service, event planning, facilities and the bookstore to discuss these specific environments and how best to apply social distancing. Intertek also developed some calculation worksheets to assist Cal Maritime determine possible loading of classrooms based virus.



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract **Experience**

SUBURBAN OFFICE (CONFIDENTIAL)

PROTEK FACILITY HEALTH MANAGEMENT ASSESSMENT

ATLANTA, GEORGIA

Background

A global company's regional office is in a one-story building in a suburban office park. The 21,300 square-foot tenant space includes private offices, open office, conference rooms and support spaces, providing workspace for 57 employees. The company's staff transitioned to work-from-home in March, but some staff began returning to the office in May. While the infections may have been contracted elsewhere, the company experienced two incidents of employees who spent time in the office testing positive for COVID-19. The company wanted to take proactive measures to reduce risks of virus transmission in the office and promote occupant health.

Scope of Services

Intertek was contracted to provide a Protek Facility Health Management (FHM) assessment of the office and to make recommendations on the most effective measures to reduce virus transmission risks. The assessment looked comprehensively at both administrative and engineering controls applicable to office policies and operations as well as physical elements and systems. Intertek's team included Engineering Economics Inc. (EEI) who performed a critical HVAC system assessment.

Results

The company had adopted an infectious disease response plan and initiated enhanced cleaning practices performed by staff. The assessment found a minor deficiency in the response plan, and identified the need to engage the landlord to implement enhance cleaning by the landlord's custodial vendor. After new practices are implemented, Intertek will perform ATP surface swab testing to confirm custodial effectiveness.

Signage is posted at key locations in the office to remind staff about respiratory and hand hygiene best practices. Hand sanitizer dispensers are also well positioned. The assessment identified opportunities to reduce high-touch surfaces; existing restroom fixtures and accessories, as



well as high-traffic door, require manual operation. The company will be retrofitting with hands-free fixtures and accessories, and elbow or foot pulls on high-use doors. The most significant findings of the assessment related to the HVAC systems. The Intertek team discovered that the ventilation system had never undergone a test, adjust and balance (TAB) process, even after the rooftop mechanical units (RTUs) were replaced in 2019. The system was not providing the minimum outside air requirements of ASHRAE 62.1 and was not balanced to ensure optimal ventilation in all occupied spaces. The Intertek team provided practical, climate and facility specific recommendations to reduce virus transmission risks, including:

- Conduct TAB to ensure adequate fresh air and effective ventilation
- Upgrade to MERV 11 filters in RTUs
- Installation of UVGI disinfection units in return air ducts
- Positioning of HEPA air cleaners in select higher-occupant-density spaces

This approach relied on proven technologies and avoided strategies, like significant increases in outside air ventilation, that would impact energy use and thermal comfort in a hot, humid climate. Collectively, these strategies reduced calculated virus



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract **Experience**

NEW PARKLAND HOSPITAL

BUILDING ENCLOSURE CONSULTING, TESTING AND INSPECTION

DALLAS, TEXAS

The nearly two million square foot Parkland Hospital is a replacement for the existing 55-year-old facility and, when complete, will be the largest public hospital building in the nation built in one phase. The project consists of an 862 bed hospital, as well as a separate clinic building, parking structures, and other support facilities.

Intertek’s services included project familiarization drawing review, mock-up testing, field testing, field inspections, construction phase services, and project closeout.

Intertek was hired to act as the Owner’s 3rd Party Testing and Inspection Agency for the building envelope. This included close coordination with the consortium of contractors on the project, BARA, to identify all envelope related construction issues on behalf of the Owner through an online project database.



Intertek has been instrumental in improving the quality of the air barrier system. Our recommendation to the Owner was to perform continuous spot check testing of the air barrier system to ensure that the system was not being compromised by intermittent application problems. Through test results, Intertek demonstrated that a minor change in application procedures can result in improved integrity of the air barrier system, and that change was implemented at no cost to the Owner.

TEXAS A&M UNIVERSITY NURSE AND HEALTH SCIENCE BUILDING

BUILDING ENCLOSURE COMMISSIONING

COMMERCE, TEXAS

The new School of Nursing and Health Sciences Building will be a 4 story 111,950 square feet building located south of Gee Lake on the west side of the main campus. This facility will house the Nursing Department, the Health and Human Performance Department, and the Biology Department. It will also serve general instruction classrooms and admissions advising function spaces. Scope of work included Design Phase through Occupancy Phase services, including reviews of design documents, development of the BECx specifications and Field Performance testing plan, review of product submittals and shop drawings, site visits to field monitor installation of building enclosure components, mock-up performance testing.



The design has a great deal of negatively pressurized spaces. Special attention had to be paid when engaging in BECx services.



A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract **Experience**

HOUSTON INDEPENDENT SCHOOL DISTRICT LAWSON MIDDLE SCHOOL **ROOF CONSTRUCTION INSPECTION**

HOUSTON, TEXAS

Intertek has an agreement with Houston Independent School District (HISD) to design and inspect roofs for various new and existing schools. In this capacity, we review details and specifications, conduct inspections during construction and make recommendations when revisions and corrections are required.



PEARL BREWERY SOUTH APARTMENTS

BUILDING ENCLOSURE DESIGN REVIEW, TESTING & INSPECTIONS

SAN ANTONIO, TEXAS

Intertek has an agreement with Silver Ventures provide building enclosure consulting for a new 200,000 square foot, four-story apartment complex with a total of 223-units and two enclosed courtyards. Our scope includes design review, construction inspection and testing services. The new apartment building will be an extension of the landmark Pearl Brewery District.

Intertek is currently providing design phase review, helping our client to balance superior building envelope design and with budget constraints. We are collaborating with Wallace Garcia Wilson Architects to meet this goal.





A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract **Experience**

WARRENTON-HAMMOND SCHOOL DISTRICT **BUILDING ENCLOSURE COMMISSIONING**

WARRENTON, OREGON

Intertek was hired by the Warrenton-Hammond School District to conduct building enclosure commissioning (BECx) for a new middle school, as well as repairs for an existing elementary school and high school, as part of their 2018 bond. Our team inspected the two existing schools that were experiencing cladding and flashing failures. We documented the areas of concern, recommended remediations and oversaw the general contractor's repair work.

For the new 45,317 square foot middle school, our team worked closely with the architect, reviewing and marking up enclosure details, and reviewing the selection and specification of cladding and roofing materials, helping to balance budget, durability and quality. We are currently providing construction phase review and inspection services, including submittal review and construction progress inspections.

Services included:

- Assistance with the Owner's Project Requirements (OPR) and initial Basis of Design (BOD)
- Initial Design Review, including enclosure related detailing and specification assistance
- Detail review included compliance with the energy code requirements, material compatibilities and installation sequencing
- Design team meetings to review provided comments and proposed detailing assistance
- RFI/Submittal review, including shop drawing comparisons with the project documents
- Construction Administration including periodic site review included in our scope





A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract **Experience**

ADDITIONAL PROJECTS

- Lawson Middle School, Houston Independent School District— Roof Consulting
- Waltrip High School, Houston Independent School District— Roof Consulting
- Worthing High School, Houston Independent School District – Phase I and Phase II Environmental Assessment consulting, asbestos consulting, and LEED Indoor Air Quality (IAQ) testing and reporting.
- Ridgemont Elementary School, Fort Bend Independent School District – Environmental consulting and asbestos and mold remediation consulting
- Bush Intercontinental Airport, Terminal A Recapitalization – Environmental consulting and asbestos, lead, hazardous material and mold remediation consulting
- Houston Astrodome Renovation – Environmental consulting and asbestos and mold remediation consulting during renovation
- Harris County Public Health – Lead based paint inspections and environmental consulting and lead inspection and testing for 175 residential buildings in the county
- Westbury High School, Houston Independent School District— Roof Consulting
- O.D. Wyatt High School, Fort Worth Independent School District—Roof Consulting





A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract

How offeror will educate its national sales force about the contract

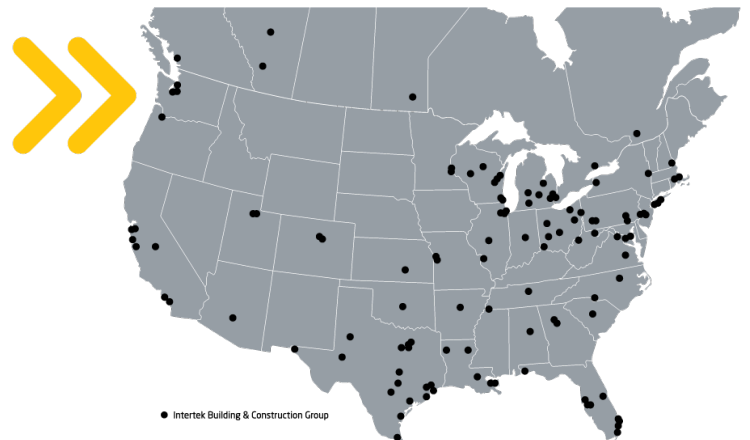
Intertek has a network of business development managers and operations staff located in offices across the U.S. in cities such as Houston, Dallas, Charlotte, Boston, Chicago, Pittsburgh, Washington D.C., Seattle, Denver, Los Angeles, Orlando and a number of other cities. Our corporate marketing department works hand-in-hand with our business development and operations staff to effectively market our services to our clients' needs with print and virtual content platforms such as e-blasts, blogs, social media posts, collateral, and direct outreach.

Demonstration of a strong national presence

Intertek is a leading quality solutions provider to industries worldwide. From auditing and inspection, to testing, training, advisory, quality assurance and certification, Intertek adds value for its customers by helping improve the quality and safety of their products, assets and processes. In total, Intertek offers a network of more than 1,000 laboratories and offices and over 46,000 employees in more than 100 countries. In the United States, Intertek maintains offices in 36 states.

Established in 1975, Architectural Testing, Inc. (Intertek-ATI) is one of the largest building enclosure and building products testing, inspection, certification and consulting companies in North America. In 2013, Intertek-ATI was acquired by Intertek, thus joining Intertek's Building and Construction division. At the end of 2015, Intertek acquired Professional Service Industries, Inc. (Intertek-PSI), a leading engineering and testing firm providing integrated quality assurance services across a range of disciplines within the construction market. Founded in 1961, Intertek-PSI specializes in construction material, geotechnical, environmental and property transaction services.

Intertek partner Engineering Economics Inc. (EEI), was established in 1984 and maintains offices in 17 cities in 14 states, including Texas, Colorado, California, Illinois, Ohio, Virginia, and Washington.





A. OMNIA Partners Documents

i. Appendix D, Exhibit A, Omnia Partners Response for National Cooperative Contract

Plan for nationwide service distribution

Intertek has designed our facility health consulting and quality assurance services to be delivered by centralized principal consultants and subject matter experts supported by broadly dispersed local technicians. We have over 100 offices in 36 states with qualified staff available to service projects in all locations with limited travel required. They work under the direction of our healthy building experts who are able to provide responsive and customized attention to clients in all locations. Additionally, Intertek maintains a network of highly qualified sub-consultants who expand and strengthen our geographic reach and provide complementary technical expertise.

Plan for marketing services nationwide

Intertek promotes its brands and services to targeted audiences across North America. We create awareness through both online and print advertising, and share promotional and educational material such as webinars and engineering white papers via the web, blogs, direct email campaigns, and social media.

Describe how volume will be tracked and reported to OMNIA Partners

Intertek utilizes a cloud-based point of sale (POS) system called Microsoft iConnect that allows us to effectively handle our leads, proposals and sales across multiple locations and multiple users. It provides a full dashboard of activity, allowing regular progress reporting on sales. iConnect also syncs with our Microsoft Outlook accounts for ease of use and the sharing of information to external sources like OMNIA. Additionally, we utilize Microsoft SharePoint to share files with external business.

We can create reports for Omnia and/or Region 4 ESC that show what leads, proposals and sales we have. Please see example to the right.

iCONNECT REPORT ACCOUNT PROFILE

iCONNECT REPORT						intertek Total Quality Assured.	
ACCOUNT PROFILE							
OPPORTUNITIES						No. of Opportunities:	7
						Total Value:	\$39475
Created	Opportunity	GBL	Intertek Owner	Status	Estimated Close Date	Estimated Value	
10/20/2020	Acoustical Testing - Unit 8	Building & Construction	Mohar, Amanda	In Progress-Quoted		\$1,500	
10/20/2020	Acoustical Testing - Unit 7	Building & Construction	Mohar, Amanda	In Progress-Quoted		\$1,500	
10/16/2020	NAFS-17 (Rating AWS0) and NYC Fall Prevention Testing on AA4325 Series Unit #2	Building & Construction	McGuire, Heather	Won		\$12,487	
10/16/2020	NAFS-17 (Rating AWS0) and NYC Fall Prevention Testing on AA4325 Series Unit #3	Building & Construction	McGuire, Heather	In Progress-Quoted		\$12,487	
10/15/2020	NAFS-17 (Rating AW80) Testing on AA4325 Series Unit #1	Building & Construction	McGuire, Heather	Won		\$7,585	
10/15/2020	NYC Fall Prevention Testing for AA4325 Series - Unit #4	Building & Construction					
5/22/2020	Kawneer IR 5017/501UT & Glasswre - Retest Unit #3B	Building & Construction					

***Only 20 most recent records shown; visit iConnect for cc

iCONNECT REPORT ACCOUNT PROFILE

iCONNECT REPORT						intertek Total Quality Assured.	
ACCOUNT PROFILE							
QUOTES						No. of Quotes:	4
						Total Value:	\$21094
Created	Quote	GBL	Intertek Owner	Status	Total Amount		
10/20/2020	Acoustical Testing - Unit 8	Building & Construction	Mohar, Amanda	Active	\$2,300.00		
10/20/2020	Acoustical Testing - Unit 7	Building & Construction	Mohar, Amanda	Active	\$2,100.00		
10/15/2020	NAFS-17 (Rating AWS0) and NYC Fall Prevention Testing on AA4325 Series Unit #2	Building & Construction	McGuire, Heather	Won	\$13,487.00		
5/22/2020	Kawneer IR 5017/501UT & Glasswre - Retest Unit #3B	Building & Construction	McGuire, Heather	Won	\$3,207.50		

***Only 20 most recent records shown; visit iConnect for comprehensive information

Thursday, October 29, 2020



DRAFT CONTRACT AND OFFER AND CONTRACT SIGNATURE FORM

A. Terms and Conditions Acceptance Form (Appendix B)

Exceptions/Proposed Modifications

Region 4 ESC Draft Contract			
Section/Page	Term, Condition, or Specification	Exception/Proposed Modification	Accepted (For Region 4 ESC's use)
Section 2.2/Page 39	Pricing Commitment	We will offer transparent pricing under the Master Service Agreement, including identification of economies available based on volume and scale of projects. We will offer the client the best pricing that any client in the area is offered by our company for those services. The scope of our services for specific facilities is dependent on the size, complexity and unique needs of the facility, and we can establish not-to-exceed pricing for specific projects and tasks after defining the unique scopes of work required.	
Section 3.1/Page 39	D. Annual Sales for the three previous years	We are owned by a publicly traded company. We can provide our annual reports of our parent company. Due to security laws, we cannot provide nonpublic financial information.	
Section 3.1/Page 40	J. Describe any present or past litigation, bankruptcy or reorganization involving supplier	Intertek has no past bankruptcy's or reorganizations. Regarding litigation, we do not maintain a comprehensive database of claims. As a large public company, we do have some current litigation. However, none of our current litigation will effect the services that we provide.	



DRAFT CONTRACT AND OFFER AND CONTRACT SIGNATURE FORM

A. Terms and Conditions Acceptance Form (Appendix B)

Exceptions/Proposed Modifications

Region 4 ESC Draft Contract			
Section/Page	Term, Condition, or Specification	Exception/Proposed Modification	Accepted (For Region 4 ESC's use)
Section 3.3/Page 41	iv. Commitment to attendance and participation with OMNIA Partners at national, regional, and supplier-specific trade shows, conferences, and meetings throughout the terms of the Master	We are open to discussions on ways to promote the Master Service Agreement, including attendance and participation in applicable trade shows, conferences and meetings, within reasonable limits.	
Section 3.3/Page 41	v. Commitment to attend, exhibit and participate at the NIGP Annual Forum	We are open to discussions on ways to promote the Master Service Agreement.	
Section 3.3/Page 42	vi. Design and publication of national and regional advertising in trade publications throughout the term of the Master Agreement	We are open to discussions on ways to promote the Master Service Agreement.	
Section 3.3/Page 42	viii. Dedicated OMNIA Partners internet web based homepage on Supplier's web site	Due to parent company policy, there are limits to what we can commit to on our web site. We can discuss ways to promote the OMNIA Partners relationship on the web, including a web site hosted by OMNIA Partners.	
Section 3.3/Page 42	C. Describe how Supplier will transition any existing public agency customers' account to the Master Agreement	As a large company with multiple divisions and service offerings, with numerous decentralized regional offices with longstanding direct relationships with local public agencies, we don't intend to transition current public agency customers accounts to the MSA. However, if other government clients want to use the Master Service Agreement for the primary services covered under this RFQ, we would be open to discuss this as an option.	
Section 3.3/Page 42	D. Acknowledge Supplier agrees to provide its logo(s) to OMNIA Partners	We can provide our logo but we would need to approve its specific use, and would have the right to revoke the use at any time.	
Section 3.3/Page 43	J. State the amount of Supplier's Public Agency sales for the previous fiscal year. Provide a list of supplier's top 10 public agency customers, the total purchases for each for the previous fiscal year along with a key contact for each	As a large, publicly traded company with multiple divisions, we cannot provide specific public agency sales data. In Tab 4, we have provided references for a number of public agency clients who are familiar with individual members on our proposed primary team, and for whom we have provided types of services (consulting, inspection, testing, etc.) broadly relevant to the scope of this RFQ. We can provide additional public agency references upon request.	
Section 3.3/Page 43-44	i. Provide the Contract Sales that Supplier will guarantee each year under the Master Agreement for the initial three years of the Master Agreement	We can't guarantee a certain amount of sales each year.	
Section 3.3/Page 44	M./ii. If Supplier is awarded the contract, the sales are reported as Contract Sales to OMNIA Partners under the Master Agreement	We will report sales awarded to the contract.	



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

**EXHIBIT F
FEDERAL FUNDS CERTIFICATIONS**

FEDERAL CERTIFICATIONS

ADDENDUM FOR AGREEMENT FUNDED BY U.S. FEDERAL GRANT

TO WHOM IT MAY CONCERN:

Participating Agencies may elect to use federal funds to purchase under the Master Agreement. This form should be completed and returned.

DEFINITIONS

Contract means a legal instrument by which a non-Federal entity purchases property or services needed to carry out the project or program under a Federal award. The term as used in this part does not include a legal instrument, even if the non-Federal entity considers it a contract, when the substance of the transaction meets the definition of a Federal award or subaward

Contractor means an entity that receives a contract as defined in Contract.

Cooperative agreement means a legal instrument of financial assistance between a Federal awarding agency or pass-through entity and a non-Federal entity that, consistent with 31 U.S.C. 6302-6305:

- (a) Is used to enter into a relationship the principal purpose of which is to transfer anything of value from the Federal awarding agency or pass-through entity to the non-Federal entity to carry out a public purpose authorized by a law of the United States (see 31 U.S.C. 6101(3)); and not to acquire property or services for the Federal government or pass-through entity's direct benefit or use;
- (b) Is distinguished from a grant in that it provides for substantial involvement between the Federal awarding agency or pass-through entity and the non-Federal entity in carrying out the activity contemplated by the Federal award.
- (c) The term does not include:
 - (1) A cooperative research and development agreement as defined in 15 U.S.C. 3710a; or
 - (2) An agreement that provides only:
 - (i) Direct United States Government cash assistance to an individual;
 - (ii) A subsidy;
 - (iii) A loan;
 - (iv) A loan guarantee; or
 - (v) Insurance.

Federal awarding agency means the Federal agency that provides a Federal award directly to a non-Federal entity

Federal award has the meaning, depending on the context, in either paragraph (a) or (b) of this section:

- (a)(1) The Federal financial assistance that a non-Federal entity receives directly from a Federal awarding agency or indirectly from a pass-through entity, as described in § 200.101 Applicability; or
- (2) The cost-reimbursement contract under the Federal Acquisition Regulations that a non-Federal entity receives directly from a Federal awarding agency or indirectly from a pass-through entity, as described in § 200.101 Applicability.
- (b) The instrument setting forth the terms and conditions. The instrument is the grant agreement, cooperative agreement, other agreement for assistance covered in paragraph (b) of § 200.40 Federal financial assistance, or the cost-reimbursement contract awarded under the Federal Acquisition Regulations.
- (c) Federal award does not include other contracts that a Federal agency uses to buy goods or services from a contractor or a contract to operate Federal government owned, contractor operated facilities (GOCOs).
- (d) See also definitions of Federal financial assistance, grant agreement, and cooperative agreement.

Non-Federal entity means a state, local government, Indian tribe, institution of higher education (IHE), or nonprofit organization that carries out a Federal award as a recipient or subrecipient.

Nonprofit organization means any corporation, trust, association, cooperative, or other organization, not including IHEs, that:

- (a) Is operated primarily for scientific, educational, service, charitable, or similar purposes in the public interest;
- (b) Is not organized primarily for profit; and



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

(c) Uses net proceeds to maintain, improve, or expand the operations of the organization.

Obligations means, when used in connection with a non-Federal entity's utilization of funds under a Federal award, orders placed for property and services, contracts and subawards made, and similar transactions during a given period that require payment by the non-Federal entity during the same or a future period.

Pass-through entity means a non-Federal entity that provides a subaward to a subrecipient to carry out part of a Federal program.

Recipient means a non-Federal entity that receives a Federal award directly from a Federal awarding agency to carry out an activity under a Federal program. The term recipient does not include subrecipients.

Simplified acquisition threshold means the dollar amount below which a non-Federal entity may purchase property or services using small purchase methods. Non-Federal entities adopt small purchase procedures in order to expedite the purchase of items costing less than the simplified acquisition threshold. The simplified acquisition threshold is set by the Federal Acquisition Regulation at 48 CFR Subpart 2.1 (Definitions) and in accordance with 41 U.S.C. 1908. As of the publication of this part, the simplified acquisition threshold is \$250,000, but this threshold is periodically adjusted for inflation. (Also see definition of § 200.67 Micro-purchase.)

Subaward means an award provided by a pass-through entity to a subrecipient for the subrecipient to carry out part of a Federal award received by the pass-through entity. It does not include payments to a contractor or payments to an individual that is a beneficiary of a Federal program. A subaward may be provided through any form of legal agreement, including an agreement that the pass-through entity considers a contract.

Subrecipient means a non-Federal entity that receives a subaward from a pass-through entity to carry out part of a Federal program; but does not include an individual that is a beneficiary of such program. A subrecipient may also be a recipient of other Federal awards directly from a Federal awarding agency.

Termination means the ending of a Federal award, in whole or in part at any time prior to the planned end of period of performance.

The following certifications and provisions may be required and apply when Participating Agency expends federal funds for any purchase resulting from this procurement process. Pursuant to 2 C.F.R. § 200.326, all contracts, including small purchases, awarded by the Participating Agency and the Participating Agency's subcontractors shall contain the procurement provisions of Appendix II to Part 200, as applicable.

APPENDIX II TO 2 CFR PART 200

(A) Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

Pursuant to Federal Rule (A) above, when a Participating Agency expends federal funds, the Participating Agency reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

(B) Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be effected and the basis for settlement. (All contracts in excess of \$10,000)

Pursuant to Federal Rule (B) above, when a Participating Agency expends federal funds, the Participating Agency reserves the right to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by Offeror as detailed in the terms of the contract.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 CFR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Pursuant to Federal Rule (C) above, when a Participating Agency expends federal funds on any federally assisted construction contract, the equal opportunity clause is incorporated by reference herein.

Does offeror agree to abide by the above? YES SV Initials of Authorized Representative of offeror

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Pursuant to Federal Rule (D) above, when a Participating Agency expends federal funds during the term of an award for all contracts and subgrants for construction or repair, offeror will be in compliance with all applicable Davis-Bacon Act provisions.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

Pursuant to Federal Rule (E) above, when a Participating Agency expends federal funds, offeror certifies that offeror will be in compliance with all applicable provisions of the Contract Work Hours and Safety Standards Act during the term of an award for all contracts by Participating Agency resulting from this procurement process.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

Pursuant to Federal Rule (F) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror agrees to comply with all applicable requirements as referenced in Federal Rule (F) above.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251- 1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA)



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Pursuant to Federal Rule (G) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency member resulting from this procurement process, the offeror agrees to comply with all applicable requirements as referenced in Federal Rule (G) above.

Does offeror agree? YES _____ SV _____ Initials of Authorized Representative of offeror

(H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the Executive Office of the President Office of Management and Budget (OMB) guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Pursuant to Federal Rule (H) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency. If at any time during the term of an award the offeror or its principals becomes debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency, the offeror will notify the Participating Agency.

Does offeror agree? YES _____ SV _____ Initials of Authorized Representative of offeror

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term and after the awarded term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror certifies that it is in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriate tiers and that all subrecipients shall certify and disclose accordingly.

Does offeror agree? YES _____ SV _____ Initials of Authorized Representative of offeror

RECORD RETENTION REQUIREMENTS FOR CONTRACTS INVOLVING FEDERAL FUNDS

When federal funds are expended by Participating Agency for any contract resulting from this procurement process, offeror certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The offeror further certifies that offeror will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending matters are closed.

Does offeror agree? YES _____ SV _____ Initials of Authorized Representative of offeror

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When Participating Agency expends federal funds for any contract resulting from this procurement process, offeror certifies that it will comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18).



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Does offeror agree? YES SV Initials of Authorized Representative of offeror

CERTIFICATION OF COMPLIANCE WITH BUY AMERICA PROVISIONS

To the extent purchases are made with Federal Highway Administration, Federal Railroad Administration, or Federal Transit Administration funds, offeror certifies that its products comply with all applicable provisions of the Buy America Act and agrees to provide such certification or applicable waiver with respect to specific products to any Participating Agency upon request. Purchases made in accordance with the Buy America Act must still follow the applicable procurement rules calling for free and open competition.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

CERTIFICATION OF ACCESS TO RECORDS – 2 C.F.R. § 200.336

Offeror agrees that the Inspector General of the Agency or any of their duly authorized representatives shall have access to any documents, papers, or other records of offeror that are pertinent to offeror's discharge of its obligations under the Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The right also includes timely and reasonable access to offeror's personnel for the purpose of interview and discussion relating to such documents.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

CERTIFICATION OF APPLICABILITY TO SUBCONTRACTORS

Offeror agrees that all contracts it awards pursuant to the Contract shall be bound by the foregoing terms and conditions.

Does offeror agree? YES SV Initials of Authorized Representative of offeror

Offeror agrees to comply with all federal, state, and local laws, rules, regulations and ordinances, as applicable. It is further acknowledged that offeror certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted above.

Offeror's Name: Professional Service Industries, Inc.

Address, City, State, and Zip Code: 3730 Dacoma Street, Houston, TX 77092

Phone Number: 713.224.2047 Fax Number: _____

Printed Name and Title of Authorized Representative: Shashank Valluru, P.E., Regional Vice President

Email Address: Shashank.valluru@intertek.com

Signature of Authorized Representative: [Signature] Date: November 12, 2020



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

DOC #1

OWNERSHIP DISCLOSURE FORM
(N.J.S. 52:25-24.2)

Pursuant to the requirements of P.L. 1999, Chapter 440 effective April 17, 2000 (Local Public Contracts Law), the offeror shall complete the form attached to these specifications listing the persons owning 10 percent (10%) or more of the firm presenting the proposal.

Company Name: Intertek

Street: 3730 Dacoma Street

City, State, Zip Code: Houston, Texas 77092

Complete as appropriate:

I _____, certify that I am the sole owner of _____, that there are no partners and the business is not incorporated, and the provisions of N.J.S. 52:25-24.2 do not apply.

OR:

I _____, a partner in _____, do hereby certify that the following is a list of all individual partners who own a 10% or greater interest therein. I further certify that if one (1) or more of the partners is itself a corporation or partnership, there is also set forth the names and addresses of the stockholders holding 10% or more of that corporation's stock or the individual partners owning 10% or greater interest in that partnership.

OR:

I Shashank Valluru, PE, an authorized representative of Intertek, a corporation, do hereby certify that the following is a list of the names and addresses of all stockholders in the corporation who own 10% or more of its stock of any class. I further certify that if one (1) or more of such stockholders is itself a corporation or partnership, that there is also set forth the names and addresses of the stockholders holding 10% or more of the corporation's stock or the individual partners owning a 10% or greater interest in that partnership.

(Note: If there are no partners or stockholders owning 10% or more interest, indicate none.)

Name	Address	Interest

I further certify that the statements and information contained herein, are complete and correct to the best of my knowledge and belief.

November 12, 2020

Date

Authorized Signature and Title



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

DOC #2

NON-COLLUSION AFFIDAVIT

Company Name: Intertek

Street: 3730 Dacoma Street

City, State, Zip Code: Houston, Texas 77092

State of Texas

County of Harris County

I, Shashank Valluru, PE of the Houston
Name City

in the County of Harris, State of Texas
of full age, being duly sworn according to law on my oath depose and say that:

I am the Regional Vice President of the firm of Intertek
Title Company Name

the Offeror making the Proposal for the goods, services or public work specified under the attached proposal, and that I executed the said proposal with full authority to do so; that said Offeror has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above proposal, and that all statements contained in said proposal and in this affidavit are true and correct, and made with full knowledge that relies upon the truth of the statements contained in said proposal and in the statements contained in this affidavit in awarding the contract for the said goods, services or public work.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by

Intertek
Company Name

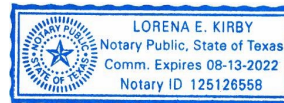
[Signature]
Authorized Signature & Title

Regional Vice President

Subscribed and sworn before me

this 12 day of November, 2020

Lorena E. Kirby
Notary Public of State of Texas
My commission expires August 13,, 2022



SEAL



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

DOC #3

**AFFIRMATIVE ACTION AFFIDAVIT
(P.L. 1975, C.127)**

Company Name: Intertek
Street: 3730 Dacoma Street
City, State, Zip Code: Houston, Texas 77092

Proposal Certification:

Indicate below company’s compliance with New Jersey Affirmative Action regulations. Company’s proposal will be accepted even if company is not in compliance at this time. No contract and/or purchase order may be issued, however, until all Affirmative Action requirements are met.

Required Affirmative Action Evidence:

Procurement, Professional & Service Contracts (Exhibit A)

Vendors must submit with proposal:

1. A photo copy of their Federal Letter of Affirmative Action Plan Approval

OR

2. A photo copy of their Certificate of Employee Information Report

OR

3. A complete Affirmative Action Employee Information Report (AA302) _____

Public Work – Over \$50,000 Total Project Cost:

- A. No approved Federal or New Jersey Affirmative Action Plan. We will complete Report Form AA201-A upon receipt from the
- B. Approved Federal or New Jersey Plan – certificate enclosed

I further certify that the statements and information contained herein, are complete and correct to the best of my knowledge and belief.

November 12, 2020

Date



Authorized Signature and Title
Regional Vice President



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Document #3– Affirmative Action Affidavit



**EQUAL EMPLOYMENT OPPORTUNITY POLICY
AND STATEMENT OF AFFIRMATIVE ACTION**

It is the policy of Intertek and its subsidiaries to employ qualified persons without discrimination against any employee or applicant for employment because of ancestry, age, color, disability, genetic information, gender, gender identity, protected veteran status, national origin, race, religion, sexual orientation, or any other protected group status and further, to take affirmative action to employ and advance in employment qualified minorities, women, individuals with disabilities and or disabled veteran, Armed Forces service medal veteran, recently separated veteran, or active duty wartime or campaign badge veteran, or thereafter referred collectively as “protected veterans.” It is also the policy of Intertek to take affirmative action to employ and to advance in employment, all persons regardless of their status as individuals with disabilities or protected veterans, and to base all employment decisions only on valid job requirements. This policy shall apply to all employment actions, including but not limited to recruitment, hiring, upgrading, promotion, transfer, demotion, layoff, recall, termination, rates of pay or other forms of compensation and selection for training, including apprenticeship, at all levels of employment.

To implement this policy, Intertek has established Affirmative Action Programs by which we undertake that:

- We will recruit, hire, train and promote persons in all job titles and ensure that all other personnel actions are administered without regard to color, disability, gender identity, veteran status, national origin, race, religion, sex and sexual orientation;
- We will base decisions on employment to further the principle of equal employment opportunity;
- We will insure that all personnel actions such as compensation, benefits, transfers, promotions, layoffs, return from layoffs, training and education will be administered without regard to color, disability, gender identity, veteran status, national origin, race, religion, sex and sexual orientation;
- In accordance with the Rehabilitation Act of 1973 and the Vietnam Era Veterans’ Readjustment Assistance Act of 1974, the company will take affirmative action to employ and advance in employment qualified individuals with physical and mental disabilities, and protected veterans at all levels of employment. An applicant or employee may review the Affirmative Action Plans for Individuals with Disabilities and for Protected Veterans by contacting Human Resources at 1-877-694-8543 or bo.hr.ssc@intertek.com to schedule an appointment to review the plan(s) during regular working hours.

The overall responsibility for the implementation of this policy is the Vice President of Human Resources who is designated as the Equal Opportunity Official. One of the Equal Opportunity Official's duties is to establish and maintain an internal audit and reporting system to allow for effective measurement of Intertek’s programs.





A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Document #3– Affirmative Action Affidavit



Employees and applicants for employment shall not be subjected to harassment, intimidation, threats, coercion or discrimination because they have engaged or may engage in filing a complaint, assisted in a review, investigation or hearing, or have otherwise sought to obtain their legal rights under, or opposed any act or practice made unlawful under any federal, state, or local EEO law.

Any employee who believes that he or she has been subjected to discrimination, harassment, or other prohibited behavior by his/her supervisor, any member of management, co-worker, third-party vendors or in the course of conducting the company's business, should contact his/her supervisor or manager, a human resources representative, or the Vice President of Human Resources. Policy violations may also be reported by calling the Compliance Hotline at 1-800-461-9330 or accessing the Intertek Hotline at www.intertekhotline.com.

Any supervisor, manager or human resources representative who is aware of a complaint must ensure that it is promptly reported, investigated and treated confidentially. All employees and all levels of management are expected to provide assistance and support for this policy to assure complete compliance. Failure to cooperate in an investigation will result in discipline up to and including termination of employment. As noted above, retaliatory treatment of any employee reporting discrimination, harassment, or other prohibited behavior is strictly prohibited and should be reported immediately to his/her supervisor, manager or human resources representative, by calling the Intertek Hotline at 1-800-461-9330 or at www.intertekhotline.com.

Further, Intertek will not discipline, discharge, take adverse employment action, or in any other manner discriminate or take action against any employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. However, employees who have access to the compensation information of other employees or applicants as part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing or action, including an investigation conducted by Intertek, or (c) consistent with Intertek's legal duty to furnish this information.

While certain employees are designated to administer the company's Equal Employment Opportunity and Affirmative Action Programs, every person at Intertek shares responsibility for making it work and ensuring that we achieve the full intent of the company policy.

I wish to reaffirm and reemphasize that this policy applies throughout Intertek and each of its subsidiaries.

May 2020

Gregg Tiemann
Executive Vice President, Americas

Date



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

DOC #3, continued

**P.L. 1995, c. 127 (N.J.A.C. 17:27)
MANDATORY AFFIRMATIVE ACTION LANGUAGE**

**PROCUREMENT, PROFESSIONAL AND SERVICE
CONTRACTS**

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. The contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this non-discrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisement for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation.

The contractor or subcontractor, where applicable, will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to attempt in good faith to employ minority and female workers trade consistent with the applicable county employment goal prescribed by N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, C.127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the Affirmative Action Office pursuant to N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, C.127, as amended and supplemented from time to time.

The contractor or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the state of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

The contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and lay-off to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and conform with the applicable employment goals, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor and its subcontractors shall furnish such reports or other documents to the Affirmative Action Office as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Affirmative Action Office for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code (NJAC 17:27).

Signature of Procurement Agent



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

DOC #4

C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

Public Agency Instructions

This page provides guidance to public agencies entering into contracts with business entities that are required to file Political Contribution Disclosure forms with the agency. **It is not intended to be provided to contractors.** What follows are instructions on the use of form local units can provide to contractors that are required to disclose political contributions pursuant to N.J.S.A. 19:44A-20.26 (P.L. 2005, c. 271, s.2). Additional information on the process is available in Local Finance Notice 2006-1 (http://www.nj.gov/dca/divisions/dlgs/resources/lfns_2006.html). Please refer back to these instructions for the appropriate links, as the Local Finance Notices include links that are no longer operational.

1. The disclosure is required for all contracts in excess of \$17,500 that are **not awarded** pursuant to a “fair and open” process (N.J.S.A. 19:44A-20.7).
2. Due to the potential length of some contractor submissions, the public agency should consider allowing data to be submitted in electronic form (i.e., spreadsheet, pdf file, etc.). Submissions must be kept with the contract documents or in an appropriate computer file and be available for public access. **The form is worded to accept this alternate submission.** The text should be amended if electronic submission will not be allowed.
3. The submission must be **received from the contractor and** on file at least 10 days prior to award of the contract. Resolutions of award should reflect that the disclosure has been received and is on file.
4. The contractor must disclose contributions made to candidate and party committees covering a wide range of public agencies, including all public agencies that have elected officials in the county of the public agency, state legislative positions, and various state entities. The Division of Local Government Services recommends that contractors be provided a list of the affected agencies. This will assist contractors in determining the campaign and political committees of the officials and candidates affected by the disclosure.
 - a. The Division has prepared model disclosure forms for each county. They can be downloaded from the “County PCD Forms” link on the Pay-to-Play web site at <http://www.nj.gov/dca/divisions/dlgs/programs/lpcl.html#12>. They will be updated from time-to-time as necessary.
 - b. A public agency using these forms **should edit them to properly reflect the correct legislative district(s)**. As the forms are county-based, **they list all legislative districts** in each county. **Districts that do not represent the public agency should be removed from the lists.**
 - c. Some contractors may find it easier to provide a single list that covers all contributions, regardless of the county. These submissions are appropriate and should be accepted.
 - d. The form may be used “as-is”, subject to edits as described herein.
 - e. The “Contractor Instructions” sheet is intended to be provided with the form. It is recommended that the Instructions and the form be printed on the same piece of paper. The form notes that the Instructions are printed on the back of the form; where that is not the case, the text should be edited accordingly.
 - f. The form is a Word document and can be edited to meet local needs, and posted for download on web sites, used as an e-mail attachment, or provided as a printed document.
5. It is recommended that the contractor also complete a “Stockholder Disclosure Certification.” This will assist the local unit in its obligation to ensure that contractor did not make any prohibited contributions to the committees listed on the Business Entity Disclosure Certification in the 12 months prior to the contract (See Local Finance Notice 2006-7 for additional information on this obligation at http://www.nj.gov/dca/divisions/dlgs/resources/lfns_2006.html). A sample Certification form is part of this package and the instruction to complete it is included in the Contractor Instructions. NOTE: This section is not applicable to Boards of Education.



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

DOC #4, continued

C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

Contractor Instructions

Business entities (contractors) receiving contracts from a public agency that are NOT awarded pursuant to a “fair and open” process (defined at [N.J.S.A. 19:44A-20.7](#)) are subject to the provisions of P.L. 2005, c. 271, s.2 ([N.J.S.A. 19:44A-20.26](#)). This law provides that 10 days prior to the award of such a contract, the contractor shall disclose contributions to:

- any State, county, or municipal committee of a political party
- any legislative leadership committee*
- any continuing political committee (a.k.a., political action committee)
- any candidate committee of a candidate for, or holder of, an elective office:
 - of the public entity awarding the contract
 - of that county in which that public entity is located
 - of another public entity within that county
 - or of a legislative district in which that public entity is located or, when the public entity is a county, of any legislative district which includes all or part of the county

The disclosure must list reportable contributions to any of the committees that exceed \$300 per election cycle that were made during the 12 months prior to award of the contract. See [N.J.S.A. 19:44A-8](#) and [19:44A-16](#) for more details on reportable contributions.

[N.J.S.A. 19:44A-20.26](#) itemizes the parties from whom contributions must be disclosed when a business entity is not a natural person. This includes the following:

- individuals with an “interest” ownership or control of more than 10% of the profits or assets of a business entity or 10% of the stock in the case of a business entity that is a corporation for profit
- all principals, partners, officers, or directors of the business entity or their spouses
- any subsidiaries directly or indirectly controlled by the business entity
- IRS Code Section 527 New Jersey based organizations, directly or indirectly controlled by the business entity and filing as continuing political committees, (PACs).

When the business entity is a natural person, “a contribution by that person’s spouse or child, residing therewith, shall be deemed to be a contribution by the business entity.” [[N.J.S.A. 19:44A-20.26\(b\)](#)] The contributor must be listed on the disclosure.

Any business entity that fails to comply with the disclosure provisions shall be subject to a fine imposed by ELEC in an amount to be determined by the Commission which may be based upon the amount that the business entity failed to report.

The enclosed list of agencies is provided to assist the contractor in identifying those public agencies whose elected official and/or candidate campaign committees are affected by the disclosure requirement. It is the contractor’s responsibility to identify the specific committees to which contributions may have been made and need to be disclosed. The disclosed information may exceed the minimum requirement.

The enclosed form, a content-consistent facsimile, or an electronic data file containing the required details (along with a signed cover sheet) may be used as the contractor’s submission and is disclosable to the public under the Open Public Records Act.

The contractor must also complete the attached Stockholder Disclosure Certification. This will assist the agency in meeting its obligations under the law. **NOTE: This section does not apply to Board of Education contracts.**

* [N.J.S.A. 19:44A-3\(s\)](#): “The term “legislative leadership committee” means a committee established, authorized to be established, or designated by the President of the Senate, the Minority Leader of the Senate, the Speaker of the General Assembly or the Minority Leader of the General Assembly pursuant to section 16 of P.L.1993, c.65 (C.19:44A-10.1) for the purpose of receiving contributions and making expenditures.”



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

DOC #4, continued

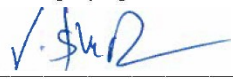
C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM
 Required Pursuant to N.J.S.A. 19:44A-20.26

This form or its permitted facsimile must be submitted to the local unit no later than 10 days prior to the award of the contract.

Part I – Vendor Information

Vendor Name: Inteftek			
Address: 3730 Dacoma Street			
City: Houston	State: Texas	Zip: 77092	

The undersigned being authorized to certify, hereby certifies that the submission provided herein represents compliance with the provisions of N.J.S.A. 19:44A-20.26 and as represented by the Instructions accompanying this form.


Shashank Valluru, PE
Regional Vice President
 Signature Printed Name Title

Part II – Contribution Disclosure

Disclosure requirement: Pursuant to N.J.S.A. 19:44A-20.26 this disclosure must include all reportable political contributions (more than \$300 per election cycle) over the 12 months prior to submission to the committees of the government entities listed on the form provided by the local unit.

Check here if disclosure is provided in electronic form

Contributor Name	Recipient Name	Date	Dollar Amount
			\$

Check here if the information is continued on subsequent page(s)



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and [Exhibit G](#)

DOC #4, continued

List of Agencies with Elected Officials Required for Political Contribution Disclosure
N.J.S.A. 19:44A-20.26

County Name:

State: Governor, and Legislative Leadership Committees

Legislative District #s:

State Senator and two members of the General Assembly per district.

County:

Freeholders

County Clerk

Sheriff

{County Executive}

Surrogate

Municipalities (Mayor and members of governing body, regardless of title):

**USERS SHOULD CREATE THEIR OWN FORM, OR DOWNLOAD
FROM THE PAY TO PLAY SECTION OF THE DLGS WEBSITE A
COUNTY-BASED, CUSTOMIZABLE FORM.**



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Intertek is a publicly traded company listed on the London Stock exchange under the symbol ITRK. We have over 161 million outstanding shares of stock, and probably have tens of thousands of individual stockholders. We don't have a record of these stockholders because we are publicly traded. Pursuant to securities laws, Intertek releases investor information at the website: <https://www.intertek.com/investors/>

DOC #5

STOCKHOLDER DISCLOSURE CERTIFICATION

Name of Business:

I certify that the list below contains the names and home addresses of all stockholders holding 10% or more of the issued and outstanding stock of the undersigned.

OR

I certify that no one stockholder owns 10% or more of the issued and outstanding stock of the undersigned.

Check the box that represents the type of business organization:

Partnership Corporation Sole Proprietorship

Limited Partnership Limited Liability Corporation Limited Liability Partnership

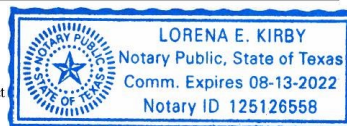
Subchapter S Corporation

Sign and notarize the form below, and, if necessary, complete the stockholder list below.

Stockholders:

Name:	Name:
Home Address:	Home Address:
Name:	Name:
Home Address:	Home Address:
Name:	Name:
Home Address:	Home Address:

Subscribed and sworn before me this 12 day of November, 2020 Lorena E. Kirby
 2__ (Affiant)
 (Notary Public) Notary Public, State of Texas
 My Commission expires: 08-13-2022 (Print name & title of affiant)
 (Corporate Seal)





A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and **Exhibit G**

DOC #6

Certification of Non-Involvement in Prohibited Activities in Iran

Pursuant to N.J.S.A. 52:32-58, Offerors must certify that neither the Offeror, nor any of its parents, subsidiaries, and/or affiliates (as defined in N.J.S.A. 52:32 – 56(e) (3)), is listed on the Department of the Treasury’s List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32 – 56(f).

Offerors wishing to do business in New Jersey through this contract must fill out the Certification of Non-Involvement in Prohibited Activities in Iran here:

http://www.state.nj.us/humanservices/dfd/info/standard/fdc/disclosure_investmentact.pdf.

Offerors should submit the above form completed with their proposal.



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Certificate of Non-Involvement in Prohibited Activities in Iran Form

**STATE OF NEW JERSEY -- DIVISION OF PURCHASE AND PROPERTY
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN**

Quote Number: _____ Bidder/Offeror: _____

**PART 1: CERTIFICATION
BIDDERS MUST COMPLETE PART 1 BY CHECKING EITHER BOX.
FAILURE TO CHECK ONE OF THE BOXES WILL RENDER THE PROPOSAL NON-RESPONSIVE.**

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list is found on the Division's website at <http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Bidders must review this list prior to completing the below certification. Failure to complete the certification will render a bidder's proposal non-responsive. If the Director finds a person or entity to be in violation of law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party

PLEASE CHECK THE APPROPRIATE BOX:

I certify, pursuant to Public Law 2012, c. 25, that neither the bidder listed above nor any of the bidder's parents, subsidiaries, or affiliates is listed on the N.J. Department of the Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). I further certify that I am the person listed above, or I am an officer or representative of the entity listed above and am authorized to make this certification on its behalf. I will skip Part 2 and sign and complete the Certification below.

OR

I am unable to certify as above because the bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

PART 2: PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

You must provide a detailed, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

EACH BOX WILL PROMPT YOU TO PROVIDE INFORMATION RELATIVE TO THE ABOVE QUESTIONS. PLEASE PROVIDE THOROUGH ANSWERS TO EACH QUESTION. IF YOU NEED TO MAKE ADDITIONAL ENTRIES, CLICK THE "ADD AN ADDITIONAL ACTIVITIES ENTRY" BUTTON.

Name _____ Relationship to Bidder/Offeror _____


Description of Activities _____

Duration of Engagement _____ Anticipated Cessation Date _____

Bidder/Offeror Contact Name _____ Contact Phone Number _____

ADD AN ADDITIONAL ACTIVITIES ENTRY

Certification: I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above-referenced person or entity. I acknowledge that the State of New Jersey is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to notify the State in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with the State of New Jersey and that the State at its option may declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): Shashank Valluru, PE Signature: 

Title: Regional Vice President Date: November 12, 2020



A. OMNIA Partners Documents

iii. Completed Appendix D, Exhibits F and Exhibit G

Intertek is licensed and capped of executing projects in New Jersey.

DOC #7

NEW JERSEY BUSINESS REGISTRATION CERTIFICATE (N.J.S.A. 52:32-44)

Offerors wishing to do business in New Jersey must submit their State Division of Revenue issued Business Registration Certificate with their proposal here. Failure to do so will disqualify the Offeror from offering products or services in New Jersey through any resulting contract.

<https://www.njportal.com/DOR/BusinessRegistration/>

11/03/15

Taxpayer Identification# 231-999-985/000

Dear Business Representative:

Congratulations! You are now registered with the New Jersey Division of Revenue.

Use the Taxpayer Identification Number listed above on all correspondence with the Divisions of Revenue and Taxation, as well as with the Department of Labor (if the business is subject to unemployment withholdings). Your tax returns and payments will be filed under this number, and you will be able to access information about your account by referencing it.

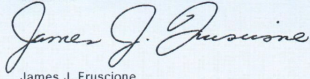
Additionally, please note that State law requires all contractors and subcontractors with Public agencies to provide proof of their registration with the Division of Revenue. The law also amended Section 92 of the Casino Control Act, which deals with the casino service industry.

We have attached a Proof of Registration Certificate for your use. To comply with the law, if you are currently under contract or entering into a contract with a State agency, you must provide a copy of the certificate to the contracting agency.

If you have any questions or require more information, feel free to call our Registration Hotline at (609)292-9292.


I wish you continued success in your business endeavors.

Sincerely,


James J. Fruscione
Director
New Jersey Division of Revenue

STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE

DEPARTMENT OF TREASURY
DIVISION OF REVENUE
PO BOX 355
TRENTON, N.J. 08646-0352

<p>TAXPAYER NAME: ARCHITECTURAL TESTING, INC.</p> <p>ADDRESS: 130 DERRY COURT YORK PA 17406-8405</p> <p>EFFECTIVE DATE: 01/25/02</p>	<p>TRADE NAME:</p> <p>SEQUENCE NUMBER: 0115612</p> <p>ISSUANCE DATE: 11/03/15</p> <p style="text-align: center;"> Director New Jersey Division of Revenue</p>
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FORM-BRC
(04-08) - D205846V

This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address.



A. OMNIA Partners Documents

iv. Description of customer service/problem resolution process, including hours of operation, customer service phone number

All projects will have a local and national primary contact to provide responsive ongoing services. Your national contact is Alan Scott and will work in conjunction with local staff to serve your projects and to resolve any issues that arise. Intertek maintains normal business hours (8am to 5pm, Monday through Friday) and principal consultants emphasize responsiveness to customer inquiries, usually in the same day.

Primary National Contact:



Alan Scott, FAIA, LEED Fellow, LEED AP BD+C, O+M, CEM, WELL AP

Principal Consultant – Protek Services

Direct 971-230-8029

Mobile 503-807-5678

alan.scott@intertek.com

v. Description of invoicing process, including payment terms and methods of payment

Monthly invoices will be issued and are due Net 30 days upon receipt. We accept payments via checks, ACH and wire transfers.

vi. Description of contract implementation/customer transition plan

Intertek does not currently have on-going contracts with school districts and other public sector customers for our facility health consulting, quality assurance and management (Protek) services, so we do not anticipate any customer transitions. Moving forward, we anticipate developing new public sector clients under the agreement with OMNIA.

vii. Description of Intertek’s financial condition

Intertek is financially sound with over a century of stability and growth. We are a publicly traded corporation on the FTSE stock exchange in London, one of the top performers on the FTSE 100, with consistent year-over-year revenue growth since our IPO in 2002. Intertek uses software tools to track and manage projects to maintain profitability while meeting/exceeding client needs and the dynamic demands of projects.

viii. Website link, and description of capabilities and functionality

Clients and interested customers will be served through direct interaction with the national and local contacts, with no online ordering or customer service requests required. Online service functionality is not applicable to our professional services offerings related to this solicitation. Our website link is:



www.intertek.com/protek



A. OMNIA Partners Documents

ix. Description of Intertek safety record

Safety Program

Intertek has a safety program that is documented in our Safety and Health Manual (SHM). A copy of the manual is available upon request and can be obtained from our Safety Department Director, John Thornton, via phone at (630) 426-6578 or by email at john.thornton@intertek.com.

Safety meetings are held for all field employees upon hire and monthly after that. Other, less formal meetings are held as necessary.

Some employees receive 40 hours of OSHA Certified Hazardous Materials Manager training and other safety training as appropriate.



Safety Record

A copy of the company-wide OSHA 300 Log & 300A Summary, as well as safety records, can be obtained from the Intertek Safety Department upon request.

Interstate Experience Modification Rate (EMR)

2019: 0.83
2018: 0.65
2017: 0.72
2016: 0.56
2015: 0.52
2014: 0.54

x. Additional information relevant to this section

We have no additional information for this section.



QUALIFICATION AND EXPERIENCE

i. Brief Intertek history, including year established and corporate office location

Intertek

Year Established: 1885

Corporate Office Location: 901 South Meyers Road, Suite 400, Oakbrook Terrace, Illinois 60181

Brief History: For more than 130 years, organizations around the world have depended on Intertek to help ensure the quality and safety of products, processes and systems.

Intertek is a leading quality solutions provider to industries worldwide. From auditing and inspection, to testing, training, advisory, quality assurance and certification, Intertek adds value for its customers by helping improve the quality and safety of their products, assets and processes. In total, Intertek offers a network of more than 1,000 laboratories and offices with over 42,000 employees in more than 100 countries. In the United States, Intertek maintains offices in 36 states.

Established in 1975, Architectural Testing, Inc. (ATI) is one of the largest building products testing, inspection, certification and consulting companies in North America. In 2013, ATI was acquired by Intertek, thus joining Intertek’s Building and Construction division. At the end of 2015, Intertek acquired Professional Service Industries, Inc. (PSI), a leading engineering and testing firm providing integrated quality assurance services across a range of disciplines within the construction market. Founded in 1961, PSI specializes in construction material,

geotechnical, environmental and property transaction services.



Combining Intertek, ATI and PSI staff members to form the Building Science Solutions (BSS) group leverages complementary services, regional offices and testing labs, as well as a robust engineering and consultancy network to provide a complete and comprehensive solution for our customers. As part of Intertek’s Building and Construction division, Intertek’s Building Science Solutions group is specifically focused on providing specialty assessment, consulting, testing and commissioning services to enhance the health and safety of our buildings and wellbeing of building occupants.

Our diverse team encompasses a wide variety of disciplines and certifications, with team members who have developed a number of industry specifications, test methods, and guidelines, we are recognized leaders in the building industry.

Our staff of professionals consists of the following:

- Professional Engineers (PE/PEng)
- Registered Architects (AIA, RA, NCARB)
- Certified Industrial Hygienists (CIH)
- Certified Energy Managers
- WELL Accredited Professionals
- LEED Accredited Professionals Qualified
- Commissioning Process Providers (QCxP)

Engineering Economics, Inc.

Year Established: 1984

Corporate Office Location: 780 Simms Street, Suite 210 Golden, CO 80401

Brief History: Engineering Economics, Inc. (EEI) is a facility systems consulting firm that specializes in facility assessments, building commissioning, Leadership in Energy and Environmental Design (LEED®), and energy optimization services. In the last 20 years, EEI has worked on nearly 400 K-12 projects with 55 school districts across the United States and has developed a keen understanding of the sensitive nature of educational spaces. EEI provides engineered solutions based on up-to-date guidance and reputable science related to COVID-19. The EEI team assists owners to maximize health and safety to assess and mitigate airborne infections. The strategies EEI incorporates include facility survey assessments, engineering and scope of work development, implementation, and on-going monitoring and verification. The recommendations provided by EEI are in accordance with CDC, OSHA and ASHRAE guidance. As a national firm, EEI can support the Texas team with experts from other regions when specific expertise or additional workforce is needed. This approach offers EEI’s clients the familiarity of a small, local firm combined with the mobilizing power of a considerable, nationwide provider.





ii. Describe Offeror’s reputation in the marketplace

Locally, nationally and internationally, through its highly qualified staff, state-of-the-art labs, and wide array of services, Intertek has established and maintained an industry leading reputation in the market. One indicator of this is our recognition as a leading engineering firm.



Ranked #15 on the 2019 ENR list of Top 500 Design Firms

Intertek is consistently ranked by Engineering News Record magazine as one of the nation’s largest consulting engineering firms in the U.S. and is considered the leading firm of our type in the architectural, engineering and construction (A/E/C) industry. **As of April 2020, Intertek was ranked #15 out of 500 in Top Design Firms.**

iii. Describe Offeror’s reputation of services in the marketplace

Intertek is a trusted brand that promotes a customer-centric culture which allows us to maintain close relationships that result in repeat work from our clients.



At Intertek, our focus is on our clients but don’t take our word for it.

View our client success stories here: <https://www.intertek.com/success-stories/>

View our client testimonials here: <https://www.intertek.com/about/clients/>

One way that we track client satisfaction is through the Net Promoter Score (NPS) customer management program, which is a metric used in customer experience programs. NPS is used by millions of businesses to measure and track how they are perceived by customers.

Intertek’s Net Promoter Score (‘NPS’) Program

We aim to consistently deliver an excellent customer experience and build a trusted relationship. Key to this is regular engagement with our customers. Around the world, through our Net Promoter Score (‘NPS’) program, we carry out 7,000+ customer interviews every single month, helping us to understand our customers and deliver superior service at every Intertek site. Data with meaningful insight drives innovation and that is why we are such avid users of data. We have the ability to access world-class customer intelligence site-by-site from anywhere across our global network.

These insights tell us what our customers need and want, so we are able to provide faster and more effective solutions, which not only have a positive impact on customer satisfaction and loyalty, but help to deliver our services with zero defects. Always measuring the real-time insight we generate from the NPS program is fed back to senior management every day, allowing us to continually measure our performance, drive improvement and deliver our TQA Customer Promise. We capture key metrics at every site monthly and when a project is complete, our TQA experts talk to our customers to hear their views on their experience, the solution itself and the quality of customer service, taking us even further on our path to high quality and disciplined performance management.



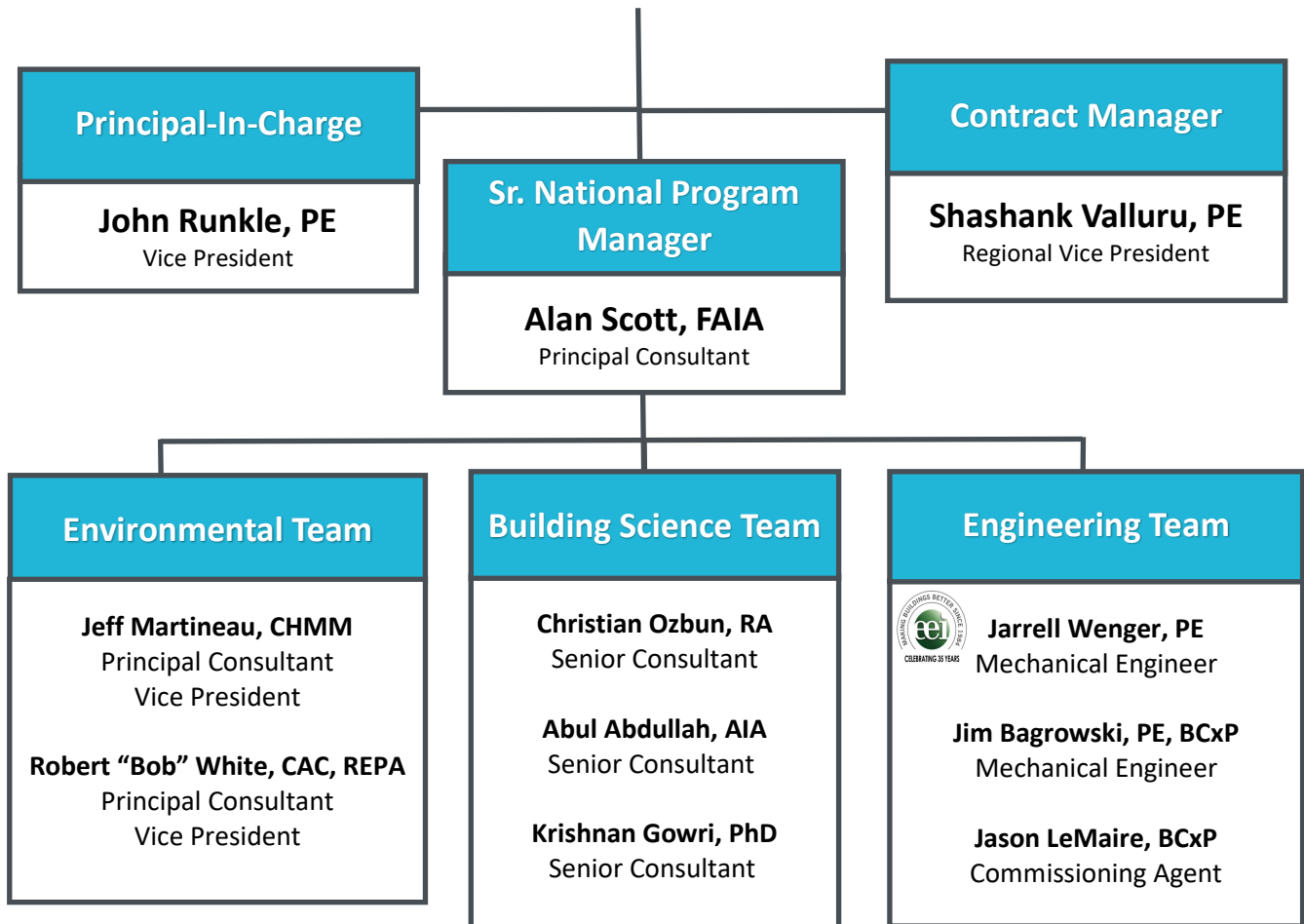
Intertek’s NPS score is consistently above 70 over the last several years. As of October 2020, our score is 78%, which is in the upper quartile of organizations (+72 or higher) and well above the median score of +44*.

*<https://www.surveymonkey.com/curiosity/what-is-a-good-net-promoter-score/#:::text=According%20to%20our%20global%20benchmark,The%20median%20NPS%20is%20%2B44.>



iv. Resumes of key employees (including key subconsultants)

Organizational Chart



Additional National Resources

Intertek has a reputation for quality, strength and value for over 130 years and this commitment continues today. Our quality is a result of providing our clients with qualified personnel in an office near them. What we bring to you is extensive experience providing health and environmental building assessment and consulting, and other building performance, consulting, inspection and testing services across a wide range of building types. And our personnel have the resources and technical support of a national firm with over 2,600 employees in the U.S. to meet OMNIA and Region 4 ESC's contract requirements.



QUALIFICATION AND EXPERIENCE

iv. Resumes of key employees (including key subconsultants)



JOHN RUNKLE, PE

PRINCIPAL-IN-CHARGE/VICE PRESIDENT

STARTED WITH INTERTEK: 2006 | YEARS IN INDUSTRY: 20+

John brings over 20 years of experience as a building enclosure consulting and commissioning consultant. His expertise includes consulting on residential, commercial and industrial facade assemblies throughout the world, including roofing, claddings, fenestrations and below grade waterproofing. John has been integral in the development of the building enclosure commissioning (BECx) practice area. His experience encompasses all aspects of BECx from programming/pre-design, through construction and O&M. His projects have achieved exceptional air leakage results and significant energy performance/savings for owners. John is currently an International Board officer for the Building Commissioning Association (BCxA).

Project Experience

John leads the Building Science Solutions consulting group for Intertek's Building and Construction division. Managerial duties include over 160 staff members in offices throughout North America, the Middle East and China. Consulting Engineering practice areas under John's leadership include building enclosure, fire & life safety, and acoustical consulting.

Featured Building Enclosure Commissioning Projects:

- Confidential Data Centers: Multiple Locations/Multiple Phases
- Philadelphia Airport: Philadelphia, Pennsylvania
- Salt Lake City Terminal Replacement Project: Salt Lake City, Utah
- United Airlines Terminal Redevelopment Project: Los Angeles, California
- Winnipeg International Airport: Winnipeg, Canada
- Barnes Museum: Philadelphia, Pennsylvania
- University of Chicago - New Pavilion Hospital, Chicago, Illinois
- Dartmouth College - Life Science Building: Hanover, New Hampshire
- Banner Estrella Hospital: Phoenix, Arizona
- U.S. District Courthouse: Salt Lake City, Utah
- Utah Data Center: Camp Williams, Utah
- WellStar Paulding Hospital: Hiram, Georgia
- 733 10th and G Street: Washington, DC
- U.S. District Courthouse: Billings, Montana
- University of Pennsylvania - Translational Research: Philadelphia, Pennsylvania

Featured presentations include:

- Abu Dhabi Quality Forum 2014 (Indoor Air Quality and Sustainability)
- ZAK World of Facades 2015, Dubai (Building Enclosure Commissioning)
- Shenzhen Curtain Wall Forum 2015 (Building Enclosure Quality Assurance)
- 3rd Annual Quality Forum, 2015, Key Note Speaker for ASTM (Quality Control)

Education

B.S. Civil Engineering, 1999
Pennsylvania State University

Professional Licensing/Certifications

Professional Engineer
CA (#63900), PA (#PE079829), NV (025812),
SC (ELS.35716), UT (#8269470-2202),
FL (#88078), NC (049582)

Practice Areas

Commissioning	Consulting
Investigations	Peer Reviews
Condition Surveys	Inspections
Fenestrations	Claddings
Waterproofing	Roofing
Healthy building	Energy Analysis
Expert Witness	Engineering

Professional Associations

- Building Commissioning Association (BCA)
 - International & National Capitol Chapter Board Member
 - Former ASTM Liaison for building enclosure commissioning
- American Architectural Manufacturers Association (AAMA)
- Building Environment and Thermal Envelope Council (BETEC)
- AABC Commissioning Group (ACG)
- ASTM International
 - Former Co-Chair for BECx Certification and Accreditation
- Sealant Waterproofing and Restoration Institute (SWRI)
- International Institute of Building Enclosure Consultants (IIBEC)



iv. Resumes of key employees (including key subconsultants)



SHASHANK VALLURU, PE

CONTRACT MANAGER/REGIONAL VICE PRESIDENT

STARTED WITH INTERTEK: 2001 | YEARS IN INDUSTRY: 19

Mr. Valluru has over 17 years of geotechnical engineering consulting, and management experience and currently serves as the Regional Vice President in the PSI's Houston office. His work experience spans several market sectors including institutional (healthcare and educational), government (local, county, state, and transportation), industrial (chemical, food processing petrochemical and paper), and commercial (entertainment and recreation, real estate, retail, and telecommunication). His work includes foundation design for building structures (residential and commercial buildings), industrial facility, power plant, transportation related structures (bridges, roadways), tower structures, earth retaining structures, docks, utility structures, field inspection of shallow foundation and deep foundation construction and instrumented load tests.

Project Experience

Conroe ISD, District-wide addition of 9 Gymnasiums, Conroe, TX
Clear Creek ISD, Clear Creek Intermediate Additions, League City, TX
Houston ISD, Worthing High School, Houston, TX
Houston ISD, Waltrip High School, Houston, TX
Tomball ISD, Various Buildings, Tomball, TX
Houston ISD, Scarborough Elementary, Houston, TX
Houston ISD, Braeburn Elementary, Houston, TX
Houston ISD, Issacs Elementary/Clifton Middle School, Houston, TX
Houston ISD, Cesar Chavez High School, Houston, TX
Houston ISD, Sharpstown International School, Houston, TX
Houston ISD, Isaacs Elementary School, Houston, TX
Victoria ISD, Various Buildings, Victoria, TX
Fort Worth ISD, Various Buildings, Fort Worth, TX
Round Rock ISD, Various Buildings, Round Rock, TX
Frederick E. Giesecke Engineering Research Building, Texas A&M University, College Station, TX
Houston Community College San Jacinto Building Renovations, Central Campus, Houston, TX
University of Houston, Stadium Parking Garage and Plaza Building, Central Campus, Houston, TX
Rice University, Moody Center for the Arts, Houston, TX
MD Anderson Healthcare Buildings, Houston, TX
University of Texas System, Numerous Buildings, Statewide Contract

Education

Master of Science, Civil Engineering,
University of Texas Arlington
Bachelor of Science, Civil Engineering,
Osmania University, India

Certifications

Professional Engineer, #100139, TX
TxDOT Precertification Work Category,
14.1.1 - Soil Exploration
TxDOT Precertification Work Category,
14.2.1 - Geotechnical Testing
TxDOT Precertification Work Category,
14.3.1 - Transportation Foundation
Studies
TxDOT Precertification Work Category,
14.4.1 - Building Foundation Studies

Practice Areas

Geotechnical Engineering
Construction Materials Testing
Special Inspections

Associations

American Society of Civil Engineers (ASCE)
National | Texas Chapters
Geo-Institute of North America



iv. Resumes of key employees (including key subconsultants)



ALAN SCOTT, FAIA, LEED FELLOW, LEED AP, CEM, WELL AP, ECODISTRICTS AP
PRINCIPAL CONSULTANT, SENIOR NATIONAL PROJECT MANAGER
STARTED WITH INTERTEK: 2019 | YEARS IN INDUSTRY: 33

Alan is a registered architect and healthy, sustainable building expert. In his early career as a practicing architect, he helped launch sustainable design practices at several major firms. Since 2000—as the 13th LEED AP—Alan has creatively applied his skills as a facilitator, consultant, project manager, and teacher in support of high-performance, sustainable built environment projects in North and South America. His project work focuses on boosting new and existing building performance, decarbonization, occupant wellness and resilience.

Project Experience

Port of Seattle Sustainable Project Evaluation System, Seattle, WA*

To advance the Port’s Century Agenda goals, developed comprehensive sustainability and wellness standards for capital projects at both airport and seaport facilities.

Warrenton-Hammond School District, Warrenton, OR

Provided building enclosure consulting and inspection services for existing elementary school and high school, and a new middle school.

Oregon Treasury Resilience Building, Salem, OR*

Served as the Treasury’s technical program manager for the programming and design of a new headquarters building, defining and advancing the owner’s sustainability, healthy building and resilience goals for the project.

New York City, School Construction Authority, Green Schools Guide*

To guide project managers, architects, engineers and contractors, managed the development of a comprehensive sustainable, healthy school design and construction standard.

Hotel College, University of Nevada Las Vegas*

To fulfill UNLV’s sustainability and healthy building goals, guided the integration and implementation of LEED requirements and managed the certification of this new state-of-the-art facility.

Learning Innovation Center, Oregon State University, Corvallis, OR* - LEED
consulting and certification management

Education

Bach. Of Architecture, 1987, University of Oregon

Certifications

Registered Architect, Washington (19110902)
Registered Architect, Oregon (3420)
Registered Architect, New York (038088)
Certified Energy Manager (CEM), Association of Energy Engineers
LEED Accredited Professional, BD+C, O+M
WELL Accredited Professional
EcoDistricts Accredited Professional

Practice Areas

Sustainability
High-performance Building
Healthy Building
Resilience
Building Enclosures

Associations

American Institute of Architects
United States Green Building Council

* Project completed with previous firm



QUALIFICATION AND EXPERIENCE

iv. Resumes of key employees (including key subconsultants)



JEFF M. MARTINEAU, CHMM
VICE PRESIDENT- PRINCIPAL CONSULTANT
STARTED WITH INTERTEK: 1993 | YEARS IN INDUSTRY: 31

Mr. Martineau has 31 years of experience in the industry and is responsible for the management of environmental operations in the Eastern US. Throughout his years working in the environmental arena, he has managed various types of projects including the performance and preparation of Phase I/II Environmental Site Assessments (ESAs), Indoor Air Quality (IAQ) evaluations, noise surveys, tank closure assessments, soil and groundwater sampling and analysis plans, contamination assessments, and remedial actions. . Mr. Martineau’s soil and groundwater assessment and remediation experience has included petroleum products, metals, pesticides, solvents, polychlorinated biphenyls (PCBs), and more. Additionally, he has performed asbestos, mold, noise, and general indoor air quality assessments on over 100 projects throughout his career.

Project Experience

Orange County Public Schools, FL

Contract administration, senior technical support for performance of multiple site acquisition and development projects for the schools

Seminole County Public Schools, FL

Provided contract administration, senior technical support for performance of multiple site acquisition and development projects for the schools.

Lake-Sumter Community College, Leesburg, FL

Performed site evaluation and sampling activities during the performance of post construction bake-out procedures

Washington Metropolitan Area Transit Authority (WMATA)

Provided senior technical guidance in the administration of the contract, provided technical support, and directed manpower and equipment requirements to support the performance of Phase II Environmental Site Assessment, supplemental site assessment, and waste disposal activities required prior to the implementation of site reconstruction of a large vehicle and bus maintenance facility in Washington D.C.

New York City Housing Authority (NYCHA)

Provided senior technical guidance in the administration of the contract to provide lead-based paint assessment services to the Prime consultant working for the NYCHA. The project responsibilities include the sourcing of in-house and external candidates to provide manpower and equipment to fully support the needs of the project.

Orlando City Soccer Stadium/City of Orlando, Orlando, FL

Provided senior technical and contract support during the performance of a Phase II ESA on multiple parcels required for the development of the Orlando City Soccer (MLS) stadium

Education

Bach. Of Arts in Environmental Science, 1989, University of New York

Certifications

Certified Hazardous Materials Manager (CHMM) – Masters Level, 2005
Initial 40 Hour Hazardous Waste Site Health and Safety Training, Garaughty Miller, Inc.
OSHA 29 CFR 1910.120 HAZWOPER Annual 8 Hour Hazardous Workers Refreshers
Environmental Professional – Phase I ESA, Intertek
National Institute for Storage Tank Management, FDEP
Ace Loss Prevention & Project Management, Intertek
Assessing Environment Risk in Property Transactions, Enviropact, Inc.
Florida Stormwater, Erosion, & Sedimentation Control Inspector, R.H. Moore & Associates

Practice Areas

Industrial hygiene | Environmental assessment | Indoor air quality | Remediation

Associations

American Institute of Architects
United States Green Building Council



QUALIFICATION AND EXPERIENCE

iv. Resumes of key employees (including key subconsultants)



ROBERT W. WHITE, CAC, REPA
VICE PRESIDENT- PRINCIPAL CONSULTANT
STARTED WITH INTERTEK: 1995 | YEARS IN INDUSTRY: 37

As a Principal Consultant and Regional Vice President of Environmental Services- West, Mr. White is responsible for the financial performance and technical quality of industrial hygiene and environmental services performed by Intertek Operations. Services provided include indoor air quality, asbestos and lead hazard management, moisture and mold restoration, environmental site assessment, geoscience evaluations and remediation. Mr. White is California Certified Asbestos Consultant (CAC) and Registered Environmental Property Assessor (REPA)

Project Experience

San Francisco State University (SFSU): Mr. White has been Principal Consultant for SFSU since 1999. He has managed a variety of projects including asbestos and lead evaluations, asbestos, mold and confined space training, clear & black water loss consultation, indoor environmental quality (IEQ) evaluations, workplace monitoring for electromagnetic fields (EMF), toxicology research, hazardous materials abatement monitoring, and expert litigation support. Intertek developed a campus-wide asbestos Operations and Maintenance (O&M) program and provided asbestos training for maintenance staff. Intertek also performed a review of confined spaces within the campus, developed a confined space program, and provided training to maintenance and EH&S personnel.

Mt. Diablo Unified School District: Mr. White was the manager for project responding to teachers at Woodside Elementary School who expressed concerns regarding several cases of breast cancer and believed that chemicals in and/or around the school may be contributing factors. Intertek was retained to interview staff, evaluate site chemicals, site historical uses, and perform air sampling for select parameters. Intertek also acted on behalf of MDUSD in discussions with local health agencies and the news media. Testing and review of findings with local health agencies did not indicate that the school could have contributed to the identified cases of breast cancer.

Modular School Buildings in Brentwood and San Francisco: Intertek was retained by Modtech Holdings, Inc. to support moisture intrusion issues associated with modular buildings installed in Brentwood and San Francisco. The Brentwood site was a new high school that was constructed using a combination of new and modular buildings. The interior finishes of several of the modular buildings were impacted by rainwater prior to completion of the roofing systems. Intertek’s support was managed by Mr. White and included moisture profiling of the impacted interior finishes, developing a repair punch list, interfacing with State inspectors and documented completion of the restoration efforts.

Education

Bachelor of Science in Safety Management, 1985, Cogswell College
Bach. Of Science in Safety & Fire Protection Engineering Technology, Cogswell College, 1983

Certifications

California Certified Asbestos Consultant, (CAC) #931025, 1993
National Registry of Environmental Professionals (NREP) – Registered Environmental Property Assessor (REPA) #128169
OSHA 29 CFR 1910.120 HAZWOPER Supervisor
NIOSH 582
IAQ/Mold Inspector, PSI

Practice Areas

Industrial hygiene
Environmental assessment
Property assessment
Remediation



iv. Resumes of key employees (including key subconsultants)



ABUL Q. ABDULLAH, AIA, RA, NCARB, LEED AP (BD+C) SENIOR CONSULTANT

STARTED WITH INTERTEK: 2020 | YEARS IN INDUSTRY: 20

Abul is a registered architect whose professional career focused on design, technical, and management roles on Corporate Commercial, Residential, Mixed-Use Development, Retail, Cultural, Civic, Higher Education, K-12 Education, Healthcare, Transit, & Interior Design projects. He is involved in all project phases from conception to completion. Abul works on building design, sustainability, building enclosures, and energy-efficient advanced building technologies. Abul's main expertise lies in bridging architectural design and building technology, with a main emphasis in building enclosures.

Project Experience

University of South Carolina Center for Health and Well-Being, Columbia, SC*

Abul provided building enclosure and architectural design services for this project that received an Honor award for Health and Well-Being from the American Institute of Architects, South Carolina chapter for its vision, creativity and design innovation.

Fayette County Public Schools Frederick Douglass High School, Lexington, KY*

This 280,000-square-foot school accommodates 1,800 students and models sustainability and energy efficiency with natural daylighting, geo-thermal HVAC, and walls using insulating concrete forms (ICF). Abul served as building enclosure and architectural design consultant for this project.

US Coast Guard Headquarters, Washington, DC*

Abul served as the building enclosure and architectural design consultant for this new 1.2 million square-foot headquarters building featuring a brick and glass perimeter and interior facing curtainwall facades that maximize natural light and provide visual connections to the courtyards.

Case Western Reserve University Tinkham Veale University Center, Cleveland, OH*

This facility features a folded plate of green roofs growing out of the site with glazed walls that open views to the outdoors. Abul provided building enclosure consulting and architectural design services for this energy efficient project that includes a ventilated, double-glazed wall that limits heat gains and green roofs that insulate and reduce heat-island effects.

Shanghai Natural History Museum, Shanghai, China*

Abul consulted on the building enclosure and architectural design of this iconic new museum featuring an outer "Cell Wall" solar screen layer and an inner waterproof envelope formed by the glass and aluminum curtain-wall.

Education

Master of Architecture
The Ohio State University
Columbus, Ohio

Bachelor of Architecture
Bangladesh University of Engineering &
Technology, Dhaka, Bangladesh

Professional Licensing/Certifications

Registered Architect: IL, TX, NCARB
LEED Accredited Professional with
specialization in Building Design &
Construction (BD+C)

Practice Areas

Architectural Design Services
Building Enclosure Design Services
Investigations
Inspections

Associations

American Institute of Architects (AIA)
U.S. Green Building Council (USGBC)
International Institute of Building
Enclosure Consultants (IIBEC)
Building Enclosure Council (BEC)
Building Enclosure Technology and
Environment Council (BETEC)
Facade Tectonics Institute (FTI)
Building Envelope Science Institute (BESI)

* Project completed with previous firm



iv. Resumes of key employees (including key subconsultants)



KRISHNAN GOWRI, PH.D, LEED AP, Fellow ASHRAE

SENIOR CONSULTANT

STARTED WITH INTERTEK: 2019 | YEARS IN INDUSTRY: 30

Krishnan is a subject matter expert with more than twenty five years of experience in building science, high performance building design, energy codes, energy modeling and building performance simulation software tools. Krishnan lead the development of COMcheck commercial building code compliance software and served as a consultant to ASHRAE 90.1 Envelope Subcommittee on the infiltration analysis and progress indicators for the 90.1-2013 version of the standard. In his role as product owner at Autodesk, Krishnan was responsible for EnergyPlus integration with Revit and Insight for heating and cooling load calculations and early design analysis. Krishnan also has more than ten years of experience with energy efficiency evaluation of Federal buildings implementing low-cost/no-cost measures. Krishnan is currently Chair of the ASHRAE Building Performance Analysis Conference and an active member of ASHRAE technical and

Project Experience

Music Building, Arizona State University, Phoenix, AZ

Krishnan led the field investigation and analysis of building envelope thermal and moisture performance of this 180,000 sf, eight story building. A building envelope Infrared drone survey, and indoor temperature and relative humidity measurements were done to identify the cause for indoor humidity and moisture intrusion issues. Building mechanical system operation and control strategies were reviewed, and humidity generation models were used to develop and recommend strategies for improving building performance.

M&O Facility, College of Marin, Kentfield, CA

Krishnan led the moisture and condensation analysis of exterior metal building wall systems of this administrative and storage facility at College of Marin. The design team was concerned with the moisture performance of the metal building system that needed additional insulation to meet the energy code requirements. The location of vapor barrier within the assembly and its impact on the overall moisture performance were assessed using vapor diffusion calculation methods and recommendations were made to overcome any potential interstitial condensation.

DHL Building, Miami, FL

This project included the renovation of an existing 160,000 sf warehouse. Krishnan led the energy modeling and code compliance determination to meet the challenges of complying with 2017 Florida energy code requirements which mandated new building performance requirements.

Education

1990 Ph.D., Concordia University, Centre for Building Studies, Montreal, Quebec
1984 M.Eng., Concordia University, Centre for Building Studies, Montreal, Quebec
1982 B.E., Annamalai University, Annamalai Nagar, India

Patent

2006 Decision Support for Operation and Maintenance (DSOM) System
U.S. Patent No. 7,016,742 B2, Co-inventor

Certifications

LEED Accredited Professional

Practice Areas

Energy auditing | Energy modeling
Energy code compliance | Building enclosure design | Building enclosure commissioning | Property condition assessment

Associations

1994 - Member (Fellow since 2016), American Society of Heating and Refrigeration Engineers
2014 - Member, IBPSA; Board Member (2016-2018), IBPSA-USA
2001 LEED Accredited Professional, US Green Building Council



iv. Resumes of key employees (including key subconsultants)



SRI KRISHNAPRASAD, PE

SENIOR CONSULTANT

STARTED WITH INTERTEK: 1994 | YEARS IN INDUSTRY: 27

Mr. Krishnaprasad has over 25 years of experience in the technical and administrative management of property assessment projects (facilities), including all aspects of project management, client service, and personnel management. He has performed or managed and coordinated Existing Condition Surveys, Contract Document Reviews and Monitoring Services (Draw Reviews), Property Condition Assessments, ADA Accessibility Guideline Assessments, Spill Prevention Control & Countermeasure (SPCC) Plans, Phase I ESAs, and Asbestos Surveys/Project Designs for a wide range of private/public clients. As a Principal Consultant for the Building Science Solutions group, the following project experience is identified.

Project Experience

Property Condition Assessment Project

Experience – Shopping Centers, Strip Malls and Manufacturing/Distribution Facilities

Gateway Plaza. Southlake, TX. 9 buildings, +/- 370,091 SF over 41 acres
Edgemere Market Place, El Paso, TX - +/- 20,600 SF over 3 Acres
The Outlet Shoppes at El Paso, Canutillo, TX - +/-380,000 SF over 37 Acres
JC Penney Distribution Center, Cedar Hill, TX - +/-420,600 on over 35 Acres
Riverside Distribution Center, Phoenix, AZ - +/-503,244 SF on over 28 Acres

Property Condition Assessment Project Experience – Low, Mid and High-Rise Buildings

Broadstone Uptown Lofts, Houston, TX – Six 4-story apartment buildings, +/-220,448 SF
1010 Lamar Office Building, Houston, TX – 20-story office building, +/-260,465 SF
KBR Tower, Houston, TX – One 40-story office building, +/-1,047,700 SF

Property Condition Assessment Project Experience – Commercial Business Parks, Golf Courses, Marinas, Hospitality and Apartment Complexes

Williamsburg Apartments, Shreveport, LA – 27 Apartment Buildings over 5 Acres
Cowboys Golf Club, Grapevine, TX – 72 Par, 7,017 Yards, +/-25,600 SF | 159 Acres
Ballena Isle Marina, Alameda, CA – 504 Boat Slips, 11 Buildings, 72,700 SF | 61 Acres

Property Condition Assessment Project Experience – PCAs with Enhanced Services (Wall/Roof/MEP/Vertical Transportation/ADA/FHA)

The Lyndon, San Marcos, TX, Student Housing, - +/-215,907 Rentable SF, 5 Stories, 233 Units
Berkeleyan, Berkeley, CA , Student Housing,- +/-35,832 Rentable SF, 5 Stories, 56 Units
Arlington Center 2-story office building, Arlington, TX, +/-182,551 SF, over 20 Acres

Education

Bachelor of Science, Civil Engineering, 1998, University of Texas- El Paso

Certifications

Texas Professional Engineer #95753
Intertek Principal Consultant for Asbestos Surveys/Monitoring and Asbestos Design/O&M
Intertek Principal Consultant for Property Condition Assessments

Practice Areas

Property condition assessment
Environmental assessment
ADA assessment



iv. Resumes of key employees (including key subconsultants)



CHRISTIAN OZBUN, RA
SENIOR CONSULTANT

STARTED WITH INTERTEK: 2017 | YEARS IN INDUSTRY: 12

Christian currently leads heads up Intertek’s Greater Houston Area building science practice. Christian specializes in designing and detailing complex building enclosure interfaces that take into account constructability, cost, and long-term performance. He has provided third party review and consulting on over 100 projects and has directly managed dozens of large projects. His experience with building envelope includes forensics, new construction, and retrofits. Prior to Intertek, Christian led a team of designers and inspectors providing building enclosure consulting and commissioning on large institutional and higher education projects across Texas.

Project Experience

The University of Texas Engineering Education Research Center — Austin, TX

Building Envelope Commissioning and Lead Team
429,000 square foot new construction, nine story structure consisting of unitized curtainwall systems, a custom structural skylight system, internal gutters, SBS modified bitumen roofing, limestone cladding, connector bridges, and hot applied waterproofing. Construction of a Virtual Building Envelope BIM model. This model created a 3D composite shop drawing. It became the building the building envelope contract documents. Performed review of construction documents and site visits.

University of Texas Medical Branch Angleton Danbury Campus — Angleton, TX

Roof Replacement Construction Documents
180,000 square foot roof replacement. The existing PVC membrane roof was damaged by a hail storm. Due to limited funding Mr. Ozburn designed a mechanically fastened PVC roof recover. The PVC roof recover had to meet stringent coastal TDI wind uplift requirements. Performed Forensic Investigation, Cost Estimating, Roof Design, Construction Observation.

Regional MD Anderson Cancer Center of The Woodlands Texas

Building Envelope Construction Documents
195,000 square foot new construction regional cancer center. The building enclosure consisted of custom-shaped precast concrete panels, curtainwall systems, TPO roofing, and stucco cladding. Performed Building Envelope Design, Roof Design, Specification Review, and design review.

Roof consulting for various Houston ISD and Clear Creek ISD Schools - Houston, TX

Roof Design Review, Construction Administration, and Inspections
Westbury High School
Lawson Middle School
Scarborough High School
Hall Elementary School (BE and Windstorm)
Creekside Intermediate School (BE and Windstorm)

Education

B.S. in Architecture
The University of Houston, 2011

Certifications

Registered Architect #25766, Texas 2016
NCARB Certificate #85081
AIA Member #38713786

Practice Areas

Commissioning Consulting
Investigations Peer Reviews
Condition Surveys Inspections
Fenestrations Claddings
Waterproofing Roofing Design
Infrared Thermography
Contract Documents
Forensic Investigations
Hygrothermal and Energy Modeling
Repair Documents

Associations

International Institute of Building
Enclosure Consultants (IIBEC)

International Building Performance
Simulation Association (IBPSA)



iv. Resumes of key employees (including key subconsultants)



Jarrell Wenger PE, LEED AP
Principal | Central Engineering Group Lead

QUALIFICATIONS

Jarrell leads EEI’s Central Engineering Group (CEG), an in-house engineering institution that provides specialty engineering services, including design reviews and technical assistance with particular MEP systems. He is a recognized expert on Indoor Air Quality (IAQ) and diagnostics as well as energy efficiency analyses, economic performance comparisons of HVAC, and central plant alternatives. Jarrell applies this to developing solutions to complicated and costly building problems such as COVID preparedness for EEI’s clients.

Idaho State Veterans Home | COVID Peer Review

Principal-in-Charge | Post Falls, ID

Scope: Performed peer review of the new Veterans home design to ensure readiness for COVID. Recommendations included system enhancements for increased ventilation with outside air, improved filtration efficiency, flexibility to create negative or positive pressure in resident rooms, installation of infrastructure for ultraviolet germicidal irradiation equipment, increased application of automatic lighting controls and touchless plumbing fixtures, and addition of in-room portable HEPA filtration units.

Univ. of Houston | Recreation & Wellness Center

Principal-in-Charge | Houston, TX

Scope: MEP systems design-through-warranty commissioning. The design of the facilities nurtures a holistic student experience, improving both mental and physical health.

Roaring Fork School District | Crystal River Elementary School

Principal-in-Charge | Glenwood Springs, CO

Scope: Re-commissioning services for a 76,500 SF K-12 facility that had comfort and excessive energy consumption issues. Installed systems included a rooftop VAV with displacement air distribution, a variable flow chilled water system with ice storage, and a complete DDC building automation system. EEI uncovered several issues which, once resolved, resulted in substantial operational savings.

EDUCATION

M.S. Mechanical Engineering
Colorado State University

B.S. Mechanical Engineering
Queen’s University

REGISTRATIONS

Professional Engineer
California North Dakota
Colorado Oklahoma
Georgia South Dakota
Hawaii Texas
Kentucky Utah
Michigan Wyoming

EXPERIENCE

Industry 36 Years
EEI Tenure 23 Years

CERTIFICATIONS

LEED Accredited Professional
U.S. Green Building Council

AFFILIATIONS

American Council of Engineering Companies

American Society of Heating, Refrigeration and Air Conditioning Engineers

Building Commissioning Association

National Council of Examiners for Engineering and Surveying





iv. Resumes of key employees (including key subconsultants)



Jason LeMaire BCxP
Senior Project Engineer

QUALIFICATIONS

Based out of Houston, Texas, Jason LeMaire is a senior engineer with almost three decades of mechanical, electrical, and plumbing field experience. He possesses a vast knowledge of various types of HVAC systems, direct digital controls, and pneumatic controls. Much of Jason’s career has been spent out in the field, specializing in TAB and HVAC installation and services. Before joining EEI, Jason worked as a Mechanical Project Engineer designing and drafting HVAC systems, managing projects, and proposals, and providing cost estimates. Today, he contributes his extensive field experience and system knowledge to his project teams.

EDUCATION

Mechanical Engineering Studies
University of Colorado-Denver

Mechanical Engineering Studies
University of Texas at Arlington

Undergraduate Studies, Commerce
Texas A&M University

CERTIFICATIONS

Building Commissioning Professional
*American Society of Heating,
Refrigeration & Air Conditioning
Engineers*

EXPERIENCE

Industry 28 Years
EEI Tenure 10 Years

AFFILIATIONS

American Society of Heating,
Refrigeration and Air Conditioning
Engineers

University of Houston Katy | Academic Building

Technician | Houston, TX

Scope: Commissioning services for a \$33,000,000, 80,000 SF, three-story academic building constructed on the UH Katy campus. The multi-functional building has spaces for UH Victoria, UH Nursing, and UH Engineering. EEI’s scope included the mechanical, plumbing, and electrical systems.

University Health System | Clinical Services Building

Project Engineer | San Antonio, TX

Scope: EEI provided commissioning services for the Robert B. Green (RBG) Campus 269,500 SF Clinical Services Building and Milagros Building remodel which were part of a large capital improvement project. The Clinical Services Building is LEED® Gold certified. The commissioning requirements of this project exceed the requirements of LEED® Energy and Atmosphere Prerequisite 1, Fundamental Commissioning and LEED Energy and Atmosphere Credit 3, Enhanced Commissioning.

Jefferson County Public Schools | District-Wide Mechanical Upgrades

Project Engineer | Jefferson County, CO

Scope: Independent 3rd party commissioning services for mechanical upgrades at 20 K-12 schools. EEI’s services included design and submittal reviews, construction observations, witnessing equipment startup, functional testing, issues tracking, seasonal checks, warranty reviews, and final reports.





iv. Resumes of key employees (including key subconsultants)



Jim Bagrowski PE, BCxP, LEED AP
Senior Project Manager

QUALIFICATIONS

As a Project Manager and Engineer, Jim Bagrowski is a staunch advocate for facilities management staff, believing that their thorough understanding and input into their building’s systems are critical to achieving owners’ long-term facility goals. Jim understands the value of clients’ time, so he works to simplify the commissioning process for all parties involved. He has over 25 years of experience in engineering and commissioning and is an expert in a variety of control, mechanical, and electrical systems, as well as complex HVAC systems and renewable energy. He has been integral in helping the EEI Central Engineering Group to create and roll out strategies to mitigate risk and prevent increased infections during the COVID-19 pandemic.

EDUCATION

M.S. Mechanical Engineering
University of Illinois at Chicago

B.S. Mechanical Engineering
University of Illinois at Chicago

REGISTRATIONS

Professional Engineer
Colorado
Illinois
Wyoming

EXPERIENCE

Industry 29 Years
EEI Tenure 16 Years

CERTIFICATIONS

Building Commissioning Professional
*American Society of Heating,
Refrigeration & Air Conditioning
Engineers*

LEED Accredited Professional
U.S. Green Building Council

AFFILIATIONS

National Council of Examiners for
Engineering and Surveying

Television Station KTCS-9 | COVID Facility Assessment

Project Manager | Seattle, WA

Scope: EEI offered a comparative assessment for HVAC strategies, including a cost/benefit analysis for air treatment solutions for an essential service facility during the COVID-19 pandemic. The options included upgrading filtration with increased ventilation, ultraviolet germicidal irradiation (UVGI) lamps, and ionization air treatment technologies.

Intertek Office Facility | COVID Facility Assessment

Project Manager | Kennesaw, GA

Scope: EEI provided facility health assessment services and recommended HVAC air treatment solutions for large office areas served by multiple rooftop HVAC units during the COVID-19 pandemic. Considering climatic factors, the recommendations included installing in-duct UVGI treatment along with deploying in-room filtration with HEPA filters.

Jefferson County Public Schools | District-Wide System Upgrades

Project Manager | Jefferson County, CO

Scope: District-wide mechanical system upgrades project serving eight schools including rooftop AHUs with evaporative cooling, relief fans, boilers, pumps, cabinet unit heaters, existing exhaust fans, condensing boilers, exiting pumps, and cabinet unit heaters.





v. Provide and describe relevant professional licenses (Texas and other applicable states), certifications, training, and other applicable information, including key subconsultants

Our staff of registered architects and licensed professional engineers encompasses a wide variety of disciplines and licenses including but not limited to AIA, NCARB, LEED AP, QCCP, Passive House Consultants, Certified Energy Managers, AAMA Fenestration Masters, Registered Roof Consultants and Registered Roof Observers. With team members who have developed a number of industry specifications, test methods, and guidelines, we are recognized leaders in the building industry. Our clients include owners, contractors, attorneys, architects, consultants, manufacturers, developers, and property managers. We have provided Building Enclosure Consulting and Commissioning services on hundreds of projects for all delivery types and market sectors including schools, universities, healthcare facilities, government buildings, multi-family residential, hotels, museums, churches, data centers, natatoriums, sports and entertainment complexes and multi-use structures.

Intertek's international accreditations include ISO 17025, ISO 17020 and ISO 17065 as well as AAMA, IAS, IGCC, NAMI, NFRC, SGCC, SWR and WDMA. In addition, Intertek BSS staff members have extensive industry involvement, including board and leadership positions in many industry associations including American Institute of Architects (AIA), ASTM International, American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE), Building Commissioning Association (BCA), Building Enclosure Council (BEC), Glass Association of North America (GANA), Air Barrier Association of America (ABAA), International Institute of Building Enclosure Consultants (IIBEC) formerly RCI, Single Ply Roofing Industry (SPRI), National Fire Protection Association (NFPA), and U.S. Green Building Council (USGBC).

Principal Lines of Business in Texas

Intertek-PSI is legally licensed to conduct business in the State of Texas for environmental consulting, geotechnical engineering and testing services, construction materials testing and inspections, industrial hygiene, facilities and roof consulting, and assurance testing services.

Intertek-PSI provides Phase I/II/III Environmental Site Assessments (ESAs), Industrial Hygiene Studies and Quality Services to both the Public and Private sectors of the community including: asbestos/lead-based paint surveys, abatement design and monitoring, mold surveys, investigations, remediation design, specifications and prevention plans, indoor air quality remediation planning, permitting assistance and contractor procurement assistance.

Intertek-ATI Building Science Solutions is specifically focused on providing specialty consulting and commissioning services on new construction and retrofit building projects. Our team includes experts in fenestrations, curtain wall, roofing, waterproofing, stone, masonry, stucco, EIFS, glass and glazing, sealants, air leakage performance evaluation, CAD, REVIT, BIM and thermal and hygrothermal analysis. The Building Science Solutions group is a diverse group of engineers and architects who believe in communicating effectively with your project team and providing the information and services necessary to achieve the strategic goals for each project.

We have extensive experience in evaluating building enclosures and mitigating risks associated with existing underperforming enclosure components and assemblies. Through this experience, we have gained an understanding of building failure modes, and correspondingly, how to mitigate the risks of failures.





QUALIFICATION AND EXPERIENCE

v. Provide and describe relevant professional licenses (Texas and other applicable states), certifications, training, and other applicable information, including key subconsultants

PROFESSIONAL ENGINEERING

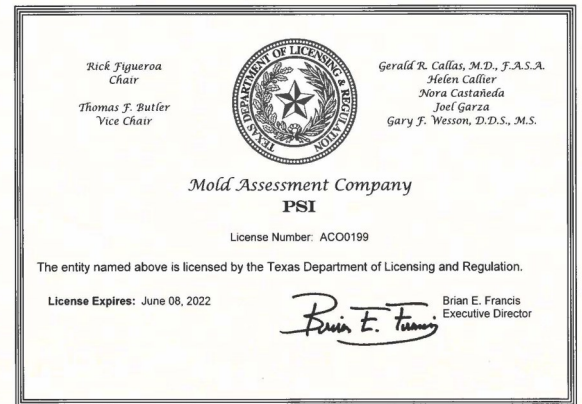
Intertek-PSI is a registered Professional Engineer and Land Surveyor firm in the State of Texas under registration number F-3307 (Expiration 01/31/2021).



EEL is registered Professional Engineering firm in the State of Texas under registration number F-6447

MOLD CERTIFICATION

Intertek-PSI is a licensed Mold Assessment Company registered in the State of Texas under license Number ACO019 (Expiration 06/02/2022) by the Texas Department of Licensing and Regulation.

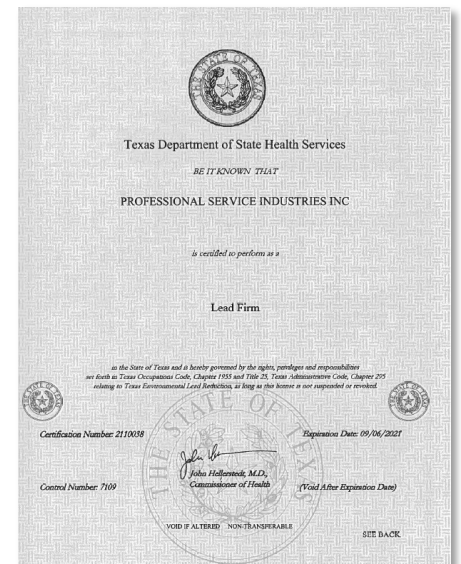
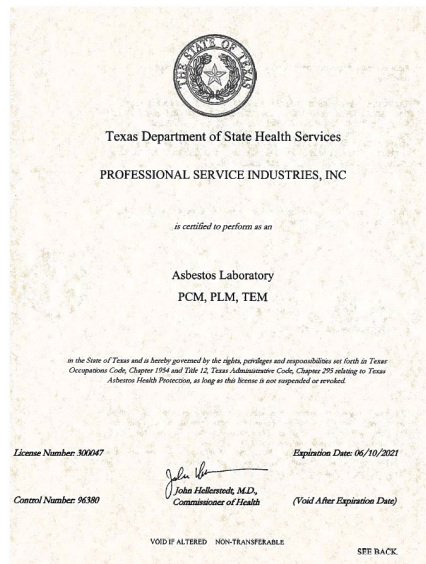
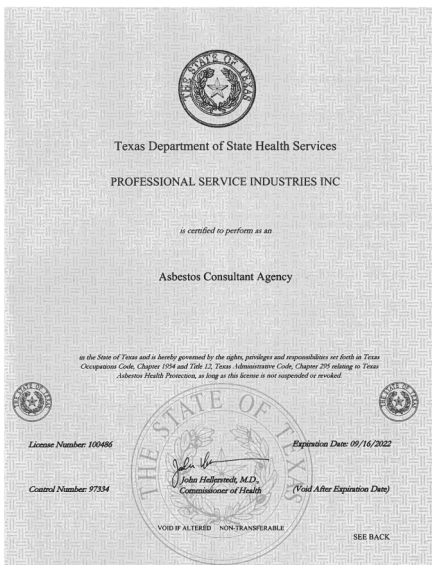


LEAD CERTIFICATION

Intertek-PSI is a licensed Lead Firm registered in the State of Texas under license Number 2110038 (Expiration 09/06/2021).

ASBESTOS CERTIFICATION

Intertek-PSI is a licensed Asbestos Consultant Agency registered in the State of Texas under license Number 100486 (Expiration 09/16/2022).





QUALIFICATION AND EXPERIENCE

v. Provide and describe relevant professional licenses (Texas and other applicable states), certifications, training, and other applicable information, including key subconsultants

Team Members Professional Licenses and Certifications:

**John Runkle– Vice President/
Principal-in-Charge**

Professional Engineer: CA (#63900), PA (#PE079829), NV (025812), SC (ELS.35716), UT (#8269470-2202), FL (#88078), NC (049582)

**Shashank Valluru– Regional Vice
President/Contract Manager**

Professional Engineer, #100139, TX
TxDOT Precertification Work Category, 14.1.1 - Soil Exploration
TxDOT Precertification Work Category, 14.2.1 - Geotechnical Testing
TxDOT Precertification Work Category, 14.3.1 - Transportation Foundation Studies
TxDOT Precertification Work Category, 14.4.1 - Building Foundation Studies

**Alan Scott– Principal Consultant/
Senior National Project Manager**

Registered Architect, Washington (19110902)
Registered Architect, Oregon (3420)
Registered Architect, New York (038088)
Certified Energy Manager (CEM), Association of Energy Engineers
LEED Accredited Professional, BD+C, O+M
WELL Accredited Professional
EcoDistricts Accredited Professional

**Jeffrey Martineau– Vice President/
Principal Consultant**

Certified Hazardous Materials Manager (CHMM) – Masters Level, 2005
Initial 40 Hour Hazardous Waste Site Health and Safety Training, Garaughty Miller, Inc.
OSHA 29 CFR 1910.120 HAZWOPER

Annual 8 Hour Hazardous Workers Refreshers
Environmental Professional – Phase I ESA, Intertek
National Institute for Storage Tank Management, FDEP
Ace Loss Prevention & Project Management, Intertek
Assessing Environment Risk in Property Transactions, Enviropact, Inc.
Florida Stormwater, Erosion, & Sedimentation Control Inspector, R.H. Moore & Associates

**Robert White– Vice President/
Principal Consultant**

California Certified Asbestos Consultant, (CAC) #931025, 1993
National Registry of Environmental Professionals (NREP) – Registered Environmental Property Assessor (REPA) #128169
OSHA 29 CFR 1910.120 HAZWOPER Supervisor
NIOSH 582
IAQ/Mold Inspector, PSI

Christian Ozburn– Senior Consultant

Registered Architect #25766, Texas 2016
NCARB Certificate #85081
AIA Member #38713786

Abul Abdullah– Senior Consultant

Registered Architect: IL, TX, NCARB
LEED Accredited Professional with specialization in Building Design & Construction (BD+C)

Krishnan Gowri– Senior Consultant

LEED Accredited Professional

**Sri Krishnaprasad– Senior
Consultant**

Texas Professional Engineer #95753
Intertek Principal Consultant for Asbestos Surveys/Monitoring and Asbestos Design/O&M
Intertek Principal Consultant for Property Condition Assessments



**Jarrell Wenger– Mechanical
Engineer**

Professional Engineer: TX, CA, CO, GA, HI, KY, MI, ND, OK, SD, UT, WY
LEED Accredited Professional

Jim Bagrowski– Mechanical Engineer

Building Commissioning Professional
American Society of Heating Refrigeration and Air Conditioning Engineers
LEED Accredited Professional

**Jason LeMaire– Commissioning
Agent**

Building Commissioning Professional
American Society of Heating Refrigeration and Air Conditioning Engineers



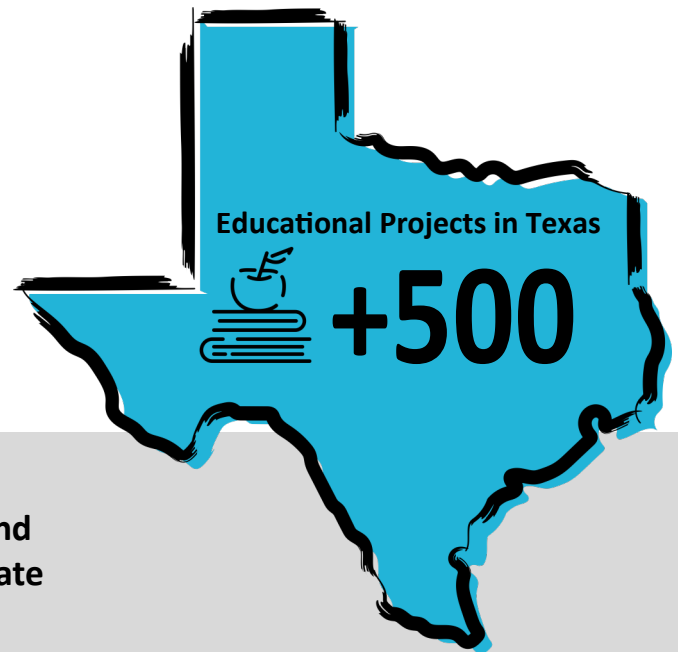
vi. Describe government sector work experience

Intertek has a long history of serving government sector clients, including school districts, municipal and state governments, and facilities for federal agencies. Consulting, inspection and testing services for these government sector projects include building enclosures, environmental consulting, industrial hygiene, asbestos and lead abatement, indoor environmental quality, and other energy, wellness and sustainability related services. This work includes school projects from Alaska, to Texas to Florida.

K-12 Education Projects: Intertek has performed over **2,760** school projects in 28 states, and over 300 of those were in the State of Texas.

Higher Education Projects: Intertek has performed over **1,950** college projects in 24 states, and over 200 of those were in the State of Texas.

Government Sector Projects: PSI has performed work for thousands of state, local and national governmental agencies throughout the U.S.



Intertek has performed over **4,710** educational projects in over 30 states, and over 500 of those were located in the State of Texas.



QUALIFICATION AND EXPERIENCE

REPRESENTATIVE EDUCATION AND GOVERNMENT AGENCY CLIENTS	
American University; DC	Research Center, Austin, TX
Arizona State University; AZ	University of Texas Medical Branch Angleton Danbury Campus
Carnegie Mellon University; PA	Houston Independent School District, Houston, TX
Clarion University of Pennsylvania; PA	Clear Creek Independent School District, Houston, TX
Cornish College, Student Housing; WA	Texas State University, San Marcos, TX
Cuyahoga Community College; OH	Texas A&M University, College Station, TX
Dormitory Authority, State of New York	Regional MD Anderson Cancer Center of The Woodlands, TX
Franciscan University; OH	Southwest Research Center, San Antonio, TX
George Mason University; VA	The University of Houston, Houston, TX
Jefferson Community College; OH	Conroe Independent School District, Montgomery County, TX
Kent State University; Ohio	Humble Independent School District, Humble, TX
Northeastern Junior College; CO	Fort Bend Independent School District, Sugar Land, TX
Northern Virginia Community College; VA	Lamar University, Beaumont, TX
Pennsylvania State University, Multiple Facilities	Warrenton-Hammond School District, Warrenton, OR
Point Park University; PA	Orange County Public Schools, Multiple Sites, FL
Robert Morris University; PA	Seminole County Public Schools, Multiple Sites, FL
San Diego State University, CA	Lake-Sumter Community College, Leesburg, FL
Seton Hill University; PA	Washington Metropolitan Area Transit Authority (WMATA)
Slippery Rock University; PA	New York City Housing Authority (NYCHA)
University of California, Multiple Facilities	Orlando City Soccer Stadium/City of Orlando, FL
University of Illinois; IL	San Francisco State University (SFSU), CA
University of Kansas; KS	Mt. Diablo Unified School District, Brentwood & San Francisco, CA
University of Michigan, MI	City of Houston (TX)
University of Missouri, MO	City of San Antonio (TX)
University of Pittsburgh, Multiple Facilities	City of Austin (TX)
University of San Diego, CA	City of Fresno, Fresno Air Terminal, Fresno, CA County
University of South Florida, FL	Harris County (TX)
University of Washington, WA	Fort Bend County (TX)
Virginia Community College System	Brazoria County (TX)
Washington and Jefferson College; PA	University of Texas MD Anderson, Houston, TX
Wayne State University; MI	U.S. Army Corps of Engineers
West Virginia University; Morgantown, WV	Veterans Administration
Western Michigan University; MI	City of Dallas (TX)



vii. Describe past litigation, bankruptcy, reorganization, state investigations of entity or current officers and directors.

Intertek, from time to time, has been involved in legal or administrative proceedings as a plaintiff or defendant. With annual fees exceeding \$300 million, we don't maintain a comprehensive historical listing of claims. With assets exceeding \$120 million, no claims, individually or collectively, could adversely affect your projects.

Bankruptcy

Intertek is multi-million dollar international corporation with over 130 years of experience providing services to clients world-wide. There have no bankruptcies recorded for our firm in the last 10 years.

Pending Claims or Lawsuits

There are currently no claims or lawsuits pending between Intertek and any educational clients.



QUALIFICATION AND EXPERIENCE

viii. At least five (5) customers references related to services in RFQ (Entity name, contact name and title, contact phone and email, city, state, years services, and description of services

Canutillo Independent School District

Bruno Vasquez, AIA
Executive Director of Facilities & Transportation
7965 Artcraft
El Paso, TX 79932
Email: brvasquez@canutillo-isd.org
(915) 877-7712
Years of Service: 4
Description of Services: Disinfection Process Management, People Assurance eLearning, IAQ/Mold, Geotechnical Engineering, Construction Materials Testing

California State University Maritime Academy

Mark Goodrich, CPM
Interim Associate Vice President, Enterprise Services
200 Maritime Academy Drive
Vallejo, CA 94590
mgoodrich@csum.edu
(707) 654-1563
Years of Service: 20
Description of Services: Disinfection Process Management, IAQ/Mold, Asbestos, Property Assessments

The University of Utah

Sarah Boll
State of Utah Division of Facilities Construction and Management– Assistant Director
4315 South 2700 West, Floor 3
Salt Lake City, UT 84129
sboll@utah.gov
(801) 386-4257
Years of Service: 2
Description of Services: Testing, Inspections and Building Envelope Commissioning

Cornell University

Gary Wilhelm
Owner/Project Director
125 Humphreys Service Building
Ithaca, NY 14853
gnw1@cornell.edu
(607) 254-8022
Years of Service: 2
Description of Services: Building Envelope Commissioning

Oregon State Treasury*

Dan McNally
Business Services Manager
Dan.McNally@ost.state.or.us
350 Winter Street NE, Suite 100
Salem, OR 97301
(503) 373-1028
Years of Service: 1
Description of Services: Comprehensive Sustainability and Wellness Standards

Port of Seattle*

Leslie Stanton
Senior Manager, Environmental Strategy and Sustainability
P.O. Box 68727
Seattle, WA 98168
Stanton.L@portseattle.org
(206) 787-4147
Years of Service: 2
Description of Services: Comprehensive Sustainability and Wellness Standards

Ryan Companies US, Inc.

Xavier Ross
Assistant Superintendent
14241 Dallas Parkway, Suite 225
Dallas, TX 75254
xavier.ross@ryancompanies.com

(214) 557-8718
Years of Service: 2
Description of Services: Building Enclosure Consulting, Construction Materials Testing

Clear Creek ISD

Lindsey Davis
Project Manager
CCISD – Facilities and Planning
2145 W. NASA Blvd
Webster, TX 77598
lidavis@ccisd.net
(281) 284-0066
Years of Service: 1.5
Description of Services: Building Enclosure Consulting

Alex Aragon

Project Manager
CCISD – Facilities and Planning
2145 W. NASA Blvd
Webster, TX 77598
aaragon@ccisd.net
(281) 284-0041
Years of Service: 1.5
Description of Services: Building Enclosure Consulting

The Whiting-Turner Contracting Company

Mark E. Williams
Project Manager
17115 San Pedro Avenue, Suite 120
San Antonio, Texas 78232
(210) 558-1880
Years of Service: 3
Description of Services: Building Enclosure Consulting

*Reference for Alan Scott for work completed with previous firm



ix. Any additional information relevant to this section

M/WBE / HUB Participation

Intertek is committed to working with both SBE (Small Business-Owned Enterprise) and MWBE (Minority and Women Owned Business Enterprise) companies, and we have an outstanding track record in involving these firms in a wide range of public projects. We have working relationships with minority, women and disadvantaged businesses throughout the United States and we attempt to team with these businesses whenever able including firms such as TLC Engineering, Inc., A&B Environmental Services, Inc., Xenco Labs, Halloway Environmental + Communications, and GreeNexus Consulting in Houston, Texas area.



We aim to have an overall firm **participation goal of at least 15-20%** on our public projects, and we strive to meet higher goals on specific projects.



i. Provide any additional information related to products and services

Additional Service Areas

Intertek is a multi-disciplinary company with a broad and diverse array of services and professional expertise. In addition to the core services sought under this RFQ, we are able to range of other complimentary and independent services that customers and their projects might require. Some of these services include:

- Property condition assessments
- Environmental assessment and testing
- Energy auditing
- Sustainability assessment
- Building enclosure investigation
- Building enclosure consulting and testing

See **Tab 2** for additional details on some of these services.



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Thought Leadership Examples

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Create Healthier Indoor Environments



Practical Approaches to Reduce Risks

22 September 2020

From employment to education to entertainment, when people enter a place, they want peace of mind that it is safe and sanitary. This is especially true in a COVID-19 and post-COVID world. The key elements to general health and wellness in buildings include air quality, water quality, thermal comfort, physical space, acoustics, and comfort. Now, as people begin to return to schools, workplaces, and public spaces, it is important to strike a balance between these elements in a way that allows for better infection control. Doing so will allow us to more safely re-occupy our spaces.

A safe restart is possible, provided it is based on established health research and new knowledge of pathogen transmission, including SARS-CoV-2 and similar viruses. Also important are general observations of COVID and similar illnesses and the guidelines and recommended practices from expert individuals and organizations. These can be used together to come up with a strategic plan for reoccupation.

For facilities that have been unoccupied for an extended period, there are several key considerations for successful restarts: air quality, water quality and moisture issues that may have developed during the shutdown. Addressing these items, is a critical first step in safe reopening. Beyond this,

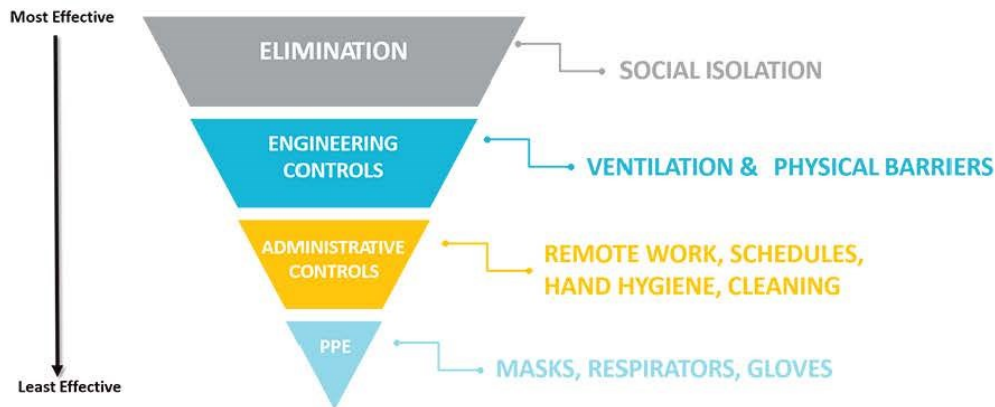




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thoughtful consideration of the hierarchy of control strategies for COVID-19 is necessary to balance necessary risk reductions with operational practicalities.



Social isolation is highly effective at reducing transmission risks but is not compatible with many societal functions, while personal protective equipment (PPE) is helpful but not a complete solution. A combination of measures is key to returning to work, school and other activities while limiting the spread of the virus. Risks related to illness like COVID-19 can be mitigated through engineering controls like air contaminant removals, ideally targeting 99 percent contaminant removal in a limited time period, while maintaining energy efficiency. This can be accomplished through a combination of dilution ventilation, sanitization (e.g. ultraviolet light), and enhanced filtration. The optimal solution for any given facility could include, one, two or all three of these strategies.

Additional engineering controls include the use of touchless controls (e.g. restroom fixtures and door openers), physical barriers and changes to space usage to create distancing between people. Administrative controls also play an important role and include actions such as response planning, education, and scheduling. Education should include topics like mask/glove use, hand hygiene, respiratory etiquette, health screening, and mechanisms of disease transmission, and training programs should incorporate regular message reinforcement (via signs and reminders). Training for housekeeping staff should cover effective high-touch surface sanitizing protocols, green cleaning practices and safe chemical handling and storage.

Safe re-occupancy is not the only concern. The industry must also consider how we design and manage spaces in the future. This will include creative consideration of space usage, flexible scheduling, improved ventilation system design, touchless technologies and new finishes. Whether now or in the future, it is important to understand the real risks associated with occupying shared spaces and engage a team of experts to help implement effective short- and long-term solutions. Get more insights by downloading our webinar recording (<https://www.intertek.com/knowledge-education/webinars/building/reduce-risks-and-create-healthier-indoor-environments/>).





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Alan Scott,
Principal Consultant

Alan is a registered architect and sustainability expert with over 30 years of experience and a lifelong commitment to sustainability. In his early career as a practicing architect, he helped launch sustainable design practices at several major firms. Since 2000—as the 13th LEED AP—Alan has creatively applied his skills as a facilitator, consultant, project director, and teacher in support of high-performance, sustainable built environment projects across the globe. His project work focuses on boosting new and existing building performance, decarbonization, occupant wellness and resilience.

Tags: [2020 \(/blog/2020/\)](/blog/2020/) | [Building & Construction \(/blog/building-products/\)](/blog/building-products/) | [HVAC \(/blog/hvac/\)](/blog/hvac/)

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Airborne Contaminant Removal

A Practical Approach to Infection Risk Reduction

By **Alan Scott and Jarrell Wenger**
Posted July 01, 2020

Last month



(<https://www.metalarchitecture.com/articles/how-can-we-return-to-normal-safely>) we explored science-based guidelines and recommendations for health and safety as we prepare to return to work, school and recreation. These recommendations come from OSHA, CDC, WHO, ASHRAE and other sources that outline best practices to reduce pathogen transmission and infection risks in buildings from SARS-CoV-2 (virus causing COVID-19 disease) and other pathogens. Since writing that column, I have learned a great deal on the subject and engaged in efforts with collaborators to create a model for customized solutions in buildings. Specifically, while many administrative controls like planning, education and enhanced cleaning can be broadly applied, engineering controls focused on indoor environmental quality and airborne contaminant removal require customized solutions.

We know that respiratory droplets are a primary means of direct and indirect transmission for SARS-CoV-2. These droplets, expelled by coughs, sneezes and even loud talking and singing, are heavier than air and tend to precipitate quickly on adjacent surfaces. We also know that an infected person can shed this and other viruses as smaller aerosolized particles (generally in the 0.1 to 1-micron range) that remain suspended in the air for extended periods and are transported by air movement. An effective transmission risk reduction strategy needs to address both.

The [ASHRAE Position Document on Airborne Infectious Disease](https://www.ashrae.org/File%20Library/About/Position%20Documents/Airborne-Infected-Diseases.pdf) (<https://www.ashrae.org/File%20Library/About/Position%20Documents/Airborne-Infected-Diseases.pdf>) and other sources describe the benefits of

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dilution ventilation, higher efficiency filtration and UV sanitization to remove contaminants of concern from air in the breathing zone (generally 3 to 6 feet above the floor). Dilution ventilation means increasing fresh air ventilation above minimum standards (ASHRAE 62.1) moving more airborne contaminants out of the space before occupants breathe them in. Enhanced filtration of recirculated air removes contaminants from the air that occupants are breathing, and the higher the MERV rating (Material Efficiency Reporting Value) of the filter, the smaller the particles it will remove. Finally, evidence shows UV-C light (UVGI lamps) has a germicidal effect and can deactivate viruses in the air and on surfaces. What the resources noted above don't necessarily tell us is how best to apply these measures in specific circumstances and how effective each would be. Some of the application limitations in existing facilities include:

- A partial-building tenant cannot implement the same strategies as a whole building manager.
- Some types of HVAC systems cannot accommodate significant ventilation rate increases or filter efficiency upgrades.
- Some extreme climates limit the potential to increase ventilation while also maintaining thermal comfort.
- Filters in an HVAC system are only effective at removing contaminants from interior sources if indoor air is circulated at a sufficient rate.
- UVGI lamps in HVAC systems must be of adequate intensity to disinfect air passing by at a rapid rate, and deployments in occupied spaces must avoid human exposure and potential degradation of finish materials.

To address these limitations and guide the selection of the optimal combination of strategies, [Engineering Economics Inc.](https://www.eeiengineers.com/) (EEI) has been combing through the available data on the efficacy of these strategies and developing a model to calculate the cumulative benefits. Rather than focus on prescribed requirements like percent increases above ASHRAE 62.1-2016 minimum ventilation rates or filters of a specific MERV rating, their model sets a contaminant removal target (e.g., 99%) and calculates the time required to reach that target after a presumed contaminant is released in the space, based on selected strategies. This approach provides flexibility to achieve the results that matter most, contaminant removal and reduced virus spread, in a wide array of space types with various HVAC system configurations. The desired time-to-target could vary based on risk levels and owner expectations, where a longer time may be acceptable in a private office space, but a dental clinic or retirement home would benefit from more rapid removal. Let's look at an example to illustrate this.

A typical office space would have a ventilation rate of 0.5 air changes per hour (ACH) and MERV 8 filters (that primarily remove only larger dust particles) in the air handling equipment. In this scenario, it would take approximately 299 minutes to reach a 99% contaminant removal target after an interior release (like an occupant coughing). If feasible, increasing the ventilation rate to 2.4 ACH with the same MERV 8 filters cuts that time by almost two-thirds (104 min.). Alternatively, retaining the lower ventilation rate but upgrading to MERV 13 filters gets to the target in 84 minutes. If the HVAC system supports both an increased ventilation rate

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and filter upgrade, the target can be reached in just over an hour (65 min.). Encouragingly, if no HVAC upgrades are possible (e.g., in a tenant space), deployment of portable HEPA filter air cleaners (with sufficient air flow for the volume of space) could achieve 99% contaminant removal in about 40 minutes. Finally, if all three approaches were implemented in combination, the target could be reached in less than 30 minutes.

This approach also allows consideration of the energy use impacts of various strategies, supporting a balanced approach. A similar assessment could be conducted for other space types and with other strategies, such as upper room UVGI. Importantly, these measures not only limit transmission risks of SARS-CoV-2, they will also reduce absenteeism due to seasonal flu and the common cold, and other respiratory health impacts. Improved ventilation also improves productivity by increasing cognitive functioning in occupants.

While frequent cleaning, hand washing and mask wearing are effective measures to protect occupant health, they are also subject to inconsistent human execution. Engineering controls provide a consistent baseline infection risk reduction to backstop for these variable administrative control measures. Employers and facility managers want to protect the health and wellbeing of occupants, and employees, customers, students and others who occupy or visit buildings want assurance that they are safe to enter and occupy. While there is no way to guarantee that occupants won't get sick if an infected person enters a facility, implementing best practices to reduce risks can be reassuring for all stakeholders, and enhance the on-going health and wellness of occupants.

Alan Scott, FAIA, LEED Fellow, LEED AP BD+C, O+M, WELL AP, CEM, is an architect with over 30 years of experience in sustainable building design. He is a senior consultant with [Intertek Building Science Solutions \(https://www.intertek.com/building/building-sciences/\)](https://www.intertek.com/building/building-sciences/) in Portland, Ore. **Jarrell Wenger, PE, LEED AP**, is a mechanical engineer with over 30 years of experience, and principal with [Engineering Economics Inc. \(https://www.eeiengineers.com/\)](https://www.eeiengineers.com/) in Denver. To learn more, follow Scott on Twitter, @alanscott_faia (http://twitter.com/alanscott_faia).

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White Paper



**AIR CLEANING AND
DISINFECTION FOR BUILDING
RE-OCCUPANCY DURING
COVID-19**

October 2020





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Thought Leadership Examples



The scientific community's growing consensus is that a significant, if not dominant, mode of SARS-CoV-2 virus transmission (the cause of COVID-19), is via small aerosolized particles. These particles remain airborne for minutes or hours, generating significant concerns regarding re-occupying buildings for school, work, and play. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) states:

"Transmission of SARS-CoV-2 through the air is sufficiently likely that airborne exposure to the virus should be controlled. Changes to building operations, including the operation of HVAC systems can reduce airborne exposures."

In addition to appropriate maintenance and operation of HVAC systems, ASHRAE recommends extending hours of operation, increasing outside airflow for ventilation, improving filtration, and considering virus disinfection or deactivation technologies. This paper discusses dilution ventilation alongside available air cleaning and disinfection, or virus deactivation, technologies.

Jarrell Wenger, PE, LEED AP
Principal | Central Engineering Group



i. Provide any additional information related to products and services

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Dilution Ventilation

Dilution ventilation with clean outside air is the primary means of maintaining acceptable concentrations of most indoor air contaminants. Increasing ventilation flow relative to space volume (air change per hour (ACH)) dilutes contaminants faster. This approach achieves lower concentrations of indoor contaminants even when contaminants are generated continuously by a contagious person.

ACH	Time for 99% Contaminant Removal
1	286 minutes
2	138 minutes
4	69 minutes
6	46 minutes
8	35 minutes
10	28 minutes
12	23 minutes

The adjacent table summarizes the time required to remove 99% of contaminants as an ACH function once the generation ceases. Increased ACH and reduced contaminant concentration lower COVID-19 infection risk.

In most indoor spaces, a significant portion of the supplied air recirculates, so outside air ACH is limited. Some recirculated air can be considered equivalent clean air through removal or deactivation of a specific contaminant like a virus or virus-containing particles. This exchange substantially increases the equivalent ACH. Most commercial HVAC systems have a combined ventilation and recirculation airflow potential of about 6 ACH.

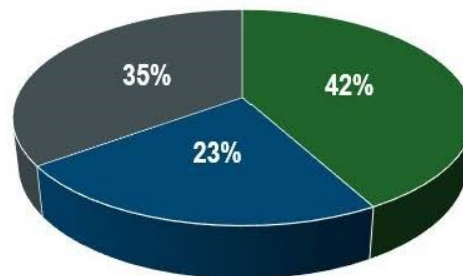
Filtration

The COVID-19 virus itself is only about 0.16 microns in diameter. For reference, a human hair is about 70 microns in diameter. Still, the wide range of COVID-19 particle sizes is concerning. Testing the cough particles of influenza patients revealed the following:

Settling Time for Airborne Particles

Particle Size	Settling Time
0.5 Microns	41 Hours
1.0 Micron	12 Hours
3.0 Microns	1.5 Hours
10 Microns	8.2 Minutes
100 Microns	5.8 Seconds

Viral RNA in Influenza Particles



■ < 1 Micron ■ 1 - 4 Microns ■ > 4 Microns





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“
 MERV 13 filters have a 50% capture efficiency in the 0.3-1 micron range and better than 90% efficiency for particles larger than 1 micron.
 ”

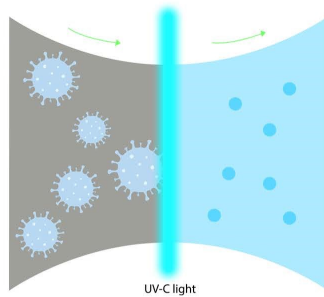
MERV Filters

ASHRAE rates filter performance as Mean Effective Rating Value (MERV) on a scale from 1 to 20. Higher numbers indicate higher particle capture efficiency, especially for small particles. In the size range of 0.3 to 1 micron, common MERV 8 commercial filters have essentially no particle capture capability. While there are incremental improvements in capture efficiency for each subsequent MERV rating, ASHRAE recommends filters with at least a MERV 13 rating. MERV 13 filters have a 50% capture efficiency in the 0.3-1 micron range and better than 90% efficiency for particles larger than 1 micron.

HEPA Filters

Unfortunately, some systems have insufficient space and/or fan capacity for MERV 13 filters. High-Efficiency Particulate Air (HEPA) filters have better than 99.9% efficiency for tiny particles but demand higher capacity fans. HEPA filtration is possible through in-room appliances that provide at least 6 ACH of cleaned air for small, office-size spaces.

Virus Deactivation



Ultraviolet Germicidal Irradiation

The best-established technology for deactivating viruses in occupied spaces is ultraviolet germicidal irradiation (UVGI). UVGI has decades of success on infectious agents such as tuberculosis. It uses the UV-C range of the ultraviolet spectrum to maximize germicidal benefits while minimizing material damage and ozone production. UV-C can damage eyes and skin, so careful control to avoid exposure is critical. Also, UV lamps require replacement regularly, annually or biannually.

Applications

UVGI is very effective in poorly ventilated spaces. Appliances mounted near the ceiling prevent irradiation in the occupied zone. Alternatively, UVGI can be integrated into HVAC to disinfect surfaces or the moving airstream; however, dosing viruses carried by rapidly moving air requires high intensity. Operators must use care in application and operation because UVGI degrades materials like rubber and plastic.





i. Provide any additional information related to products and services

Thought Leadership Examples



Photocatalytic Oxidation

Photocatalytic Oxidation (PCO) utilizes a UV-activated catalyst like titanium dioxide to decompose organic molecules through oxidation, ultimately producing carbon dioxide and water. The effectiveness of PCO is dependent on system design and application. Certain compounds such as hydrogen sulfide or sodium can poison the catalyst, diminishing its effectiveness.

There is limited research on the efficacy of PCO for deactivation of airborne pathogens. While a UV-C activation source can augment PCO capability, a UV source at inappropriate wavelengths can generate undesirable ozone. An additional concern is that PCO can partially decompose molecules, creating intermediate compounds that are detrimental to occupant health and well-being.

Ion Generation

Ion generators create positive and/or negative ions in the air that impart a charge to particles. This process attracts particles to surfaces with an opposite charge or leads to agglomeration into larger particles that are more easily captured by filters.

There is some indication that prolonged exposure to very high ion concentrations can deactivate viruses. In a Korean study, filters captured particles containing the virus and exposed them to ionized air. The researchers then evaluated the decay of virus viability.

The most rapid decay was with positive-plus-negative ions (bipolar) at concentrations of 6.6 and 3.4 million per cc, respectively. At exposure times of 15, 30, and 45 minutes, the virus showed deactivation at 64.3, 89.1, and 97.4%, respectively. If we extrapolate these results to airborne pathogens in enclosed buildings, the decay is about the same order as can be achieved with 4 ACH of dilution ventilation.

Note: The ion concentration used to achieve this decay is about three orders of magnitude higher than typically recommended by manufacturers of ionization systems for buildings. Effectiveness at typical operating conditions remains unproven. Concerns include intermediate compounds from partially decomposed organic molecules for photocatalytic oxidation and ion generators' potential to generate ozone as a byproduct.



i. Provide any additional information related to products and services

Thought Leadership Examples

Ozone

Although ozone has disinfectant properties at high concentrations, it is a potent upper respiratory irritant for humans and can increase infection susceptibility. Occupants should not tolerate ozone in indoor environments, and care must be taken to ensure that it is not generated as a byproduct of other building processes. Appliances that can generate ozone should be certified to be compliant with standards such as UL 2998.

Summary

Based on available objective information, improved filtration is the first choice to supplement the outside air ventilation available to dilute airborne pathogens. Filters are well-characterized for performance, simple, and reliable. Still, system capabilities may limit in-system filtration performance, and some modification of maintenance procedures may be appropriate. In-system filtration can be augmented with in-room recirculating filtration units as necessary.

UVGI is a proven technology for deactivating airborne pathogens, with capabilities, limitations, and disadvantages that are well understood.

Other deactivation technologies have unproven effectiveness against airborne viruses under typical operating conditions and may have undesirable side effects. While they can provide some benefits when properly applied, they should not be used in place of proven deactivating strategies.



i. Provide any additional information related to products and services

Thought Leadership Examples

References

ASHRAE Position Document on Infectious Aerosols, ASHRAE, April 14, 2020, https://www.ashrae.org/file%20library/about/position%20documents/pd_infectiousaerosols_2020.pdf

ASHRAE Position Document on Filtration and Air Cleaning, ASHRAE, January 29, 2015 Reaffirmed January 13, 2018, <https://www.ashrae.org/file%20library/about/position%20documents/filtration-and-air-cleaning-pd.pdf>

Lindsley, William G., et al. "Measurements of Airborne Influenza Virus in Aerosol Particles from Human Coughs." PLoS ONE, vol. 5, no. 11, 2010, doi:10.1371/journal.pone.0015100. https://www.researchgate.net/publication/49677743_Measurements_of_Airborne_Influenza_Virus_in_Aerosol_Particles_from_Human_Coughs

Hyun, Junho, et al. "Application of Corona Discharge-Generated Air Ions for Filtration of Aerosolized Virus and Inactivation of Filtered Virus." Journal of Aerosol Science, Pergamon, 11 Feb. 2017, www.sciencedirect.com/science/article/pii/S0021850216302798



ADDITIONAL REQUIRED DOCUMENTS

A. Acknowledgment and Acceptance of Region 4 ESC's Open Records Policy (Appendix C, Doc #1)

Appendix C, Doc #1

**ACKNOWLEDGMENT AND ACCEPTANCE
OF REGION 4 ESC's OPEN RECORDS POLICY**

OPEN RECORDS POLICY

All proposals, information and documents submitted are subject to the Public Information Act requirements governed by the State of Texas once a Contract(s) is executed. If an Offeror believes its response, or parts of its response, may be exempted from disclosure, the Offeror must specify page-by-page and line-by-line the parts of the response, which it believes, are exempt and include detailed reasons to substantiate the exemption. Price is not confidential and will not be withheld. Any unmarked information will be considered public information and released, if requested under the Public Information Act.

The determination of whether information is confidential and not subject to disclosure is the duty of the Office of Attorney General (OAG). Region 4 ESC must provide the OAG sufficient information to render an opinion and therefore, vague and general claims to confidentiality by the Offeror are not acceptable. Region 4 ESC must comply with the opinions of the OAG. Region 4 ESC assumes no responsibility for asserting legal arguments on behalf of any Offeror. Offeror is advised to consult with their legal counsel concerning disclosure issues resulting from this procurement process and to take precautions to safeguard trade secrets and other proprietary information.

Signature below certifies complete acceptance of Region 4 ESC's Open Records Policy, except as noted below (additional pages may be attached, if necessary).

Check one of the following responses to the Acknowledgment and Acceptance of Region 4 ESC's Open Records Policy below:

- We acknowledge Region 4 ESC's Open Records Policy and declare that no information submitted with this proposal, or any part of our proposal, is exempt from disclosure under the Public Information Act.
- We declare the following information to be a trade secret or proprietary and exempt from disclosure under the Public Information Act.

(Note: Offeror must specify page-by-page and line-by-line the parts of the response, which it believes, are exempt. In addition, Offeror must include detailed reasons to substantiate the exemption(s). Price is not confidential and will not be withheld. All information believed to be a trade secret or proprietary must be listed. It is further understood that failure to identify such information, in strict accordance with the instructions, will result in that information being considered public information and released, if requested under the Public Information Act.)

November 12, 2020

Date

Authorized Signature & Title



ADDITIONAL REQUIRED DOCUMENTS

Antitrust Certification Statement (Texas Government Code 2155.005)
(Appendix C, Doc #2)

Appendix C, Doc #2

ANTITRUST CERTIFICATION STATEMENTS
(Tex. Government Code § 2155.005)
Attorney General Form

I affirm under penalty of perjury of the laws of the State of Texas that:

- 1. I am duly authorized to execute this Contract on my own behalf or on behalf of the company, corporation, firm, partnership or individual (Company) listed below;
2. In connection with this proposal, neither I nor any representative of the Company has violated any provision of the Texas Free Enterprise and Antitrust Act, Tex. Bus. & Comm. Code Chapter 15;
3. In connection with this proposal, neither I nor any representative of the Company has violated any federal antitrust law; and
4. Neither I nor any representative of the Company has directly or indirectly communicated any of the contents of this proposal to a competitor of the Company or any other company, corporation, firm, partnership or individual engaged in the same line of business as the Company.

Company Intertek

Contact

Handwritten signature of Alan Scott

Signature Alan Scott, FAIA

Printed Name Senior Consultant

Position with Company

Address Intertek

3730 Dacoma Street

Houston, Texas 77092

Official Authorizing Proposal

Handwritten signature of Shashank Valluru

Signature Shashank Valluru, PE

Printed Name Regional Vice President

Position with Company


Phone 971-230-8029

Fax 713-682-2665



ADDITIONAL REQUIRED DOCUMENTS

Implementation of House Bill 1295 Certificate of Interested Parties
9Form 1295) (Appendix C Doc #3)

CERTIFICATE OF INTERESTED PARTIES		FORM 1295																																																									
		1 of 1																																																									
Complete Nos. 1 - 4 and 6 if there are interested parties. Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.		OFFICE USE ONLY																																																									
1 Name of business entity filing form, and the city, state and country of the business entity's place of business. PROFESSIONAL SERVICE INDUSTRIES. INC Houston, TX United States		CERTIFICATION OF FILING Certificate Number: 2020-689017 Date Filed: 11/12/2020 Date Acknowledged:																																																									
2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed. Region 4 Education Service Center																																																											
3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract. Solicitation 21-03 Facilities Health Consulting, Quality Assurance, Management, and Additional Products and Services																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 40%;">4</th> <th rowspan="2" style="width: 30%;">Name of Interested Party</th> <th rowspan="2" style="width: 20%;">City, State, Country (place of business)</th> <th colspan="2" style="width: 10%;">Nature of interest (check applicable)</th> </tr> <tr> <th style="width: 5%;">Controlling</th> <th style="width: 5%;">Intermediary</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)		Controlling	Intermediary																																																		
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5 Check only if there is NO Interested Party. <input checked="" type="checkbox"/>																																																											
6 UNSWORN DECLARATION My name is <u>Shashank Valluru, P.E.</u> , and my date of birth is <u>November 25, 1977</u> My address is <u>3730 Dacoma Street</u> , <u>Houston</u> , <u>TX</u> <u>77092</u> <u>USA</u> <small>(street) (city) (state) (zip code) (country)</small> I declare under penalty of perjury that the foregoing is true and correct. Executed in <u>Harris</u> County, State of <u>Texas</u> , on the <u>12</u> day of <u>November</u> , 20 <u>20</u> . <small>(month) (year)</small> <div style="text-align: center;">  Signature of authorized agent of contracting business entity </div>																																																											



ADDITIONAL REQUIRED DOCUMENTS

Texas Government Code 2270 Verification Form (Appendix C, Doc #4)

Appendix C, DOC # 4

Texas Government Code 2270 Verification Form

House Bill 793 (86R Legislative Session), which adds Chapter 2270 to the Texas Government Code, provides that a governmental entity may not enter into a contract with a company without verification that the contracting vendor does not and will not boycott Israel during the term of the contract.

Furthermore, Senate Bill 252 (85R Legislative Session), which amends Chapter 2252 of the Texas Government Code to add Subchapter F, prohibits contracting with a company engaged in business with Iran, Sudan or a foreign terrorist organization identified on a list prepared by the Texas Comptroller.

I, Shashank Valluru, PE, as an authorized representative of Intertek, a contractor engaged by Insert Name of Company

Region 4 Education Service Center, 7145 West Tidwell Road, Houston, TX 77092, verify by this writing that the above-named company affirms that it (1) does not boycott Israel; and (2) will not boycott Israel during the term of this contract, or any contract with the above-named Texas governmental entity in the future.

Also, our company is not listed on and we do not do business with companies that are on the Texas Comptroller of Public Accounts list of Designated Foreign Terrorists Organizations found at <https://comptroller.texas.gov/purchasing/docs/foreign-terrorist.pdf>.

I further affirm that if our company's position on this issue is reversed and this affirmation is no longer valid, that the above-named Texas governmental entity will be notified in writing within one (1) business day and we understand that our company's failure to affirm and comply with the requirements of Texas Government Code 2270 et seq. shall be grounds for immediate contract termination without penalty to the above-named Texas governmental entity.

I swear and affirm that the above is true and correct.

Signature of Named Authorized Company Representative

November 12, 2020

Date



Felony Conviction Notification ([Appendix c, Doc #5](#))

Appendix C, DOC # 5

FELONY CONVICTION NOTIFICATION

Section 44.034, Texas Education Code, Notification of Criminal History, Subsection (a), states "A person or business entity that enters into a contract with a school district must give advance notice to the district if the person or an owner or operator of the business entity has been convicted of a felony. The notice must include a general description of the conduct resulting in the conviction of a felony."

Subsection (b) states "A school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by Subsection (a) or misrepresented the conduct resulting in the conviction. The district must compensate the person or business entity for services performed before the termination of the contract."

This Notice is Not Required of a Publicly-Held Corporation

CRIMINAL HISTORY REVIEW OF CONTRACTOR EMPLOYEES

Offeror shall review §22.0834, Texas Education Code and 19 Texas Administrative Code §§153.1101 and 153.1117 regarding criminal history checks of school contractor employees. The rules define continuing duties related to contracted services, direct contact with students, covered contract employee and other relevant terms within the statute.

Except as otherwise provided herein, Offeror will obtain and certify in writing, before work begins, that the Offeror has received all criminal history record information that relates to an employee, applicant, agent or Subcontractor of the Offeror/Contractor or Subcontractor, if the person has or will have continuing duties related to the contracted services, and the duties are or will be performed on Region 4 ESC's, or Participating Public Agency as applicable to the Texas Education Code, property where students are regularly present or at another location where students are regularly present. Awarded Offer(s) shall assume all expenses associated with the background checks and shall immediately remove any employee or agency who was convicted of, receive probation for, or received deferred adjudication for any felony as outlined below or any misdemeanor involving moral turpitude, from Region 4 ESC's property or other location where students are regularly present.

Offeror/Contractor or sub-contractors may not work on Region 4 ESC's, or Participating Public Agency where the Texas Education Code may be applicable, property where students are present when they have been convicted, received probation, or deferred adjudication for the following felony offenses:

1. Any offense against a person who was, at the time the offense occurred, under 18 years of age or enrolled at a public school;
2. Any sex offense;
3. Any crimes against persons involving:



ADDITIONAL REQUIRED DOCUMENTS

Felony Conviction Notification (Appendix c, Doc #5)

- a. Controlled substances; or
- b. Property; or
- 4. Any other offense Region 4 ESC, or Participating Public Agency where the Texas Education Code may be applicable, believes might compromise the safety of students, employees or property.

I, Shashank Valluru, PE, as an authorized representative of Intertek, the Offeror verify that:

A. My company is **not** owned nor operated by anyone who has been convicted of a felony.

Signature of Company Official: _____ Date: _____

B. My company is **owned** or operated by the following individual(s) who has/have been convicted of a felony:

Name of Felon(s): N/A

Details of Conviction(s) : _____

Date: _____

C. My company is a **publicly held** corporate, therefore, this reporting requirement is not applicable.

Signature of Company Official:  Date: November 12, 2020



ADDITIONAL REQUIRED DOCUMENTS

Any additional agreements Offeror will require Participating Agencies to sign

We have no additional agreements that will require participating agencies to sign.



TOTAL QUALITY. ASSURED.

Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.

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