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WV PURCHASING
DIVISION

EXPRESSION OF INTEREST

ARCHITECTURAL/ENGINEERING SERVICES FOR PSC HQ HVAC UPGRADE

PREPARED FOR

WEST VIRGINIA ARMY NATIONAL GUARD

H.F. LENZ
ENGINEERING

H.F. Lenz Co.
1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814.269.9300
FAX: 814.269.9301

HFL File No. 2025-1575.00

June 12, 2025

H.F. LENZ
ENGINEERING
H.F. Lenz Co. | 1407 Scalp Avenue | Johnstown, PA | 15904 | 814-269-9300

June 11, 2025

Department of Administration
Mr. Larry D McDonnell, Buyer
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Subject: Expression of Interest
Architectural/Engineering Services for PSC HQ HVAC Upgrade
HFL File No. 2025-1575.00

Dear Mr. McDonnell:

H.F. Lenz Company (HFL) is enthusiastic about the opportunity to provide the Architecture/ Engineering Services required for the replacement upgrades of the current outdated HVAC system at the Public Service Commission buildings.

The analytical skills, design capability, creativity, and overall knowledge possessed by our Team will enable us to successfully complete all aspects of the work within the allotted budget and timeframe. Our Team is fully prepared to bring the following strengths and benefits to this project:

- Extensive and recent experience with similar HVAC replacement projects for DOD and government buildings.
- Qualified and experienced subconsultant: DRS Architects, Inc., (Sixmo Companies) a Small Business offering architectural, planning and interior design services for over 60 years. DRS Architects and H.F. Lenz Co. have worked together for over the past 30+ years and have collaborated on hundreds of projects. Many have included the collaborations for PA National Guard maintenance buildings renovations, previous work for the three new billeting facilities for WVANG at Camp Dawson, DGS Crane Readiness Center and DGS New Castle Readiness Center, PA State Police new headquarters expansion, and U.S. Air Force - 911th Airlift Group. Latest projects with DRS:
- Our Project Manager for this project, Brian D. Schmidt, P.E., has over 19 years of experience including Department of Defense (DOD) project experience, and a long history of projects located in West Virginia.
- Senior-Level Personnel. Our Team consists of senior-level professionals who will remain involved with the project throughout its duration.
- Firm Stability. This is our 79th year in business. We have one of the lowest rates of employee turnover in our industry.
- Proven ability to work in collaboration with Owners and other consultants throughout the project while placing the Owner's interests first.

Thank you for the opportunity to submit this Expression of Interest. We look forward to the next steps in the selection process, including a possible oral presentation. In the meantime, we will be happy to answer any questions you may have regarding our submission.

Sincerely,

H.F. LENZ COMPANY

Thomas F. Deter, P.E., LEED AP
President

Table Of Contents

TAB 1: FIRM PROFILE

H.F. LENZ
ENGINEERING

Firm Profile

H.F. Lenz Company

H.F. Lenz Company was established 1946 in its present form, under the name H.F. Lenz Company, R.E., and in 1953 the company was incorporated, as a Private Corporation, in Pennsylvania as H.F. Lenz Co. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed $1.5 billion in construction annually. Each market sector— government, corporate, health care, education, and industry—is served by a team of specialists who understand the unique needs of the clients we serve. Our staff consists of 190+ individuals, including 41 Licensed Professional Engineers and 14 LEED Accredited Professionals. Our headquarters is in Johnstown, PA with branch offices in Pittsburgh and Lancaster, PA; Conneaut, OH; and Middletown, CT.

Johnstown Headquarters
1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814-269-9300
Fax: 814-269-9301

Pittsburgh Office
1051 Brinton Road
Pittsburgh, PA 15221
Phone: 412-371-9073

Lancaster Office
120 North Pointe Boulevard
Suite 203
Lancaster, PA 17601
Phone: 717-461-3916

Ohio Office
322 State Street
Conneaut, OH 44030
Phone: 440-599-7800
Fax: 440-599-7801

Connecticut Office
101 Centerpoint Drive
Suite 237
Middletown, CT 06457
Phone: 860-316-2124

Disciplines/services offered in-house include:

- Mechanical Engineering
- Electrical Engineering
- Data/Communications Engineering
- Fire Protection / Life Safety Engineering
- Structural Engineering
- Civil Engineering
- Surveying
- Construction Phase Services
- Commissioning and Training
- 3D CADD with Full Visualization
- Energy Modeling
- Sustainable design/LEED Services
- Building Information Modeling (BIM)

H.F. Lenz Company has provided engineering services for over $100 million of construction for the Baltimore Corps of Engineers over the past 30 years including 7 indefinite delivery-type contracts and 11 new reserve centers, several of which were in West Virginia. Our experience also includes several recent projects for the Pennsylvania National Guard, including projects for Clearfield Readiness Center, Crane Readiness Center and New Castle Readiness Center. In addition, we have held six consecutive term contracts for Letterkenny Army Depot under which we have completed more than 100 projects requiring a variety of engineering expertise. **We previously provided the engineering services for the design of three new billeting facilities for WVANG at Camp Dawson.** In addition, we have extensive project experience in West Virginia, which includes over 400 projects in the past 30 years.

DRS Architects (Sixmo Companies) and H.F. Lenz Co. have collaborated on hundreds of projects over the past 30+ years, which include projects for the PA National Guard projects at Crane and New Castle Readiness Centers and a new regional maintenance building in Johnstown, PA; and projects under multiple term contracts for the U.S. Air Force - 911th Airlift Group; a confidential federal government agency in West Virginia; a nationwide term contract for NASA facilities; and 70+ projects for DOE/NETL campuses in West Virginia, Pennsylvania and Oregon.

LEED®

H.F. Lenz Company has been a member of the U.S. Green Building Council since 2000. Our experience includes 120+ projects that have attained various levels of LEED Certification, in total over 16 million SF of facilities.

DRS Architects Firm Profile

Celebrating over 60 years of practice as one of the region's leading architectural, planning, and interior design firms, DRS Architects provides design services with a strong commitment to focus on our clients' needs and objectives. DRS provides architectural design, management of the design process, control of project costs and schedule, and we seek design excellence with every commission.

We are now in our sixth generation of firm leadership thanks to our acquisition in 2024 by the Sixmo Companies, strengthening our firm's position in the market and expanding on our service offerings.

Our firm leadership is:

- Patrick E. Thornton, President
- Jared S. Perry, Vice President
- Jon Funari, Principal

Some of our notable clients include:

- Pennsylvania Army National Guard
- Department of Energy, NETL
- Federal Bureau of Investigation
- Pennsylvania State Police
- Baltimore Corps of Engineers
- US Postal Service
- University of Pittsburgh
- Slippery Rock University
- Duquense University
- Starbucks
- YMCA

We provide architectural design services, including:

- Facilities Evaluation
- Code Analysis
- Master Planning
- Site Analysis
- Facility Programming
- Feasibility Studies
- Interior Design
- Cost Estimating
- Contract Documents
- Contract Administration
- Post-occupancy Services

Our clients have relied on DRS to successfully deliver the design of new buildings and renovations for the last six decades. We attribute a large measure of our success to a methodical approach to design, applying thoughtfulness and experience to every project regardless of size, while recognizing that each project is a unique combination of client, program, and circumstance. At the heart of our design approach is the philosophy that the most successful designs are the result of a back-and-forth exchange of ideas, discussion, and understanding between the participants in the process.

We view each project with an eye towards sustainability and as an opportunity to improve the well-being of people by employing environmentally responsible design strategies, even when certification is not a requirement. With our LEED Accredited Professionals, our team brings knowledgeable experience to all our projects.

Firm History

DRS Architects' long and varied history has shaped our corporate culture. Officially founded in 1959, we look back on more than six decades of successful architecture, planning, and interior design, even as we look forward to more achievements in the future.

The first iteration of DRS was the firm Mitchell and Ritchey, a partnership of James Mitchell and Dahlen Ritchey, formed in 1953 to design Pittsburgh's Mellon Square and (as associate architect) the adjacent Alcoa Headquarters tower. These projects were quickly followed by the commission to design Pittsburgh's Civic Arena.

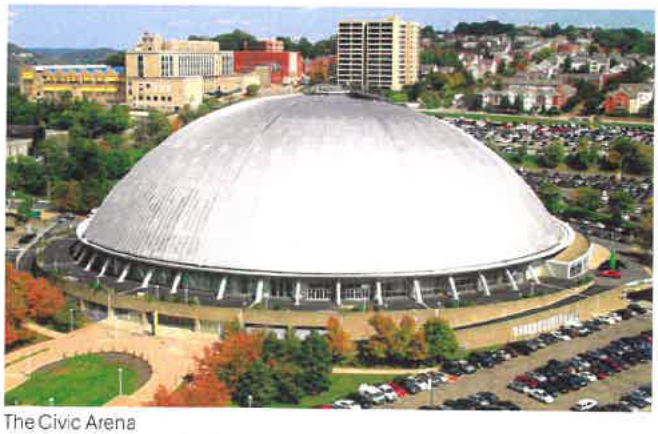
Mitchell left the partnership in 1957 to relocate out of state, and by 1959 Dahlen Ritchey had started a new practice with his good friend Russell Deeter to complete the Civic Arena project. The partnership quickly developed a reputation as an influential architecture firm in Pittsburgh with commissions to design a series of large-scale projects including Three Rivers Stadium, one of the first multi-purpose sports stadiums in the country; Allegheny Center, and multiple new higher-education buildings at the University of Pittsburgh and Carnegie Mellon University. When William Sippel was advanced to Principal from within the firm in 1964, the firm name was changed to Deeter-Ritchey-Sippel, eventually becoming DRS Architects.

Over the course of the 1960's and 1970's, the firm continued to augment its portfolio of consequential projects in the region and around the country. By the 1980's the firm had grown to 60 people, reaching it's largest size.

The ownership of DRS transitioned from the fifth generation of principals to the sixth in 2024 with its acquisition by Sixmo Companies, a multi-discipline family of firms headquartered in Marietta, Ohio. The new partnership offered DRS access to resources not prior available to a firm of its size; provided for an expanded geographic footprint; brought in-house multi-discipline capabilities; and provided an exit transition for the fifth generation of leadership.

DRS continues to be one the region's most significant architectural firms and continues to grow and evolve with the times. We look forward to a promising future, but we always respect the path that led us to our current position.

Mellon Square with the Alcoa Building in the background



The Civic Arena

Three Rivers Stadium

Design Awards

One of the ways we measure success is from the recognition of our peers. DRS Architects' work has been the recipient of numerous design and technical awards over our many years:

2018
Mellon Square Park and Alcoa Building
Timeless Award, 50 Years
AIA Pennsylvania Special Awards

2015
University of Pittsburgh, Salk Hall
Building Excellence Award for New Construction over $25M
Master Builder Association of Western Pennsylvania

2014
Market Square Place
Charter Award of Merit for the Best Block, Global Awards Program for Excellence in Urban Design
The Congress for New Urbanism

Slippery Rock University Robert M. Smith Student Center
Facility Design Award
Association of College Unions International

2013
Slippery Rock University Robert M. Smith Student Center
AIA Honor Award
Pittsburgh Chapter of the AIA

Slippery Rock University Robert M. Smith Student Center
Best Education Design
IIDA New England Interior Design Awards

Westmoreland County Transit Authority Maintenance Facility
Diamond Award Certificate
American Council of Engineering Companies of Pennsylvania

2012
BNY Mellon Center Exterior Rehabilitation
Building Excellence Award for Best Renovation Construction over $10M
Master Builder Association of Western Pennsylvania

2009
Duquense University Power Center
Bronze Design Award
10,000 Friends of Pennsylvania

2005
Advanced Chemistry Lab, Aberdeen Proving Ground
Project Development Team of the Year Worldwide
Corps of Engineers

TAB 2: MANAGEMENT APPROACH
WORKLOAD & CAPABILITY
STAFF AVAILABILITY

H.F. LENZ ENGINEERING

Project Management Approach

Management Approach

We have developed the management techniques, accountability protocols, and reporting methods to successfully and efficiently respond to these types of projects. Contributing to this is the direct involvement of our senior-level Principals and Project Managers who possess the technical expertise, fully understand the Client's business or mission, and have the ability to create and maintain a collaborative environment among all Team members.

Thomas F. Deter, P.E., LEED-AP, will serve as our Program Manager for this contract. He will be responsible for managing the overall Project Team and delivering all projects within budget while meeting time schedules. Tom, with over 38 years of engineering experience, has successfully managed a number of DOD projects, including several readiness centers in WV and PA, as well as HVAC and phased infrastructure upgrades for a wide variety of occupied facilities including government buildings, colleges and universities, and private industry facilities.

Brian D. Schmidt, P.E., is our overall Project Engineer for the contract. He will oversee the design team and serve as the main point of contact for project.

Our Project Management Strategy includes:

- **Experienced Project Engineers** - Each of our proposed team members for this project have over 20 years of experience and each has experience public school projects. The Project Engineers will supervise a team of Engineers, Designers, CAD Technicians and Field Personnel who will remain dedicated to the project throughout its duration. Each Project Engineer's objective is to achieve ideal balance among cost, schedule, design quality, and life cycle cost, and will direct all Team Members towards this end.
- **Establish a Dedicated Project Team That Does Not Change** - Consistency of the team is very important in keeping all personnel aligned with the objectives and goals of the project—including budget and schedules adherence. H.F. Lenz Company has one of the lowest employee turnover rates in our industry.
- **Clear and Efficient Communication** - Throughout the project ideas and knowledge are shared, processes are collectively developed, and common goals are defined. Communication is maintained throughout the entire project through team meetings, participating in benchmarking processes, telephone and teleconferencing calls, and online collaborative applications.
- **Assigning Responsibilities** - Maintaining the quality of work while meeting schedules and budgets, is achieved through an ongoing planning process involving dialogue among the various team members in the relationship. The key is the development of a mutual understanding of individual responsibilities, well-defined group goals, and the establishment of real communication. The responsibilities of each Team Member are identified for each phase of the project, from programming and design through construction and commissioning.
- **Coordination of Subconsultants** - The Project Engineers are responsible for keeping all subconsultants up to date and in the communications loop. During a project kickoff meeting, we collaborate with the Project Architect and other consultants to develop well defined and mutually understood project goals and priorities—including project budgets and schedules. We then maintain close communication with all subconsultants through project meetings, partnering sessions, telephone and teleconference sessions, email, and on-line project management applications.
- **Promoting a Collaborative Environment** - We place a high value on creating and supporting a dynamic collaborative environment among the Project Team where ideas and knowledge are shared, processes are collectively developed, and common goals are defined.

H.F. LENZ
ENGINEERING

Project Management Approach

Strategy to Deliver a Quality Product

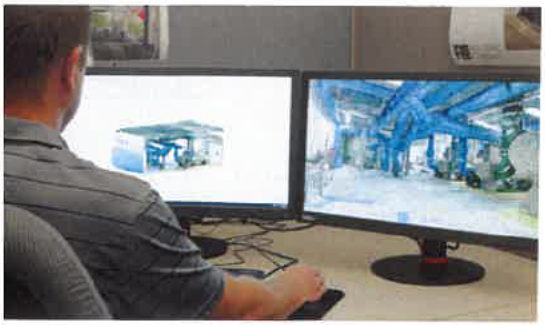
The quality of our Team's construction documents are among the best in the industry. In fact, it is not uncommon for contractors to request copies of our CADD files for their use in preparing shop drawings. Our 3D CADD and/or Revit drawings of mechanical and electrical systems have historically resulted in better coordination between trades, aided contractors in visualizing how installation is to occur, and produced more competitive bidding.

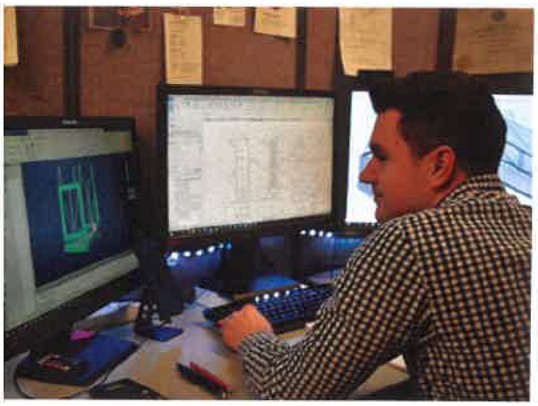
We employ several internal processes to ensure completeness and coordination of the design between the various disciplines and to reduce the number of Change Orders. These processes have been developed by our firm over time and are used on every project.

- **High Level Involvement** – Principals of our firm with extensive experience in multi-discipline projects, will be directly involved with the project throughout its duration.
- **Clear and Efficient Communications Among a Dedicated Design Team**
- **Ongoing Design Reviews**
- **Constructability Reviews**
- **Employing Experienced Field Personnel**
- **Adhering to our Quality Control Program** – By following the procedures set forth in our Quality Assurance/Quality Control plan we are able to produce high quality design documents.

H.F. LENZ
ENGINEERING

Workload and Capacity





Workload/Staff Availability

We have developed the management techniques, accountability protocols, and reporting methods to successfully and efficiently respond to the demands of an "open-end" type contract. Contributing to this is the direct involvement of our senior-level Principals and Project Managers who possess the technical expertise, fully understand the Client's business or mission, and have the ability to create and maintain a collaborative environment among all Team members. In the past 15 years, we have been awarded approximately 50 open-end type contracts where projects are issued to us on a task order basis, usually with quick turnaround requirements. **According to our current workload projections, our team for this contract is at 40% of our workload capacity for the next six months.**

Capacity

The H.F. Lenz Company presently employs 190+ people in our Johnstown, Pennsylvania headquarters and our satellite offices in Conneaut, OH, Pittsburgh and Lancaster, PA and Middletown, CT. Within the firm, all engineering disciplines are represented in-house. Additionally, all of our engineers are cross-trained among the various disciplines, leading to improved communication and overall project efficiency.

The following is a breakdown of our staff capacity:

Mechanical/Electrical Division — 91 Total
16 Licensed Mechanical Engineers
15 Licensed Electrical Engineers
10 Plumbing/Fire Protection
50 Technicians/CADD Operators

Civil/Structural/Survey Division — 33 Total
5 Licensed Civil Engineers
5 Licensed Structural Engineers
19 Technicians/CADD Operators
4 Surveyors

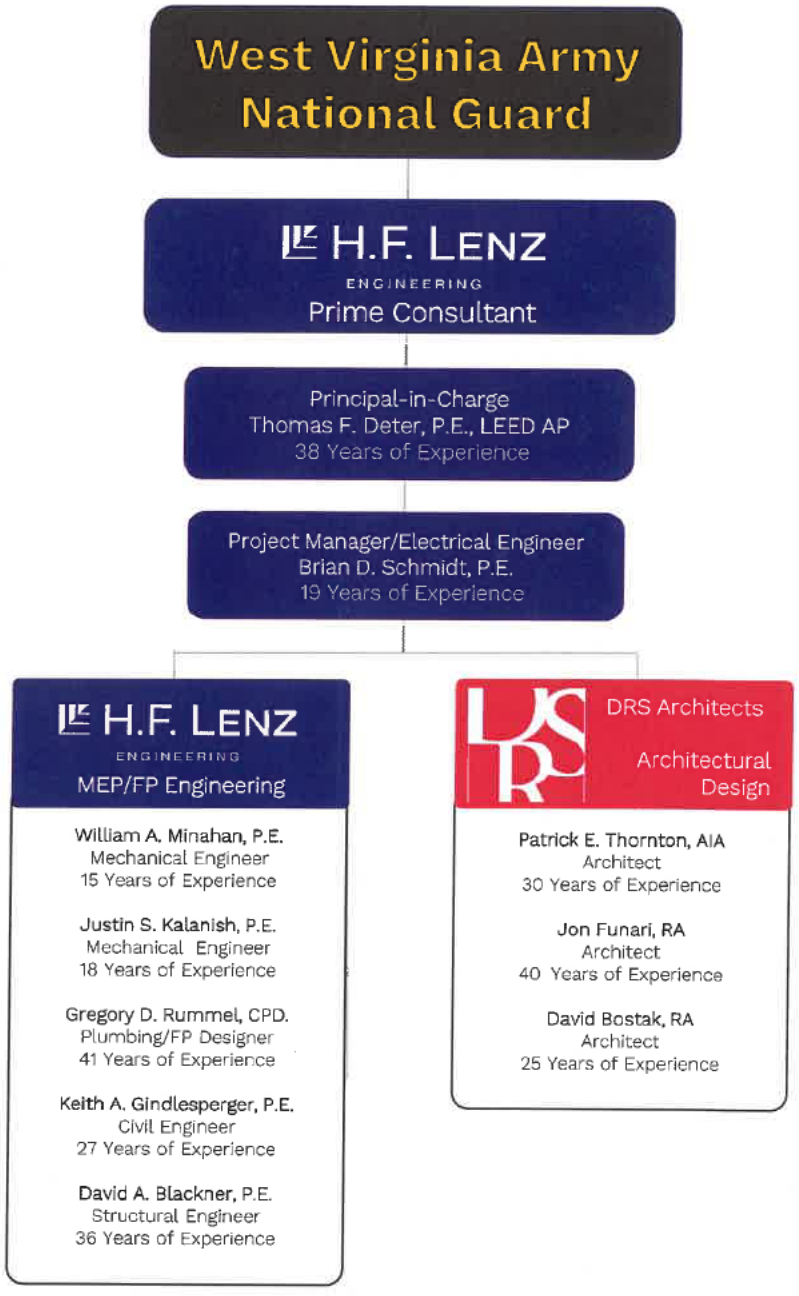
Additional Staff — 66 Total
25 Construction Inspectors
9 Technicians/CADD Operators
32 Administrative/Support Services

190 Total

TAB 3: ORGANIZATIONAL CHART
RESUMES
LICENSES

H.F. LENZ ENGINEERING

Project Team Organizational Chart



H.F. LENZ
ENGINEERING

Resumes

Thomas F. Deter, P.E., LEED AP

Principal-in-Charge

Mr. Deter has over 38 years of experience and is responsible for the engineering design of all trades, the supervision of senior designers, the preparation of reports to determine optimal systems and/or equipment selections, and the coordination and checking of contract documents for completeness and quality. He has extensive experience in the design of building systems for both new buildings and building retrofits for mixed-use developments, educational, health care, commercial, government, industrial, residential, and utility related facilities. Mr. Deter has extensive Department of Defense (DOD) project experience, and a long history of projects located in West Virginia.

Project Experience

West Virginia Army National Guard Facilities
- Weirton - 16,000 SF D/B Aviation Center
- Wheeling - 24,000 SF D/B Reserve Center
- Camp Dawson - Three new billeting facilities

Pennsylvania Army National Guard Facilities
- Crane - Renovation of 26,700 SF reserve center
- New Castle - Renovation of 23,000 SF Readiness Center
- Clearfield - Renovation of 49,760 SF Readiness Center

Rachel Carson Building, Harrisburg, PA
- Replacement/modifications of the HVAC zone distribution ductwork, installation new VAV air terminals, control devices and ceiling diffusers throughout the 400,800 SF facility - Current DGS project

PA Farm Show Complex and Expo Center, Harrisburg, PA
- Various renovations throughout the 700,000 SF facility, including a new boiler plant

The Wannamaker Building, Philadelphia, PA
- Multiple renovations and fit-outs for various government agencies within the 865,000 SF high-rise building

Robert M. Ball Federal Building, Woodlawn, MD
- Complete renovation of the 1.2 million SF SSA Headquarters building - LEED Certified

U.S. Drug Enforcement Administration, Pittsburgh, PA
- New two-story, 50,000 SF office building

Erie Courthouse Complex, Erie, PA
- Renovation of three existing, historically significant buildings, and construction of two new structures

PA Turnpike Commission, Harrisburg, PA
- New three-story addition and renovation to the Central Administration Building-LEED Certified Building

Pennsylvania State Police, Greensburg, PA
- New 31,000 SF State Police Headquarters building

Education
Bachelor of Science, Electrical Engineering Technology, 1987, University of Pittsburgh at Johnstown

Experience
H.F. Lenz Company 1992-Present
Parfitt/Ling Consulting Engineers 1990-1992 • Gary Johnston & Assoc., Inc. 1987-1990

Professional Registration / Certification
Licensed Professional Engineer in PA, AR, ID, IL, IN, MD, NE, NJ, NC, OH, OK, OR, SD, VA and WV • LEED Accredited Professional

Professional Affiliations
NSPE/PSPE • U.S. Green Building Council

References
Stephen Mariner, P.E.
Project Manager
NASA Wallops Flight Facility
Route 175, 175 Chincoteague Rd
Building J-20
Wallops Island, VA 23337
757-824-1363
stephen.a.mariner@nasa.gov

Allen Lichvar
Supervisory General Engineer
National Technology Laboratory
3610 Collins Ferry Road
Morgantown, WV 26507
304-285-4042
Allen.lichvar@netl.dow.gov

Your **ACTIVE PE** renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until the noted expiration date may be detached and used unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. To use this license as a pocket card, please cut along the dotted line and laminate if desired.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

West Virginia State Board of Registration for Professional Engineers

300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free
www.wvpebd.gov

THIS IS ONE FORM OF YOUR RENEWAL RECEIPT

PLEASE SAVE THIS FOR YOUR RECORDS

Date of Renewal: December 4, 2024
Amount Paid: $63.00

West Virginia State Board of Registration for Professional Engineers

THOMAS F. DETER
WV PE #013259

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES December 31, 2026

THOMAS F. DETER
H. F. LENZ COMPANY
1407 SCALP AVENUE
JOHNSTOWN, PA 15904

H.F. LENZ ENGINEERING

Resumes

Brian D. Schmidt, P.E.

Project Engineer/Electrical Engineer

Mr. Schmidt has extensive experience in electrical system modeling and computer calculations (SKM Power Tools) for producing engineering drawings for various types of higher educational, commercial, institutional, and governmental facilities. His experience in the electrical field includes the design of generators, emergency lighting and power distribution systems; exterior high-voltage underground and overhead pole line distribution systems; medium-voltage switchgear building interior and exterior electrical power distribution systems; lightning protection systems; theatrical stage dimming systems; computer room grounding systems and signal reference grid systems; uninterruptible power supply systems; paralleling and synchronizing switchgear; interior and exterior building lighting systems; site utilities; grounding systems; and signal, communication, security, and fire alarm systems. Mr. Schmidt also has attended a 5 day SKM system analysis training course conducted by the SKM System Analysis Tech Support Group.

Education

Bachelor of Science, Electrical Engineering Technology, 2006, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company - 2006 - present

Professional Registration / Certification

Licensed Professional Engineer in PA, CA, IN, NC, NV, NY, MD, OH, OK, SD, VA and WV

Completion of PTW Software and Power Systems Application Courses through IEEE • Completion of Battery Technology and Battery Monitoring through Liebert Corporation

References

Ron Lincoski
Director of Facilities
Penn West University
250 University Avenue
California, PA 15419
724-938-5356
lincoski@pennwest.edu

Todd Sanders
Project Manager
NASA Goddard Space Flight Center
8800 Greenbelt Road
Greenbelt, MD 20771
301-286-9199
todd.g.sanders@nasa.gov

Project Experience

West Virginia Army National Guard Facilities

- Weirton - 16,000 SF D/B Aviation Center
- Wheeling - 24,000 SF D/B Reserve Center
- Camp Dawson - Three new billeting facilities

Pennsylvania Army National Guard Facilities

- Crane - Renovation of 26,700 SF reserve center
- New Castle - Renovation of 23,000 SF Readiness Center
- Clearfield - Renovation of 49,760 SF Readiness Center

PA Farm Show Complex and Expo Center, Harrisburg, PA

- Various renovations throughout the 700,000 SF facility, including a new boiler plant

Franklin County Archives Storage Facility, Chambersburg, PA

- Renovation and expansion of which was part of a larger project which renovated the existing historic Courthouse, a new Justice Center, and a new separate County Administration building

YMCA, Pittsburgh, PA

- New 44,000 SF Thelma Lovette YMCA recreational facility with gym, fitness center, multipurpose rooms and office spaces

Pennsylvania Department of Conservation and Natural Resources

- Multiple projects including office buildings, maintenance facilities, and public areas throughout the state

DOE National Energy Technology Lab, Morgantown, WV

- Primary Power Distribution Switchgear Upgrade: Specified reconditioning requirements for six vacuum breakers with electronic SEL relays; replaced ten electro-mechanical and six aged electronic relays, and provided medium voltage relay settings

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[redacted]

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EXPIRES December 31, 2026

BRIAN D. SCHMIDT
H. F. LENZ COMPANY
1407 SCALP AVENUE
JOHNSTOWN, PA 15904

William A. Minahan, P.E.

Mechanical Engineer

Mr. Minahan has over 15 years' experience in the design of HVAC, plumbing, and fire protection systems. His responsibilities as Project Engineer include code compliance verification, schematic layout, calculations, equipment selection, control system selection, specification writing, coordination, life cycle cost analyses, cost estimating, as well as coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions.

Education
Bachelor of Science in Mechanical Engineering Technology, 2010, The University of Pittsburgh

Experience
H.F. Lenz Company 2010 – Present

Professional Registration / Certification
Licensed Professional Engineer in Pennsylvania

Professional Affiliations
ASHRAE – Johnstown, PA Chapter

References
Christopher L. Conroy, PE, CEM, LEED APBD+C
Associate Director MEP
Carnegie Mellon University
Campus Design and Facility Development
5000 Forbes Avenue
Pittsburgh, PA 15213
412-268-3879
cconroy@andrew.cmu.edu

Ryan Shank, AIA
Design Project Manager | Capitol and Historic Division
DGS Capital Programs |Bureau of Design Management Arsenal Bldg.
1800 Herr St. Harrisburg PA 17125
717-783-2593
ryshank@pa.gov

Project Experience

Pennsylvania Army National Guard Facilities
- Crane - Renovation of 26,700 SF reserve center
- Clearfield - Renovation of 49,760 SF Readiness Center

Rachel Carson Building, Harrisburg, PA
- Replacement/modifications of the HVAC zone distribution ductwork, installation new VAV air terminals, control devices and ceiling diffusers - Current DGS project

PA Farm Show Complex and Expo Center, Harrisburg, PA
- Various renovations throughout the 700,000 SF facility, including a new boiler plant

Franklin County Courthouse Archives Storage Facility, Chambersburg, PA
- Renovation and expansion of which was part of a larger project which renovated the existing historic Courthouse, a new Justice Center, and a new separate County Administration building

Cambria County Courthouse, Ebensburg, PA
- Boiler replacement

Dickenson County Justice Center, Clintwood, VA
- New design/build, three-story, 35,542 SF justice center

New Bucks County Justice Center, Doylestown, PA
- Lower Bucks Government Service Study for renovations and multiple county buildings - Current Project
- New 265,000 SF facility designed to attain LEED Silver

Pennsylvania State Police, Greensburg, PA
- New 31,000 SF State Police Headquarters building with forensics unit and various types of lab spaces

Loysville Youth Development Center, Perry County, PA
- Renovation to the 9,012 SF Zimmerman-Bingman (ZB) Cottage - Current DGS project

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

23 0139546

License Type
Professional Engineer

WILLIAM ANDREW MINAHAN
106 JONES AVE
WINDBER, PA 15963

License Status
Active

Initial License Date
12/23/2015

License Number
PE084434

Expiration Date
09/30/2025

Arion R. Claggett

Acting Commissioner Arion R. Claggett

Signature

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H.F. LENZ
ENGINEERING

Resumes

Justin S. Kalanish, P.E.

Mechanical Engineer

Mr. Kalanish has 17 years of experience in the design of HVAC systems for institutional and governmental clients. His responsibilities include code compliance verification, schematic layout, calculations, equipment selection, coordination, life cycle cost analyses, cost estimating and energy modeling. His experience includes the design of mechanical systems for office buildings and educational facilities. His project experience includes:

Project Experience

Rachel Carson Building, Harrisburg, PA
- Replacement/modifications of the HVAC zone distribution ductwork, installation new VAV air terminals, control devices and ceiling diffusers - Current DGS project

Reading City Hall, Reading, PA
- Study and design for HVAC Upgrades - Current Project

New Bucks County Justice Center, Doylestown, PA
- Lower Bucks Government Service study and design for renovations/ HVAC upgrades and multiple county buildings - Current Project
- New 265,000 SF facility designed to attain LEED Silver

PA Farm Show Complex and Expo Center, Harrisburg, PA
- Various renovations throughout the 700,000 SF facility, including a new boiler plant

Buchanan County Courthouse and Government Center, Grundy, VA
- New 40,000 SF D/B facility and historic clock tower

U.S. Drug Enforcement Administration, Pittsburgh, PA
- New two-story, 50,000 SF office building

Franklin County Courthouse, Franklin County, PA
- Renovation of the existing historic Courthouse, the Courthouse Annex and a new Courts Building, as well as renovations and additions to the existing County Administrative Annex, and construction of a new Archives Building

Clearfield Readiness Center, Clearfield, PA
- Renovations and additions to a 49,760 SF, 25-acres Army National Guard Readiness Center

Pennsylvania State Police, Greensburg, PA
- New 31,000 SF State Police Headquarters building with forensics unit and various types of lab spaces

DOE/National Energy Technology Laboratory (NETL), Various Locations
- Indefinite Delivery-Indefinite Quantity (IDIQ) contract for NETL facilities in Morgantown, WV, Bruceton, PA, and Albany, OR - Facilities include 81 buildings on nearly 200 acres; projects in-cluded renovation and upgrades - Over 100 projects complete

Education
Bachelor of Science, Mechanical Engineering Technology, 2007, University of Pittsburgh at Johnstown

Experience
H.F. Lenz Company 2007 – Present

Professional Registration / Certification
Licensed Professional Engineer in PA

Reference
Christopher L. Conroy, PE
Associate Director MEP
Campus Design and Facility Development
Fax: 412-268-6976
cconroy@andrew.cmu.edu

Craig Washington
Sr. Project Manager | Design & Construction
University of Pennsylvania
445-232-0610
craigwas@upenn.edu


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Bureau of Professional and Occupational Affairs
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H.F. LENZ
ENGINEERING

Resumes

Gregory D. Rummel, CPD

Plumbing/Fire Protection Designer

Mr. Rummel has designed complete plumbing and fire protection systems for parks and recreational facilities, colleges, schools, office buildings, industrial facilities, and military installations. He is fully knowledgeable of NFPA codes and is experienced in the design of wet, dry, preaction, FM200, and deluge fire protection systems. He is responsible for plumbing and sprinkler system design, layout, and calculations; selection and sizing of equipment; cost estimates; and site survey work. Mr. Rummel supervises drafting personnel; coordinates the plumbing design with utility companies, with other trades, and with the Project Engineer and Project Architect; and is responsible for assembling complete and accurate plumbing bid documents which meet H.F. Lenz Company standards.

Education

Bachelor of Science, Mechanical Engineering Technology, 2000, Point Park College

Associate in Specialized Technology 1984, Architectural Drafting and Construction with CAD Technology, Triangle Institute of Technology

Experience

H.F. Lenz Company 1989- Present

Newport News Ship Building 1984-1989

Professional Registration / Certification

Certified in Plumbing Design, ASPE

References

Todd Sanders
Project Manager
NASA Goddard Space Flight Center
8800 Greenbelt Road
Greenbelt, MD 20771
301-286-9199
todd.g.sanders@nasa.gov

Allen Lichvar
Supervisory General Engineer
National Technology Laboratory
3610 Collins Ferry Road
Morgantown, WV 26507
304-285-4042
Allen.lichvar@netl.dow.gov

Project Experience

Rachel Carson Building, Harrisburg, PA

- Replacement/modifications of the HVAC zone distribution ductwork, installation new VAV air terminals, control devices and ceiling diffusers - Current DGS project

Pennsylvania Army National Guard Facilities

- Crane - Renovation of 26,700 SF reserve center
- New Castle - Renovation of 23,000 SF Readiness Center
- Clearfield - Renovation of 49,760 SF Readiness Center

PA Farm Show Complex and Expo Center, Harrisburg, PA

- Various renovations throughout the 700,000 SF facility, including a new boiler plant

Franklin County Courthouse Complex, Franklin County, PA

- Renovation of the existing historic Courthouse, the Courthouse Annex and a new Courts Building, as well as renovations and additions to the existing County Administrative Annex, and construction of a new Archives Building - Current Project

Pennsylvania State Police, Greensburg, PA

- New 31,000 SF State Police Headquarters building with forensics unit and various types of lab spaces

GSA Erie Federal Building and Courthouse, Erie, PA

- Renovation to the historic building/new addition included the design of the replacement of the roof membrane, rain water leaders and roof drains

National Energy Technology Laboratory (NETL), Various Locations

- Indefinite Delivery-Indefinite Quantity (IDIQ) contract for NETL facilities in Morgantown, WV, Bruceton, PA, and Albany, OR - Facilities include 81 buildings on nearly 200 acres; projects included renovation and upgrades - Over 100 projects complete

H.F. LENZ
ENGINEERING

Resumes

Keith A. Gindlesperger, P.E.

Principal/Lead Civil Engineer

Mr. Gindlesperger is a Vice President of H.F. Lenz Company and leads our Civil Engineering Team. He has over 27 years' extensive experience in civil engineering, site planning and design for military bases, DOD projects and secure facilities. He is responsible for interfacing with the Client to review the program, budget, contractual matters, establish responsibilities and allocate personnel and firm resources. His responsibilities also include overseeing site design, site utilities, parking and traffic circulation, roadway design, stormwater management, erosion and sedimentation control and permitting.

Education
Bachelor of Science, Civil Engineering Technology, 1998, University of Pittsburgh at Johnstown

Experience
H.F. Lenz Company 1998 – Present

Professional Registration / Certification
Licensed Professional Engineer in PA, CO, FL, GA, ID, IN, MD, NV, OR, OK, TX, UT, VA, and WV

References
Tim Kirsch
Sr. Director, Capital Projects
Robert Morris University
1001 University Blvd.
Moon Township, PA 15108
412-397-6282

Andew Schwartz
Environmental Planning and Design
100 Ross Street, Suite 500
Pittsburgh, PA 15219
421-261-6000
AndrewSchwartz@epd-pgh.com

Project Experience

Pennsylvania Army National Guard Facilities
- New Castle - Renovation of 23,000 SF Readiness Center
- Clearfield - Renovation of 49,760 SF Readiness Center

Robert M. Ball Federal Building, Woodlawn, MD
- Complete renovation of the 1.2 million SF SSA Headquarters building - LEED Certified

Pennsylvania State Police, Greensburg, PA
- New 31,000 SF State Police Headquarters building

National Energy Technology Laboratory (NETL), Various Locations
- Civil/site design for building renovations and utilities projects at NETL sites West Virginia and Pennsylvania

SAIA Motor Freight Line LLC, Various States
- Principal-in-Charge of multi-discipline engineering services for new and renovated trucking terminals across the U.S. including recent project at Parkersburg, West Virginia

Commerce Crossing Industrial Park, Westmoreland County, PA
- New 256-acre industrial park including design of the infrastructure and creation of pad-ready sites to support large industrial type structures

United Parcel Service, Parkersburg, WV
- Evaluation and analysis of the existing pavement structure and design of a pavement management plan for the facility. Provided construction documents and construction observation services

FBI CJIS Division, New Biometrics Technology Data Center, Clarksburg, WV
- Open-End Task Order Contract for Architectural/ Engineering and Planning Services; projects to date have included office buildings, data centers, existing condition surveys, environmental assessments, geotechnical investigations, security improvements, conceptual designs, complete construction documents, construction administration services and commissioning services

Your **ACTIVE PE** renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until the noted expiration date may be detached and used unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. To use this license as a pocket card, please cut along the dotted line and laminate if desired.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

West Virginia State Board of Registration for Professional Engineers

300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free
www.wvpebd.gov

THIS IS ONE FORM OF YOUR RENEWAL RECEIPT

PLEASE SAVE THIS FOR YOUR RECORDS

Date of Renewal: December 23, 2024
Amount Paid: $63.00

KEITH A. GINDLESPERGER
841 VERLA DRIVE
WINDBER, PA 15963

H.F. LENZ
ENGINEERING

Resumes

David A. Blackner, P.E.

Structural Engineer

Mr. Blackner is responsible for the complete layout, design and detailing of building structural systems. He has diverse experience in the structural analysis and design of projects involving steel, engineered masonry, reinforced cast-in-place concrete, pre-cast/pre-stressed concrete and wood frame structures. He is proficient in multiple analysis platforms (STAAD, RAM Structural Systems, 3-D Analysis and Finite Elements). He also oversees structural coordination with other trades, as well as conducting periodic site visits related to the structural work.

Education

Associate, Mechanical Engineering Technology, 1988, Pennsylvania State University
Associate, Architectural Engineering Technology, 1988, Pennsylvania State University

Experience

H.F. Lenz Company 1998-Present

L. Robert Kimball & Associates 1995-1998

George D. Zamias Developer 1989-1995

Professional Registration / Certification

Licensed Professional Engineer in PA, CO, CT, DE, GA, ME, MD, MA, NY, and NC

References

Carl Rundquist, P.E.
PA DGS, Bureau of Pre-Construction
684 Lake Wilhelm Rd, Sandy Lake, PA 16145
717-346-5959
crundquist@pa.gov

Paul Rothgery
Project Manager
National Parks Service
12795 West Alemeda Parkway
Denver, CO 80225
303-987-6685
Paul_Rothgery@nps.gov

Project Experience

Fifth-Third Center, Charleston, WV
- New 66,000 SF D/B multi-tenant office building with a two-level parking deck

Mylan Pharmaceuticals, Morgantown, WV
- Multiple projects involving design for offices, warehouses, laboratories, clean rooms and storage space

BFS Companies, Morgantown, WV
- New 21,000 SF office building for BFS Food Stores

West Virginia University, Morgantown, WV
- New 54,000 SF Alumni Center
- Arnold Hall Boiler - three new natural gas-fired low pressure steam boilers with a steam capacity of 2,760 pounds per hour each
- Downtown Chiller Plant - Installation of a third and fourth 1,400-ton chiller with VFD, a free cooling heat exchanger system, fourth cooling tower, and associated electrical

BNY Mellon Center, Pittsburgh, PA
- Structural analysis and design for integration of a 32,000 SF Innovation Center into existing space on the 12th floor.
- Structural analysis of the 32nd floor framing to support new high-density files.
- Communications stair removal and design of structural steel and concrete floor infill on the 32nd floor

Mellon Client Service Center, Pittsburgh, PA
- Structural analysis and design for conversion of 11th floor data center to 26,000 SF of office space.

525 William Penn Place, Pittsburgh, PA
- Structural analysis and modifications to the existing 9th floor of this 41-story high-rise office building to accommodate new uninterruptable power supply (UPS) equipment.
- Partial slab and steel removal, design of new communicating stair and rated enclosure on floors 39, 40, and 41.
- Structural analysis of a portion of the 34th floor to accommodate a large safe and flat files.

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Patrick E. Thornton, AIA

President, **DRS Architects**
Partner, Sixmo Companies

Sixmo Companies
1101 Auburn Avenue
Cleveland, Ohio 44113
216-767-5400
patrick@sixmocompanies.com

Patrick Thornton is a proud graduate of Kent State University with over thirty years of experience in the design and construction realm. Patrick has a passion for client relationship development and maintenance that he can demonstrate on a wide breadth of project types. Through a broad range of experience, he has developed problem-solving skills that can be applied to any market or client type, from residential to commercial, municipal to industrial. A drive to constantly improve as a professional inspired Patrick to become a Master Plans Examiner.

Professional Reference:

Mayor Paul Koomar
The City of Bay Village
440-899-3415
pkoomar@cityofbayvillage.com

Education:

Kent State University
Bachelor of Science in Architecture, 1996

Current Registrations:

Architect, State of Connecticut
Architect, State of Florida
Architect, State of Illinois
Architect, State of Indiana
Architect, State of Kentucky
Architect, State of Maryland
Architect, State of Michigan
Architect, State of North Carolina
Architect, State of New York
Architect, State of Ohio
Architect, State of Oregon
Architect, State of Pennsylvania
Architect, State of Wisconsin
Architect, State of West Virginia
Building Code Plans Examiner
State of West Virginia
Master Plans Examiner, International Code Council
GBCI LEED Accredited Professional

Technical Organizations:

American Institute of Architects (AIA)
International Code Council (ICC)
National Council of Architectural Registration Boards (NCARB)
US Green Building Council (USGBC)

Featured Representative Personal Experience:

New Police Station /Firing Range | Bay Village, OH*
New Satellite Fire Stations | Stow, OH*
Municipal Service Facility | Chardon, OH*
Belmont College Burn Building | St. Clairsville, OH
Firing Range | City of Bedford Heights, OH

*Indicates a project that was completed while under the employment of another organization

Attached is your wallet card, evidence of your current registration to practice architecture in West Virginia. You will receive a renewal notice prior to the expiration date indicated.

Certificate No: [redacted]

SECRETARY

STATE OF WEST VIRGINIA
BOARD OF ARCHITECTS

[redacted]

Is duly Registered and entitled to practice as a
REGISTERED ARCHITECT
until and including 06/30/2025

Attest

President

Jon Funari, RA

Principal, DRS Architects
Project Manager

DRS Architects
One Gateway Center, 17th Floor
Pittsburgh, Pennsylvania 15222
412-325-8617
jfunari@drsarchitects.com

In over 40 years of professional practice, Jon has worked on a wide variety of project types with an emphasis on government, higher education, laboratories, and historic architecture. He has been responsible for all phases of the architectural process, managing and designing projects from programming through construction.

Jon is a principal at DRS Architects responsible for the performance of the organization and its resources as well as the quality of our services. Jon will serve as project manager for your project.

Professional Reference:
Erin Carpenter, Architect
U.S. Department of Justice
Federal Bureau of Investigation
304-625-4226
ecarpenter2@fbi.gov

Education:
Arizona State University
Master of Architecture, 1988
University of Virginia
Bachelor of Science in Architecture, 1983

Current Registrations:
Architect, State of Pennsylvania
Architect, State of West Virginia

Technical Organizations:
National Council of Architectural Registration Boards (NCARB)

Featured Representative Personal Experience:
PAANG 171st Air Refueling Wing Hanger Improvements | Coraopolis, PA
52,000 SF Secured Government Facility | WV
University of Pittsburgh, Chevron Science Center Lab Renovations | Pittsburgh, PA
Pennsylvania State Police DNA Analysis Laboratory Greensburg, PA
Department of Energy NETL Building 1 Renovation Albany, Oregon
Clarion University Stevens Hall and Moore Hall ADA Improvements | Clarion PA
Dartmouth College Life Sciences Center*
Hanover, New Hampshire

*Indicates a project that was completed while under the employment of another organization

JON FUNARI

Name:	FUNARI JON
Credential ID:	5059
Expiration Status:	Not Expired
Expiration date:	2025-06-30
Renewal Date:	2024-05-29
Disciplinary Action:	N/A

David Bostak RA

Senior Architect

DRS Architects
One Gateway Center, 17th Floor
Pittsburgh, Pennsylvania 15222
412-391-4850
dbostak@drsarchitects.com

David returned to DRS in 2024 after a brief hiatus to provide studio leadership and to bring his technical expertise to bear on our projects. He is a champion of technology in our industry, ensuring our team is leveraging its value on each and every task. As an advanced BIM user, David manages standards and education within our organization.

David is also a strong designer, developing solutions and carefully coordinating with both his in-house teammates and external consultants. His understanding of modern building systems and emerging technologies in the construction industry are evident in his well-crafted technical solutions.

Education:

- Virginia Polytechnic Institute and State University
  - Bachelor of Architecture, 1999
- Anne Arundel Community College
  - Associate in Arts, Cum Laude Honors, 1994
  - Tau Alpha Pi National Honor Society

Current Registrations:

- Architect, State of Pennsylvania
- LEED Accredited Professional

Technical Organizations:

- National Council of Architectural Registration Boards (NCARB)
- U.S. Green Building Council (USGBC)
- Autodesk University (2011/2020/2021)

Featured Representative Personal Experience:

- DGS Pennsylvania State Police DNA Facility
  - Greensburg, PA
- University of Pittsburg Salk Hall Renovations
  - Pittsburgh, PA
- DOE/NETL Building 34 Advanced Alloy Facility
  - Albany, Oregon
- DOE/NETL Building 30 Improvements
  - Albany, Oregon
- DOE/NETL Building 94 Lab Renovations
  - Pittsburgh, PA
- Clarion University Moore Hall
- Clarion University Stevens Hall
- Social Security Administration Tenant Improvements
  - Johnstown, PA
- UPMC Children's Hospital TV/Radio and Art Therapy
  - Pittsburgh, PA

TAB 4: PRIOR RELEVANT EXPERIENCE

WEST VIRGINIA ARMY NATIONAL GUARD – CAMP DAWSON

New Billeting Facilities

Kingwood, WV

Services
Mechanical, Electrical, Plumbing and Fire Protection

Completed
2009

Cost
$1 million

H.F. Lenz Company provided mechanical, electrical, plumbing and fire protection engineering services for the design of three new billeting facilities for West Virginia Army National Guard, Camp Dawson. The facilities were designed to resemble small, upscale hotels. Each facility consisted of eight sleeping rooms with full baths, a common gathering area with fire place, and a full kitchen. The project included the design of the heating, cooling, ventilation, lighting, power, fire alarm, tele-communications, fire protection, plumbing, and natural gas service. Each sleeping room had individual heating and cooling control.

The construction budget for this project was $1,000,000, which did not include site work.

Design services were completed in 2002.

H.F. LENZ
ENGINEERING

Relevant Experience

PENNSYLVANIA FARM SHOW COMPLEX

HVAC and Controls Renovations

Harrisburg, PA

Services
Mechanical, Electrical, Plumbing and Fire Protection

Square Footage
700,000

Completed
2021

Reference
Jason Morgenstern
Facilities Manager
Farm Show Complex
717-877-7026
jmorgenste@pa.gov

This renovation project included a comprehensive upgrade and extension of the HVAC controls throughout the 700,000 SF Facility. This included integrating the building's HVAC system into a single open control platform to properly manage all HVAC systems.

These upgrades included the following:

- Provided new controls on all new HVAC equipment
- Replacement of obsolete controls with new DDC controls
- Integration of all systems into one updated, consolidated system
- Required meetings with the facility staff to review each of several hundred HVAC components and systems to determine how to control each; how to integrate the controls into the upgraded DDC system; and how to represent each via graphics at the DDC workstation
- The controls are unique due to the special and flexible scheduling of events throughout the complex

H.F. LENZ
ENGINEERING

Relevant Experience

PENNSYLVANIA ARMY NATIONAL GUARD

New Castle Readiness Center Rehabilitation

New Castle, PA

Services
Mechanical, Electrical, Plumbing/Fire Protection, Civil and Structural

Square Feet
23,000

Completed
2018

Cost
$2.5 million

Reference
Matthew A. Dubovecky, EIT
Project Manager
PA Department of Military & Veterans Affairs
814-533-2466
c-mdubovec@pa.gov

Project with DRS Architects

DRS Services Provided
Architectural Design
Interior Design
Project Management
Engineering Coordination
Construction Administration

The New Castle Readiness Center consisted of two, two-story wings of the building with a one-story Maintenance Shop/Drill Hall which connects the two. The building is masonry type construction with stone, brick, and concrete block. Outside supporting facilities include military and privately-owned vehicle parking, fencing, sidewalks, access roads, and storage buildings as well as a vehicle maintenance facility.

H.F. Lenz Company provided the MEP/FP, civil and structural engineering services in collaboration with DRS Architects, providing architectural services, for the rehabilitation of the New Castle Readiness Center.

This project was focused on the Readiness Center or the main building. The size of the existing facility was approximately 23,000 SF. The facility houses approximately 120 soldiers from the 107th Field Artillery Battalion for the Pennsylvania Army National Guard. The original building was constructed in 1938 and housed the Calvary Units, which included administrative offices, stables, and a riding hall, which is now the Drill Hall.

The rehabilitation scope of work included:

- Exterior architectural improvements
- Interior architectural improvements
- Electrical upgrades consisting of new electrical service, new distribution equipment and panelboards throughout. New lighting and receptacle layouts are also included as part of the renovation. Fire alarm system and emergency lighting will be updated throughout the building, and a connection for a future generator will be incorporated into the design.
- HVAC work included replacement of two existing steam boilers with two high-efficiency gas boilers; the addition of energy efficient air-conditioning systems for office, classrooms, fitness rooms and other areas; the addition of a new kitchen exhaust hood; and the integration of a new web-based DDC control system. All plumbing fixtures and piping systems throughout the building were replaced as part of the toilet facilities upgrade. Electrical work included upgrades to the distribution system; LED interior lighting throughout the building; new site lighting; replacement of branch panelboards, conduit, and feeders; and a new building wide addressable fire alarm system.
- The plumbing scope of work includes replacing water heaters, providing a new domestic water service and piping, updating the sanitary sewer and vent piping, modifying the natural gas service and piping to accommodate the increased loads, renovations to the toilet rooms and shower rooms throughout the building, and providing new roof drains.

H.F. LENZ ENGINEERING

Relevant Experience

PENNSYLVANIA ARMY NATIONAL GUARD

Crane Readiness Center Rehabilitation

Pittsburgh, PA

Services
Mechanical, Electrical, Plumbing/Fire Protection, Communications and Structural

Square Footage
26,700

Completed
2018

Cost
$3.1 million

Reference
Matthew A. Dubovecky, EIT
Project Manager
PA Department of Military & Veterans Affairs
814-533-2466
c-mdubovec@pa.gov

Project with DRS Architects

DRS Services Provided
Architectural Design
Interior Design
Project Management
Engineering Coordination
Construction Administration

H.F. Lenz Company provided the MEP/FP, communications and civil engineering services in collaboration with DRS Architects, providing the architectural services, for the renovation of the Crane Readiness Center which houses 250 soldiers of the 128th Brigade Support Battalion, PA Army National Guard.

The existing facility was a 26,700 SF, two-story Reserve Center of permanent masonry type construction, brick and concrete block units with concrete floors, and a built-up or membrane roof system. The scope of work for the project included:

The rehabilitation scope of work included:

- HVAC & electrical system evaluation and improvements
- Bathroom rehabilitation/installation of low-flow fixtures
- American with Disabilities Act compliance upgrades
- Code compliance upgrades
- Bituminous pavement demolition/replacement/expansion
- Chain-link fencing and gates
- Exterior lighting
- Antiterrorism/force protection requirements around the perimeter of the property
- Masonry re-pointing
- Emergency generator supporting up to 35% of facility's load requirements
- Construction of a 3,000 to 5,000 SF heated storage building equipped with supply caging
- Parking lot lighting
- Roof replacement
- Elevator installation

Mechanical, plumbing, and electrical work mainly involved the replacement of existing systems, such as heating boilers, exhaust fans, maintenance shop vehicle source-capture exhaust reels, water heater, plumbing fixtures, emergency generator, and electrical distribution panels. New lighting was also provided in the office wing corridors resulting from the necessary abatement and replacement of the existing plaster ceilings in those areas. Several rooms were remodeled for new programming needs to include architectural, electrical, IT and HVAC improvements.

This facility also houses a weapons vault which will be equipped with an electronic Entrance Security System (ESS).

H.F. LENZ
ENGINEERING

Relevant Experience

YMCA

New Thelma Lovette YMCA

Pittsburgh, PA

HFL Services
Mechanical, Electrical, Plumbing & Fire Protection

Square Footage
44,000

Completed
2012

Cost
$10.6 million

Reference
Aaron Gibson
Executive Director
Thelma Lovette YMCA of Greater Pittsburgh
412-227-3800
agibson@ymcapgh.org

H.F. Lenz Company provided the mechanical, electrical, plumbing and fire protection engineering services in collaboration with DRS Architects for a new 44,000 SF recreational facility with gymnasium, fitness center, indoor track, multi-purpose rooms, computer lab, daycare, offices and swimming pool. The project features a green roof that serves as a playground and event area.

For many generations Pittsburgh's Hill District fed our nation's cultural development just as the nearby steel mills fueled her industry. Important new directions in American music, painting, theater, and dance were rooted in this community until redevelopment in the 1960's and the collapse of the steel industry introduced an economic blight that has continued to this day.

A venue for both fitness activities and social services, this full-service YMCA includes a gymnasium, swimming pool, exercise rooms, indoor track, multi-purpose rooms, computer lab, daycare facility, outdoor playground, public plaza, offices and support spaces. Its design incorporates advanced environmental practices and exploits natural site conditions to enhance energy performance. Furthermore, the functional arrangement and expression of spaces provide urban design amenities consistent with the prescribed goals of the neighborhood master plan.

The building achieved LEED Silver accreditation.

Project with DRS Architects

DRS Services
Architectural Design
Interior Design
Project Management
Construction Administration

H.F. LENZ ENGINEERING

Relevant Experience

FORT LARNED NATIONAL HISTORIC SITE

Restoration/Rehabilitation of Commanding Officer Quarters

Larned, KS

Services
Mechanical, Electrical, Plumbing

Square Footage
2,068

Design Completed
2024

Construction Budget
$679,246

Reference
John Rosemurgy
Historical Architect
National Park Service
25970 Red Jacket Road
Calumet, MI
906-231-5223
John_rosemurgy@nps.gov

H.F. Lenz Company provided the multi-discipline engineering services for this task order under a term contract for interior restoration of the 1867 Commanding Officer Quarters at Fort Larned National Historical Site in Larned, Kansas. The project involved professional services for design development and construction documents to restore the first floor interior of the Commanding Officer Quarters to serve as a visitor attraction featuring exhibits with museum collections. The project is part of the park's long range interpretive plan for restoration of the Commanding Officer Quarters interior to reflect its original use during the Fort's period of significance (1868 – 1870).

The engineering project scope included:

- Reconfigure mechanical ductwork and replacement of outdated heating, cooling, and ventilation equipment
- Revise plumbing system to include basement sump pump and possible installation of a utility sink for museum housekeeping
- Examine existing electrical service and upgrade distribution and devices to support the building's new function
- Design completed in accordance with applicable codes and National Park Service standards

Integrated design principles employed included:

- Use of a collaborative planning and design process that maintained an integrated project team throughout all project phases
- Establishment of performance goals for energy, water, materials, and indoor environmental quality
- Consideration of every stage of the building's lifecycle, including deconstruction

The project met federal sustainability requirements represented in the National Park Service Project Sustainability Checklist template.

STATE OF WEST VIRGINIA

Clarksburg State Office Building

Clarksburg, WV

Services
Mechanical, Electrical, Plumbing and Fire Protection

Square Footage
85,250

Completed
2016

Cost
$20 million

Accreditations
LEED Silver Certification

Reference
Mr. David Hildreth
State of West Virginia
1409 Greenbrier Street
Charleston, WV 25311
PH: 304-558-0510

H.F. Lenz Company provided the mechanical, electrical, plumbing, fire protection, and telecommunications engineering services for the design of a new 85,250 SF five-story office building to house seven West Virginia state agencies.

The HVAC system utilizes a chilled water system with ice storage to save energy costs. The majority of the building is served by three VAV modular air handling units located in the building penthouse. A Direct Digital Control (DDC) System provides the control for the HVAC system. The system interfaces with the current system that the State of West Virginia uses to monitor its buildings from a remote location in Charleston, WV.

Lighting relay panels provide 24/7 control of the lighting in the larger areas on the various floors. Relay panels are installed on all floors except the basement. Vacancy (Occupancy) sensors are installed in all areas not described above to provide automatic shut off lights. In areas subject to larger amounts of natural light, daylight harvesting sensors are placed near windows to step-dim (reduce light output to 50%) local light fixtures in response to amount of sunlight present within the space and save energy.

A Main Telecommunications Room (MTR) is provided that houses all the service entrance equipment for signal system demarcation points as well as distribution equipment to provide the buildings signal infrastructure. Intermediate Telecommunications Rooms (ITR), feed from MTR, are constructed on each floor and contain equipment to distribute signal systems to the end user.

The project was designed to achieve LEED Silver Certification. State agencies began moving into the new building in 2016.

Meeting the Project Goals
An important goal of the project was to provide an energy efficient, state-of-the-art facility with sustainable design features capable of achieving LEED Silver Certification. H.F. Lenz Company helped meet this goal by designing an HVAC system that utilizes a chilled water system with ice storage to save energy costs. The lighting system design also contains several energy conserving elements.

H.F. LENZ ENGINEERING

Relevant Experience



FRANKLIN COUNTY ARCHIVES STORAGE FACILITY

Archive Storage Renovation and Expansion

Chambersburg, Franklin County, PA

Services
Mechanical, Electrical, Plumbing/Fire Protection

Completed
2019 - Phase I
2022 - Phase II

Cost
$2.4 million - Phase 1
$1.2-1.5 million - Phase 2

Reference
Ms. Carrie Gray
County Administrator/Chief Clerk
272 North Second Street
Chambersburg, PA
Phone: 717-261-3810

H.F. Lenz Company provided full mechanical, electrical, plumbing and fire protection engineering services for the Franklin County Archives Building, the renovation and expansion of which was part of a larger project which renovated the existing historic Courthouse, a new Justice Center, and a new separate County Administration building. The Archives project repurposed an existing used car and automobile maintenance facility into a modern County Archives Building, complete with a large records storage area, offices, receiving area, the County-wide data center, and a historic document storage vault with specialized environmental controls.

The project was completed in two phases.

Phase 1:

- Phase 1 of the project was completed in October 2019
- The HVAC included DX/Gas single zone units and VRF systems with energy recovery ventilation
- Natural gas fired backup generator for the entire building
- Double interlock pre-action sprinkler system for records storage and support areas
- Clean agent fire protection system for the data center, with supporting purge/ exhaust system
- County wide building automation system head end equipment was incorporated into the data center

Phase 2:

- Phase 2 of the project was completed in February 2022
- Office area HVAC included VRF systems with energy recovery ventilation
- HVAC for archival storage included precision cooling, summertime humidity controls, and wintertime ultrasonic based humidification system
- Reverse osmosis water treatment for humidifier make-up
- Double interlock pre-action sprinkler system for archival storage

H.F. LENZ ENGINEERING

Relevant Experience



CITY OF READING

City Hall HVAC Evaluation and Design

Reading, PA

Services
Mechanical, Electrical, Plumbing, Fire Protection

Cost
$2.5 million

Reference
David W. Anspach III
Capital Projects Manager
City of Reading
David.Anspach@ReadingPa.gov
o. 610-655-6502
c. 610-301-2728

H.F. Lenz Company is currently providing the mechanical, electrical, plumbing and fire protection engineering services for the evaluation of the City Hall HVAC system, design engineering services, technical specification preparation, and construction management services.

Phase 1 of the project involved the evaluation of all aspects of the HVAC system, including:

- Full review of Heat and Cooling systems
- Recommendation on alternative systems
- Design Engineering of replacement systems where necessary
- Zoned thermostatic control
- Automatic operating control- alternate heating or cooling as necessary
- 100% duct cleaning, replacement, or new where necessary
- O&M manual to include future maintenance schedule documents
- Energy Efficiency
- User Friendly
- Covid-19 or contagion prevention

We are currently working on Phase 2 of the design which will include a significant number of phases due to the need for the building to remain fully occupied throughout construction.

H.F. LENZ
ENGINEERING

Relevant Experience



CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES

Bridgeport Correctional Center Energy Audit Implementation Program

Bridgeport, CT

Services
Mechanical, Electrical, Plumbing, Fire Protection

Square Footage
102,800

Completed
2023 Design
12/25 Construction

Cost
$4 million

Reference
Brian Dillon
Deputy Director
Judicial Branch Facilities
860-706-5272
brian.dillon@jud.ct.gov

As a Task Order under an On-Call Contract H.F. Lenz Company provided MEP engineering services to implement Energy and Cost Reduction Measures (ECRMs) identified in a 2020 Energy Audit Report. The scope of the project included the New Center and Memorial Unit, accounting for 102,800 SF within the complex. The modifications and upgrades are intended to result in annual reductions of 482 metric tons of COe2 emissions, $161,067 in utility costs, and 7,446,000-gal of water usage.

Elements of the project included:

- Replacement of two existing steam boilers with high efficiency condensing hot water boilers
- Upgrade to high efficiency fan motors on heat-vent units and supply and return fans
- Design for new DDC building automation system to serve both buildings
- Design of a computerized water conservation system and integrate with building plumbing fixtures
- Design variable speed drives and demand control system on kitchen hood fans
- Replace domestic hot water heaters in Memorial Unit
- Replace water-cooled cooler compressors with air-cooled compressors
- Replace existing interior and exterior lighting with LED fixtures

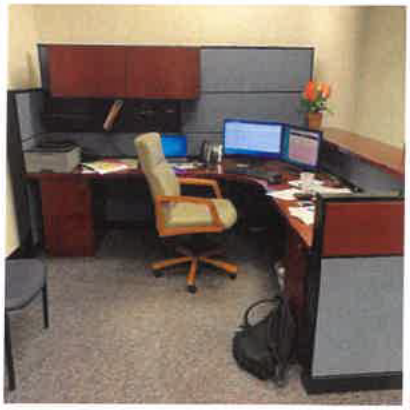
A means for measuring and verifying the proposed savings and emissions reductions at 6,12, and 18 months after construction will be provided. Design of the project is complete with construction to be determined by the facility's priority list.

Relevance to Contract: Sustainable building system design including energy, water, and GHG emissions.

H.F. LENZ ENGINEERING

Relevant Experience





RACHEL CARSON BUILDING

HVAC Upgrades - PA DGS Project

Harrisburg, PA

Services
Mechanical, Electrical, Plumbing/Fire Protection

Square Footage
420,125

Completed
1992 - original design
HVAC upgrades - current project

Cost
$31 million (current project)

Reference
Steven Knapik
PA Department of General Services
18th & Herr Street
Harrisburg, PA 17120
717-787-5942

H.F. Lenz Company provided the mechanical, electrical, plumbing and fire protection engineering for the design of the original 17-story, 420,125 SF office building under a previous DGS contract in 1992. The building houses multiple government agencies.

The mechanical, electrical, and interior systems were designed for flexibility and energy conservation. The original building design provided comfort and flexibility for the office floors. The system utilized hot water for heating and chilled water for cooling. Two central VAV AHU's serviced the majority of medium pressure, duct riser serving each floor. Return was routed from the ceiling plenums to the return air shafts and back to the AHU's moduline diffusers to provide the variable air volume to the floors.

In 2024, H.F. Lenz Company was retained to provide the engineering services for HVAC upgrades throughout the building. The facility's existing HVAC system had undergone small incremental improvements of various components including a partial upgrade to the automatic temperature controls, however most of the systems were original to the building. The primary purpose of this project is to replace the existing modular air terminals and modify the distribution ductwork to incorporate the use of single duct VAV air terminals and/or fan powered VAV air terminals to better condition the spaces and provide control of the space conditions.

Additional related scope will include the following:

- New ceiling grid and tile
- New LED lights
- Lighting controls and all new HVAC components will be integrated into the facility's digital Building Automation System
- Minor modifications or relocations of sprinklers as necessary to coordinate the installation of new HVAC components
- Existing ceiling mounted fire alarm devices shall remain active, temporarily supported and reinstalled
- Existing ceiling mounted security and surveillance devices shall remain active, temporarily supported and reinstalled

The project includes a detailed phasing plan to relocate multiple floors of occupants throughout construction so the building can remain operational.

H.F. LENZ ENGINEERING

Relevant Experience

NATIONAL ENERGY TECHNOLOGY LABORATORY

Building 1 - Phased Renovation of Four-Story Building

Morgantown, WV

Services
Mechanical, Electrical, Plumbing and Fire Protection

Square Footage
51,000

Completed
2017

Cost
$3,700,000 - Phase 1
$5,544,000 - Phase 2

Reference
Mr. Allen K. Lichvar
U.S. Department of Energy
National Energy Technology Laboratory
304-285-4042
allen.lichvar@netl.doe.gov

H.F. Lenz Company provided multi-discipline engineering services through our second consecutive Indefinite Delivery, Indefinite Quantity (IDIQ) for NETL sites in Bruceton, PA, Morgantown, WV, and Albany, OR. In total, NETL's facilities include 81 buildings and 14 major research facilities on nearly 200 acres. We have completed more than 70 work orders including a Facilities Assessment Project (71 Buildings) on the Pittsburgh and Morgantown Campuses and various building systems upgrades on all three campuses.

This project involved the phased renovations of the four-story, 51,600 SF Building 1 located in Morgantown, WV. The government fully occupied those portions of the building not under renovation. The building alterations incorporated the High-Performance Sustainable Building Guidance Principles.

Constructed in 1952 and renovated in 1992, the building accommodates a variety of office functions. With changes in usage and consolidation of services, the floor layouts were reconfigured into private offices and open office cubicles utilizing an inventory of existing open office system components. This modification increased the corridor width, which provides a more open public circulation flow both visually and physically, reducing the "tunnel effect" of long corridors.

Mechanical system upgrades included replacement of four air handling units with modular, double wall, indoor air handling units which include a full airside economizer, two steam-to-hot water shell and tube heat exchangers, and replacement of building chilled water piping.

Plumbing changes include replacement of all vertical water, waste and vent piping. Rainwater harvesting was analyzed but was not incorporated due to the high cost of the system.

The existing main switchgear distribution was replaced. Existing lighting fixtures, previously replaced under an energy management plan, were removed, stored, inventoried, relamped, and reinstalled. Energy management features occupancy sensors, daylighting and time clock control.

H.F. LENZ ENGINEERING

Relevant Experience

WEST VIRGINIA UNIVERSITY

Multiple HVAC Project Upgrades

Morgantown, WV

Services
Mechanical, Electrical, Plumbing, Fire Protection, Commissioning, Civil, Structural

Completed
Various Dates

Cost
Varies

Reference
Zenaba Qadeer
Construction Manager
West Virginia University
PH: 304-276-7364
Zenaba.qadeer@mail.wvu.edu

H.F. Lenz Company has provided multi-discipline engineering services for West Virginia University for over 25 and has held seven term contracts, which have included AHU System upgrades, HVAC System Replacements, and other various facility upgrades.

A few of our projects have included:

- Towers Dormitories: Four-building high-rise complex housing 1900 students located on the WVU Evansdale Campus. Three 5,000 cfm AHUs
- Woodburn Hall: Four-story historic building built in 1874 located at the WVU Downtown Campus. Two 11,000 cfm AHUs
- Creative Arts Center: Home of the College of Creative Arts, this building was built in 1969 and contains 50 classrooms, numerous studios, and a 1,400-seat concert theater. Six AHUs
- Charles Wise Library: Replacement of seven AHUs and addition of two new central stations as part of 124,000 SF addition and 86,000 SF renovation
- Chemistry Research Laboratory: Five-story building located at the WVU Downtown Campus. Two 40,000 cfm AHUs
- Mountainlair AHU 5 replacement
- Clark Hall AHU 15 sequencing
- Armstrong Hall AHU 1 and 2 replacement
- Chitwood Hall AHU replacements
- Lyons Tower AHU J and Q replacement
- Brooke Tower AHU 7 replacement
- Student Recreation Center Steam Line Relocation
- Wise Library Special Collections HVAC Evaluations
- Chilled Water Line Extension to Admissions & Records Building, Eiesland Hall
- Pettito Building Structural Condition Assessment
- Evansdale Cooling Tower Replacement
- Communications Building Print Shop HVAC Evaluation
- Communications Building HVAC Retrofit
- Chemistry Building Lab Exhaust Upgrades and AHU Replacement
- Fieldcrest Roof Top Unit Air Handler Replacement
- Demolition of Beechurst Boiler Plant
- Conversion of Former Medical Center Boiler Plant for Use by the University's Grounds Department
- Potomac State College's Church-McKee Arts Center Chiller Replacement
- Commissioning Services for White Hall Chiller Plant

WEST VIRGINIA UNIVERSITY

Multiple HVAC Project Upgrades

Eiesland Hall HVAC Renovation

Built in 1954, Eiesland Hall is a 60,000 SF general purpose classroom building located on the Downtown Campus of West Virginia University. For this project, H.F. Lenz Company provided Mechanical, Electrical, and Plumbing/Fire Protection engineering services to renovate the third and fourth floors into classrooms.

The scope of work included the following:

- Extended chilled water from campus central chiller plant to the building to shift load from less efficient building chillers to more efficient central chilled water plant. New controls were installed to measure building chilled water flow and regulate campus flow to help maintain building delta T
- Replaced two constant volume, multi-zone air handlers with a single new variable volume air handling unit and converted air distribution system to variable air volume. New DDC Air Handler controls were incorporated to control scheduling and discharge air temperature and airflow control.
- Designed a new hot water system (produced by campus steam) to serve VAV box reheats and perimeter heating. Control system designed to maintain hot water system temperature and variable speed pump flow setpoints.
- Renovated third and fourth floors to provide three 30-seat classrooms and one 20-seat classrooms on each floor.

Engineering Sciences Building Renovation

H.F. Lenz Company provided mechanical, electrical, plumbing, and fire protection engineering services for the renovations to the basement level of the Engineering Sciences Building. The renovated area consists of approximately 24,000 SF, and houses mixed offices, wet and dry laboratories, classrooms and graduate study spaces.

The project involved removing the existing mechanical system and replacing with a new system capable of providing the heating, ventilation and air conditioning requirements of the spaces. A variable flow refrigerant cooling system is being utilized for five of the laboratories with intensive cooling loads. As a result of the mechanical renovations, the project also includes the removal & replacement of ceilings, light fixtures and other systems affected, along with general aesthetic upgrades.

Construction was phased to allow partial occupancy of the building.

H.F. LENZ
ENGINEERING

Relevant Experience

WEST VIRGINIA UNIVERSITY

Multiple HVAC Project Upgrades

Arnold Hall Boiler System Replacement

This boiler system replacement project included three new natural gas-fired low pressure steam boilers with a steam capacity of 2,760 pounds per hour each. Also included was a boiler feedwater package unit, blowdown separator, chemical feeders, water softening equipment, condensate pump units, steam piping and a boiler room combustion air intake and ventilation system.

The design of the new boiler system had to adhere to the following:

- Size the boiler system for redundancy equal to a minimum of (N+1)
- Size the required piping, condensate receivers, de-aerator, chemical treatment, pumps, and associated equipment. Include modifications to PRVs to accommodate new low pressure steam generation
- Ensure the new boiler room is of adequate size and determine what additional modifications are needed to satisfy all operational, safety, and code requirements, including new walls, doors, pads, exits, and access details
- Incorporate demo/abandonment of 3 existing manholes
- Life safety additions to the building

Stansbury Hall Retrofit

H.F. Lenz Company provided mechanical and electrical design services for the retrofit of Stansbury Hall at West Virginia University. The approximately 80,000 SF building houses a gymnasium, offices, and classrooms. Its existing HVAC system consists of fan coil units and one rooftop unit.

The new system was designed to utilize an existing 8-ft. high space above an existing ceiling to create a new mechanical equipment area. The design incorporated five new air handling units—two to provide ventilation air to the gymnasium and its adjacent spaces; two to provide air conditioning and heating to the office areas; and one to provide ventilation air to supplement the fan coil units in the classroom wing.

Additionally, H.F. Lenz Company's plan included the installation of an air-cooled chiller and electric service with panels to feed all the new mechanical equipment.

Relevant Experience

POTOMAC STATE COLLEGE

Science Hall Renovation

Keyser, WV

Services
Mechanical, Electrical, Plumbing and Fire Protection

Completed
2015

HVAC Upgrades
H.F. Lenz Company provided mechanical and electrical engineering services for upgrades to the existing HVAC system serving this 57,000 SF science and classroom building. The mechanical design consisted of new VAV boxes in classrooms and labs, demolition of bladders in the existing Moduline diffusers, replacement of VAV boxes serving labs, and installation of three-way ATC valves to provide better control to perimeter heat. The electrical portion of the project included demolition and new power to the replacement lab VAV boxes with electric reheat, and new control power to classroom and office supply dampers and ATC valves.

Elevator Upgrades
The elevator was original to the building and was in need of modernization to bring it up to current standards and codes. The project included the design of the following: Mechanical cooling (split system) for the elevator machine/control room; shaft ventilation upgrades; new power feeds for elevator motor and elevator controls; upgrades to fire/smoke detection and elevator safety systems as required to comply with current codes; upgrades to the machine room and shaft lighting and convenience receptacles; upgrades to the elevator pit sump pump drainage system; and upgrades to the sprinkler system to provide sprinkler heads where required by current codes.
Construction administration services were provided for both projects.

Relevant Projects

DRS Architects is one of the oldest practicing architectural and planning firms in the region; we have been located in Gateway Center in downtown Pittsburgh, Pennsylvania for over sixty years. The firm enjoys a long-standing reputation for design, management of the design process, control of project costs and schedules, and excellent service to our clients.

Through the years the firm has enjoyed a solid reputation for design achievement having received over 50 design and technical awards including a national AIA award and numerous state and local awards.

- The firm received the very first Owens-Corning Fiberglass Award for Energy Conservation and also received national recognition with a High Honor Award for the design of the High Temperature Materials Laboratory at the Oak Ridge National Laboratory for the U.S. Department of Energy.
- DRS received a 2004 Citation Award from the American Association of School Administrators / American Institute of Architects / Council of Educational Facility Planners International for the Science, Technology & Cultural Center for Butler County Community College.

DRS Emphasizes strategies for sustainable design, site development, water savings, energy efficiency, materials selections and indoor environmental quality. DRS has completed multiple LEED certified projects.

On the following pages you will find individual examples of projects we designed that are relevant to your project. They also demonstrate a long history of work in office environments.

McCandless Crossing Office Building

Pittsburgh, Pennsylvania

DRS has been working with North Carolina based AdVenture Development on a 130-acre site ten miles from the heart of downtown Pittsburgh. We have investigated various proposed uses for parcels both within and outside the emerging Town Center with multi-story residential buildings (including integral structured parking) and a new Hotel. Our primary focus, however, has been the schematic design including cost analysis for a new speculative office building of 80,000 to 120,000 SF.

Our initial analyses included parking/building area test-fits and investigations exploring building visibility from the adjacent thoroughfare. A detailed zoning and building code analysis was simultaneously performed, and DRS coordinated our design decisions with construction cost data concurrently developed by the construction managers. After several quick discussions and design iterations, DRS generated marketable graphics packages in consultation with AdVenture, their construction managers and local leasing agents. Currently, McCandless Crossing is marketing our design for a 88,000 SF, four-story structure with associated surface parking of over four spaces per 1,000 SF of floor area. Our latest design scheme which has eliminated integrated, ground level covered parking, anticipates proceeding through the detailed design and construction phases this Spring, irrespective of any pre-leasing commitments from future tenants.

DRS Services Provided

Project Management
Site Planning
Architectural Design
Interior Design
Space Planning
Construction Administration

Construction Cost

$50,000,000

Construction

n/a

Contact

Kevin Dougherty
AdVenture Development, LLC
111 East Oak Street
Selma, North Carolina 27576
919.965.5661
kmd@adventuredev.com

Next Tier Connect

Monroeville, Pennsylvania

In the 1970s, Westinghouse Electric Corporation commissioned DRS to design a master plan for what was, at the time, their largest office complex, on almost 200 acres of property. DRS subsequently designed the five-story, 350,000 SF office building for 1500 employees involved in the development of the company's nuclear fuel and reactor systems. In 1984, DRS designed a new 225,000 SF five-story addition that allowed Westinghouse to accommodate an additional 1000 employees. In 2019, DRS was invited back by the new owners of the campus, Next Tier Real Estate Investors, to revitalize the building for potential office tenants. DRS created a master plan for public amenities, designed a system of interior signage and way finding, and designed the conference center and management office renovations.

Amenities include a first-class fitness center with locker rooms, break-out spaces, a cafe and dining space, and various flex spaces. Due to the large size of the campus, way finding was needed; DRS designed a system of clear, concise, and aesthetically appropriate signage for navigation. DRS also reimagined and converted the existing former auditorium into a contemporary conferencing center capable of handling multiple set-ups and various meeting types. The Center includes 2,250 SF of meeting space divisible into three distinct rooms, each with their own technology capabilities, several breakout spaces where people can take a call, work, or just connect to the outside through the large windows.

DRS Services Provided
Project Management
Architectural Design
Interior Design
Space Planning
Construction Administration

Construction Cost
Withheld by Owner

Construction
2020

Contact
Alex Warren, Managing Director
Senior Property Manager
Next Tier Connect
Pittsburgh East
412.357.2337
Alex.warren@officetechpm.com

Bank of New York Mellon

Pittsburgh, Pennsylvania

Since 2007, DRS Architects has worked with BNY Mellon to manage renovations for many of their facilities in Western Pennsylvania, including their headquarters tower in downtown Pittsburgh. Over 1,750,000 SF of space has been renovated, including projects that have achieved LEED certification. Individual projects range from small 1,700 SF renovations to 109,000 SF demolition and build-out of office and open-office floors. To date, over 100 restrooms have been upgraded to comply with ADA. Projects are always fast-tracked; during construction DRS is on site with timely answers to important questions that may arise.

DRS recently assisted BNY Mellon with the consolidation, planning, and design effort to relocate thousands of employees from one building to another. Nearly 4,000 BNY Mellon employees located in 500,000 SF of space have been relocated over a three-year period under 28 different projects. At the same time, DRS was engaged to provide interior design services for the renovation of their Conference Center located at BNY Mellon Center, consisting of a reception area, lounge space, restrooms, touch down space, and seven conference rooms, encompassing over 7,000 SF of space. The design included replacing room fronts with glass walls, new finishes and casework, soft seating, and coordination of engineering and audio visual.

Since completion of these major renovations and moves, BNY Mellon has engaged DRS for additional projects, a testament their satisfaction with our dedicated project team. Today, DRS continues to provide architectural services on additional floor renovations.

DRS Services Provided

Architectural Design
Interior Design
Space Planning
Project Management
Construction Administration

Construction Cost

Withheld by Owner

Construction

Ongoing

Contact

Respecting BNY Mellon's Corporate Policy, a reference is not available.

Leech Tishman Renovation

Pittsburgh, Pennsylvania

Leech Tishman, one of the fastest growing Pittsburgh law firms, was in need of additional space. The firm is known for its sustainable approach to business and is one of the "greenest' law firms in the Pittsburgh region.

The option to move from the 30th floor of 525 William Penn Place to the 28th and 29th floors (the former Citizens Bank Corporate offices) brought Leech Tishman to DRS in order to explore this opportunity. The existing 28th and 29th floor layouts consisted primarily of open office space, allowing the daylight to enter. In contrast, Leech Tishman required a more office intensive environment; the need for visual orientation and a sense of daylight as you moved though their new space was important. Leech Tishman wanted the light, contemporary image of the lobby to express their corporate culture. The corridors which provide interior circulation were dark, a stark contrast to the entry. Through the use of light and color, and the repeated use of existing architectural vocabulary, DRS was able to provide a sense of orientation and interest in formerly dark circulation paths.

DRS planned the space to allow for the reuse of existing storefront and casework throughout the space, and worked with their existing furniture to meet their functional needs. A schedule was structured including fast track milestones to meet the relocation timeline. DRS developed a written space program outlining basic requirements for space including offices, open office workstations, conference rooms, break and copy rooms as well as other support space. Organized by practice group, required adjacencies and proposed expansion were both taken into account. Special requirements for mechanical, electrical, plumbing and information technology systems were taken into consideration.

DRS completed field verification of existing conditions and investigated the viability of reusing some of the existing systems, finishes and furniture. DRS developed a new interior design concept to improve the space for Leech Tishman and their future needs. DRS developed furniture layouts for the common spaces, support spaces and workstations.

While the landlord had provided a generous build-out allowance, additional funds for the project were limited. DRS worked closely with the Client to prioritize a list of project alternates that could be eliminated from the project should budget issues limit the scope. Based on approved preliminary budgets and planning, DRS developed the construction documents necessary to reliably estimate, construct and close out the project.

DRS Services Provided
Interior Design
Space Planning
Project Management
Construction Administration

Construction Cost
Withheld by Owner

Construction
Completed in 2013

Contact
Kenneth Foltz Sr., Attorney
Leech Tishman
525 William Penn Plance
28th and 29th floors
Pittsburgh, Pennsylvania 15219
412.261.1600
kfoltz@leechtishman.com

FBI Field Office

Pittsburgh, Pennsylvania

DRS was part of the Design/Build Team which was chosen by the GSA and FBI for this new standalone 160,000 SF FBI Field Office. This facility increased SF, improved efficiency and upgraded security.

The four-story facility contains an entry at the first floor along with parking on Levels 1 and 2 for 160 vehicles. Levels 3 and 4 provide 82,000 SF of usable space for the FBI's offices. In addition to office space, the building contains conference facilities, lounges, press room and fitness facility; interview, complaint, fingerprinting, polygraph and detention rooms as well as suspect interrogation rooms and a sallyport. The facility features state-of-the-art security systems to maintain a 100' standoff distance and vehicle barrier. The communication system provides contact with local, state and federal agencies as well as response to emergency situations within its region.

In 2007, DRS completed architectural/engineering services for 18,500 SF interior renovations on the third and fourth floors of the building. The scope of work included providing four areas within the building that are audibly secure from adjacent areas as well as from the exterior. These areas required new stud wall construction, redesign of circulation, replacing construction materials that compromise the program requirements, coordination of mechanical & electrical details to meet program requirements that will provide a secure environment for these Sensitive Compartmented Information Facilities (SCIF).

DRS Services Provided
Architectural Design
Interior Design
Project Management
Construction Administration

Construction Cost
$14,600,000

Construction Completed
2007

Contact
Ms. M. Frances Kern
Project Manager, FBIHQ
935 Pennsylvania Avenue, NW
Room WB950
Washinton, DC 20535
202-324-4285

North Fayette Township Community Center

Oakdale, Pennsylvania

The New Community Center provides residents of a growing North Fayette Township with a much needed public recreation center and gathering place. This 30,000 square foot, state-of-the-art facility includes a gymnasium, elevated indoor running track, exercise room, children's education center, community rooms, administrative offices, locker rooms, lounges, support spaces, and an upper floor banqueting suite with an adjoining roof terrace.

Designed to accommodate nearly 200 guests, the banqueting suite overlooks the outdoor activity fields in the surrounding community athletic complex. The combined resources of this new facility have been tailored to meet a strict budget and the present demands of the community for services. However, should circumstances change in the future, the building has been planned to accommodate a 50% expansion, including an additional full size gymnasium.

DRS Services Provided
Architectural Design
Interior Design
Project Management
Construction Administration

Construction Cost
$4,500,000

Construction Completed 2016

Contact
Robert Grimm, Township Mgr
North Fayette Township
724.693.3103
rgrimm@north-fayette.com

TAB 5: SIGNATURE PAGES

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
Architect/Engr

roc Folder: 1693133

oc Description: Architectural/Engineering Services for PSC HQ HVAC Upgrade

roc Type: Central Contract - Fixed Amt

Reason for Modification:

te Issued	Solicitation Closes	Solicitation No	Version
25-05-23	2025-06-12 13:30	CEOI 0926 PSC2500000001	1

D RECEIVING LOCATION

D CLERK
PARTMENT OF ADMINISTRATION
RCHASING DIVISION
19 WASHINGTON ST E
ARLESTON WV 25305

NDOR

ndor Customer Code:

ndor Name : H.F. Lenz Co.

ddress : 1407

reet : Scalp Avenue

ty : Johnstown

ate : PA **Country : United States** **Zip : 15904**

incipal Contact : Thomas F. Deter, President

ndor Contact Phone: 814-269-9300

R INFORMATION CONTACT THE BUYER

y D McDonnell
-558-2063
y.d.mcdonnell@wv.gov

dor
nature X **FEIN# 25-1007465** **DATE June 11, 2025**

offers subject to all terms and conditions contained in this solicitation

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Thomas F. Deter, President

(Address) 1407 Scalp Avenue

(Phone Number) / (Fax Number) 814-269-9322 / 814-269-9301

(email address) tdeter@hflenz.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

H.F. Lenz Co.
(Company)

(Signature of Authorized Representative)

Thomas F, Deter, President — June 11, 2025
(Printed Name and Title of Authorized Representative) (Date)

814-269-9322 / 814-269-9301
(Phone Number) (Fax Number)

tdeter@hflenz.com
(Email Address)