

# **EXPRESSION OF INTEREST**

BUILDING 301 HVAC REPLACEMENT-DESIGN PROJECT

PREPARED FOR

WEST VIRGINIA ARMY NATIONAL GUARD



H.F. Lenz Co.

1407 Scalp Avenue Johnstown, PA 15904 Phone: 814.269.9300 FAX: 814.269.9301 HFL File No. 2025-1429.00

April 29, 2025



ENGINEERING

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

April 28, 2025

Department of Administration Mr. David H. Pauline, Buyer Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

Subject:

Expression of Interest

Building 301 HVAC Replacement-Design

HFL File No. 2025-1429.00

#### Dear Mr. Pauline:

H.F. Lenz Company (HFL) is enthusiastic about the opportunity to provide the Architecture/ Engineering Services required for the design of an HVAC system to support building.

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

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# TAB 1: FIRM PROFILE





#### 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



## 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.

#### 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.

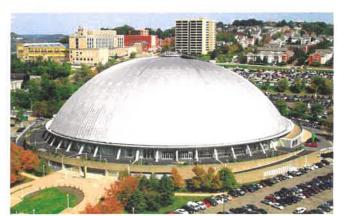
Over the course of the 1960's and 1970's, the firm continued to augment its portfolio of consequential projects in the region and around the country. By the 1980's the firm had grown to 60 people, reaching it's largest size.

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



#### 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



#### 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 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



#### **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.

DRS has extensive experience in the design of Readiness Centers, Armories, and Reserve Centers, including designing and completing the recent renovations to the existing historic New Castle Readiness Center in New Castle, Pennsylvania—completed in 2019. Other similar projects include:

- Crane Avenue PA National Guard Readiness Center and Armory; Pittsburgh, Pennsylvania; Renovations and Addition
- Ford City Armory for the PA Army National Guard; Ford City, Pennsylvania; New Armory with Maintenance and Training
- Cambridge Springs Readiness Center and OMC for the PA National Guard; Cambridge Springs, Pennsylvania
- Johnstown Maintenance Facility for the PA Army National Guard; Johnstown, Pennsylvania
- Morgantown Army Reserve Center and OMS; Morgantown, West Virginia
- Elkins Army Reserve Center and OMS; Elkins, West Virginia
- Wheeling Army Reserve Center and OMS; Wheeling, West Virginia
- Kingwood Army Reserve Center and OMS; Kingwood, West Virginia
- Grantsville Army Reserve Center and OMS; Grantsville, West Virginia

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 with federal and military clients.

#### Federal and Military Clients:

- Department of Energy / National Energy Technology Laboratories, Pittsburgh, Morgantown, and Albany (OR)
- Federal Bureau of Investigation, Pennsylvania and West Virginia
- 171st Air Refueling Wing, Pittsburgh, Pennsylvania
- 911th Air Wing / LGC, Pittsburgh International Airport
- Joint Armed Forces Aviation Facility, Johnstown, Pennsylvania
- US Army, Baltimore Corps of Engineers, Advanced Chemistry Lab, Aberdeen Proving Ground, Aberdeen, Maryland
- U.S. Drug Enforcement Administration, Pittsburgh, Pennsylvania and Milwaukee, Wisconsin
- Social Security Administration, Johnstown, Pennsylvania and McKeesport, Pennsylvania
- U.S. Postal Service, Western PA and West Virginia

# TAB 2: MANAGEMENT APPROACH WORKLOAD & CAPABILITY STAFF AVAILABILITY



# **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.



# **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.





# 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 188 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:

Machan	ical/Fla	ctrical	Division
wechar	ucantre	Curcai	DIVISION

16 Licensed Mechanical Engineers

15 Licensed Electrical Engineers

10 Plumbing/Fire Protection

50 Technicians/CADD Operators

#### Civil/Structural/Survey Division

5 Licensed Civil Engineers

5 Licensed Structural Engineers

19 Technicians/CADD Operators

3 Surveyors

#### Additional Staff

25 Construction Inspectors

9 Technicians/CADD Operators

31 Administrative/Support Services

91 Total

32 Total

65 Total

# TAB 3: ORGANIZATIONAL CHART/ RESUMES/LICENSES



# **Project Team Organizational Chart**

# West Virginia Army National Guard

# 世 H.F. LENZ

Prime Consultant

Principal-in-Charge Thomas F. Deter, P.E., LEED AP 38 Years of Experience

Project Manager/Electrical Engineer Brian D. Schmidt, P.E.

# 世 H.F. LENZ

MEP/FP Engineering

William A. Minahan, P.E. Mechanical Engineer 15 Years of ExperienceJustin S.

#### Kalanish, P.E.

Mechanical Engineer 18 Years of Experience

#### Gregory D. Rummel, CPD. Plumbing/FP Designer

41 Years of Experience

#### Keith A. Gindlesperger, P.E.

Civil Engineer 27 Years of Experience

#### David A. Blackner, P.E.

Structural Engineer 36 Years of Experience

# **DRS Architects**

Design

#### Patrick E. Thornton, AIA Architect

30 Years of Experience

#### Jon Funari, RA

Architect

40 Years of Experience

# **ĽH.F. LENZ**

ENGINEERING



#### 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

#### Resumes

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

Principal-in-Charge

Mr. Deter has over 37 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
- Johnstown New 23,560 SF Maintenance Facility
- Fort Indiantown Gap New 11,000 SF Multi-purpose Building for the ChalleNGe project
- Fort Indiantown Gap Master plan and design for a new auditorium

#### Maryland Army National Guard, Grantsville, MD

New 15,300 SF training facility and maintenance shop

#### USACE, Aviation Center, Johnstown, PA

• New 120,000 SF multi-building reserve center

#### Letterkenny Army Depot, Baltimore District, Chambersburg, PA

Seven consecutive Indefinite Delivery Contracts

#### Pennsylvania State Police, Greensburg, PA

New 31,000 SF State Police Headquarters building

#### 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

# Air Traffic Control Squadron, Johnstown Cambria County Airport, Johnstown, PA

Air Traffic Control Building water infiltration issues study and correction

# 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.
- To use this license as a pocket card, please cut along the dotted line and laminate if desired.
- 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



ENGINEERING



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

#### 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; mediumvoltage 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.

#### **Project Experience**

#### Camp Dawson, U.S. Army National Guard, Kingwood, WV

 Three new billeting facilities designed to resemble small, upscale hotels including design of the heating, cooling, ventilation, lighting, power, fire alarm, telecommunications, fire protection, plumbing, and natural gas service

#### Letterkenny Army Depot - Baltimore District, Chambersburg, PA

Building 320 upgrades and renovations

#### 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

#### U.S. Army Corps of Engineers Army Depot, Cumberland, PA

 Developed a project definition for a proposed new Army Depot a three-story billeting facility providing civil, mechanical, plumbing, fire protection, and electrical engineering services for the facility

# 911 Airlift Wing, U.S. Air Force, Greater Pittsburgh International Airport, Coraopolis, PA

Visiting Offices Quarters, Building 206, renovations

#### Fort Detrick, U.S. Army Corps of Engineers, Frederick, MD

 Improvements and modifications to Buildings 1430, 1545, and 1546

#### PA Army National Guard Readiness Center, New Castle, PA

Renovation to 23,000 SF readiness center

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# 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

BRIAN D. SCHMIDT WV PE #026892

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

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

# 世 H.F. LENZ

ENGINEERING

#### Resumes



# **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

### 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.

#### **Project Experience**

#### 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

#### Loysville Youth Development Center, Perry County, PA

Renovation to the 9,012 SF Zimmerman-Bingman (ZB)
 Cottage - Current DGS project

# National Energy Technology Laboratory (NETL), Various Locations

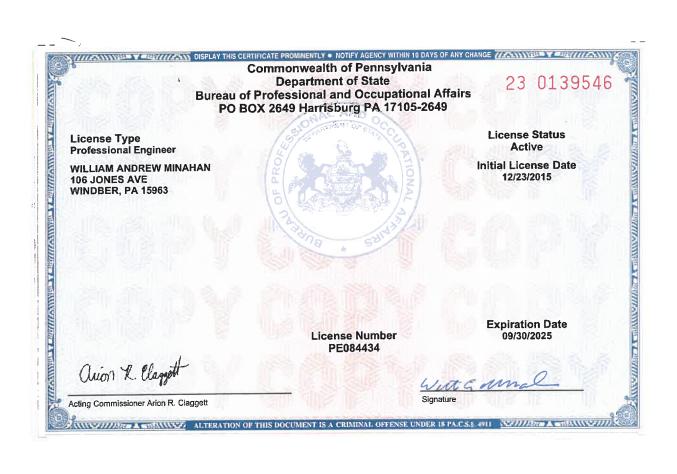
 Indefinite Delivery-Indefinite Quantity (IDIQ) contract for NETL facilities in Morgantown, WV, Bruceton, PA, and Albany, OR - Over 100 projects complete

#### 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

#### Hertz Corporation, Various Locations

- Dulles International Airport Conversion of a bus wash bay into a vehicle maintenance bay
- Austin-Bergstrom International Airport Conversion of a bus wash bay to vehicle maintenance bay
- Minneapolis St. Paul International Airport Terminal 2 -Gold board replacement and gold booth door upgrade
- Palm Beach, Florida Palm Beach International airport facility refresh
- Roanoke, Virginia Roanoke-Blacksburg Regional Airport QTA facility restart
- Charlotte, North Carolina New security booth installation for the drive off-airport maintenance/overflow site
- Salem, Oregon Hertz Local Edition (HLE) office fit-out and interior renovation to the retail space
- Edmond, Oklahoma Hertz HLE interior renovations
- Huntington Station, New York Renovations to off-airport location



# **ĽH.F. LENZ**

ENGINEERING



#### 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

### 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

#### 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

#### Pennsylvania National Guard, Annville, PA

 Renovations to Ft. Indiantown Gap 14,400 SF, multi-purpose Youth Challenge Center facility

#### State Correctional Institute (SCI), Various

- SCI Huntingdon, Huntingdon, PA Electrical power distribution upgrades of the four original cell blocks, plus the two newer cell blocks in the maximum security correctional institution
- SCI Camphill, Camp Hill, PA Replacement of steam lines and repairs to steam tunnel - current DGS 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

#### PennDOT Term Contract - Statewide, Pennsylvania

 Various projects including several maintenance facilities, welcome centers and stockpile facilities

#### Pennsylvania National Guard Facility, Johnstown, PA

 New 23,560 SF office and maintenance facility with eight vehicle maintenance bays

#### National Energy Technology Laboratory (NETL), Various Locations

 Indefinite Delivery-Indefinite Quantity (IDIQ) contract for NETL facilities in Morgantown, WV, Bruceton, PA, and Albany, OR - Over 100 projects complete



# **Ľ H.F. LENZ**

ENGINEERING



# **Education**Bachelor of Science, Mechanical Engineering Technology, 2000, Point

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

#### Experience

Park College

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

#### 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.

#### **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

#### Pennsylvania National Guard Facility, Johnstown, PA

 New 23,560 SF office and maintenance facility with eight vehicle maintenance bays

#### Pennsylvania National Guard, Annville, PA

Ft. Indiantown Gap masterplan and new auditorium

#### Letterkenny Army Depot, Baltimore District, Chambersburg, PA

Seven consecutive Indefinite Delivery Contracts

#### Pennsylvania State Police, Greensburg, PA

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

#### National Energy Technology Laboratory (NETL), Various Locations

 Indefinite Delivery-Indefinite Quantity (IDIQ) contract for NETL facilities in Morgantown, WV, Bruceton, PA, and Albany, OR -Over 100 projects complete

#### 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, PA

 Refueling station; renovations to Hangar Building 129; Repairs and alterations to the Base Exchange Building; new vehicle wash addition

#### NASA Goddard Space Flight Center, Greenbelt, MD

 Address arc flash and electrical safety deficiencies at the NASA Greenbelt campus



ENGINEERING

### Resumes



# 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

### 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.

#### **Project Experience**

#### Clearfield Readiness Center, Clearfield, PA

 Renovations and additions to a 49,760 SF, 25-acres Readiness Center

#### Letterkenny Army Depot - Baltimore District, Chambersburg, PA

 Seven consecutive IDIQ contracts at Letterkenny Army Depot for Civil Engineering throughout the base: Integrated Contingency Plan; Master Planning Services; LEAD/LEMC New Rocket Motor Destruction Facility & Site Design

#### 911th Airlift Wing, U.S. Air Force Reserve, Greater Pittsburgh International Airport - Coraopolis, PA

Various renovations and new construction under two term contracts

#### 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

#### Shepherd University, Shepherdstown, WV

 Civil/site design for East Campus Improvements, phase I demolition/remediation and East Loop and Gateway Arch project;
 N. King Street streetscape improvements

#### West Virginia University, Morgantown, WV

 Site design for the new Ag Sciences Building II; included site utilities, grading and drainage plan, stormwater management plan, erosion and sedimentation control plan, WV DEP Permitting, Morgantown Utility Board Approvals

#### 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

# 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:**

- 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.
- 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

West Virginia State Board of Registration for Professional Engineers

KEITH A. GINDLESPERGER WV PE #019436

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

KEITH A. GINDLESPERGER 841 VERLA DRIVE WINDBER, PA 15963

# 世 H.F. LENZ

ENGINEERING



# 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

### 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.

#### **Project Experience**

#### Letterkenny Army Depot - Baltimore District, Chambersburg, PA

- Seven consecutive IDIQ contracts at Letterkenny Army Depot
- Renovations to the Vehicle Painting Building (Building 320)
- Renovations to the new Component Rebuild Facility (Building 350)

#### Pennsylvania Army National Guard Facilities

Clearfield - Renovation of 49,760 SF Readiness Center

#### U.S. Air Force, 911th Airlift Group/CE, Greater Pittsburgh International Airport - Coraopolis, Pennsylvania

Expansion of Building 130

#### Indiana University of Pennsylvania, Indiana, PA

 Fisher Auditorium renovation and addition including the addition to the existing boiler/chiller plant of approximately 3,700 gross SF

#### Carnegie Mellon University, Pittsburgh, PA

- Addition of a 900-ton chiller and cooling tower to the Physical Plant building
- Phase 2 upgrade to the Mellon Institute chiller plant, which included two new 600-ton chillers and a 700-ton cooling tower Replacement of the roof-mounted cooling towers at Physical Plant building with new four cell cooling tower totaling 3000 tons and replacement of a 500-ton chiller with a 800-ton chiller
- Replacement of the cooling towers at the Wean Hall chilled water plant, overall capacity is 3000 tons

#### Cleveland Clinic, Cleveland, OH

 Cooling tower replacement project which involved demolishing three built up towers and replacing the entire cooling tower system with two new towers and a third relocated tower that matched the two new towers

#### Candlewood Suites, Augusta, GA

 Design of a new 311 room, 150,000 SF hotel, the largest Candlewood Suites in the world, at Fort Gordon Army Base; designed to attain LEED Certification

DISPLAY THIS CERTIFICATE PHOMINENTLY . NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE Commonwealth of Pennsylvania Department of State 0304071 Bureau of Professional and Occupational Affairs PO BOX 2649 Harrisburg PA 17105-2649 License Status License Type Professional Engineer Active DAVID ALAN BLACKNER Initial License Date 06/05/2003 **3427 MENOHER BOULEVARD JOHNSTOWN, PA 15905 Expiration Date** License Number 09/30/2025 PE060955 avion L. Clayett Signature cting Commissioner Arion R. Claggett ALTERATION OF THIS DOCUMENT IS A CRIMINAL OFFENSE UNDER 18 PA.C.S.\$. 4911



### 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

<sup>\*</sup>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:

5137

STATE OF WEST VIRGINIA BOARD OF ARCHITECTS

This Certifies that:

E

RET

A R Y PATRICK THORNTON

is duly Registered and entititled 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
ifunari@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

<sup>\*</sup>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

# TAB 4: PRIOR RELEVANT EXPERIENCE





# **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, telecommunications, 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.



# Relevant Experience

ENGINEERING





### 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 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.



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 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).



ENGINEERING

# Relevant Experience



# PENNSYLVANIA ARMY NATIONAL GUARD

**New Ford City Armory** 

Ford City, PA

#### Services

Mechanical, Electrical, Plumbing & Fire Protection

## **Square Footage**

24,000

## Completed

1998

#### Cost

\$2.4 million

## Reference

Major John Saufley, PE PA Army National Guard 717-861-8212

### Project with



### **DRS Services Provided**

Architectural Design Interior Design Project Management Engineering Coordination Construction Administration H.F. Lenz Company provided the MEP/FP engineering services in collaboration with DRS Architects providing architectural services, working closely with the Pennsylvania National Guard, the Department of Military Affairs, and the Department of General Services in developing the design for a new armory and surrounding site. The process involved the creation and evaluation of several design options that were revised and refined until the design reached the most functional solution that met the requirements and goals of that National Guard Unit.

The armory was the first building constructed in the new Manor Township Business Park in Ford City. With an area of 24,400 square feet, it houses the following:

- Educational Space, including classrooms with folding partitions, a library, and a learning center
- An Assembly Area and Drill Hall, along with the supporting Unit storage rooms, kitchen and food preparation area, table and chair storage, facility maintenance storage, arms vault, and fitness room
- Maintenance and Training Area, which includes a work bay, flammable storage room, and a controlled waste area
- Administrative Spaces that include the recruiting office, staff offices, and a general
  office space
- Common Spaces, including the lobby, break room, restrooms, and locker rooms

For durability, ease of maintenance, and a long life the building is constructed of load-bearing masonry walls. Exterior walls are a combination of utility brick and split-face concrete masonry units with recessed accent strips. The entrance is expressed by an exterior patio enclosed by the building walls but open to the sky above. Glass block was used to allow natural light into the assembly area and the maintenance bay while still providing added durability.



ENGINEERING



# **U.S. ARMY RESERVE CENTER AND OMS**

Grantsville Reserve Center

Grantsville, WV

**HFL Services**Mechanical, Electrical,
Plumbing/Fire Protection,

**Square Footage** 

Civil and Structural

15,300

Completed

1998

Cost

\$4.5 million

Reference

Margie Marcus, Design Manager US Army District, Baltimore Corps of Engineers 410-962-6790

## Project with



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

H.F. Lenz Company in collaboration with DRS Architects, provided the architectural/engineering design services for the construction of a 15,300 SF Training Building and 2,400 SF OMS. A site delineation study and engineering feasibility study were required to determine the viability of the selected site.

The Training Building contains full-time staff offices, unit exclusive offices, unit common space, retention office and administrative support. Assembly areas include: assembly hall, chairs/table storage, kitchen, arms vault, and armorer. Educational facilities include: classrooms, library reading room, library storage, learning center, training aid storage, COMSEC training, and COMSEC storage. Special training areas include: weaponeer room and special projects classroom. Storage areas include unit and individual storage, staging area and supply offices. A completed interior design package was developed for this facility.

The OMS contains shop office, tool and parts storage, parts storage, battery storage and charging, flammable storage, hazardous storage and toilet. The maintenance area consists of a double-work bay and single-wash bay. This project was completed in 1998, the construction cost was \$4,500,000.



ENGINEERING

# Relevant Experience







# U.S. ARMY RESERVE AVIATION FACILITY

## **New Aviation Facility**

### Johnstown, PA

## Services

Mechanical, Electrical, Plumbing, Fire Protection and Surveying

## **Square Footage**

120,000

## Completed

1997

#### Cost

\$22 million

#### Reference

James K. Payne, NAB02 Chief, Project Development US Army Corps of Engineers 410-436-0526





#### DRS Services

Architectural Design Interior Design Project Management Engineering Coordination Construction Administration The H.F. Lenz Company provided mechanical, electrical, and fire protection engineering; site development; and surveying services in collaboration with DRS Architects providing architectural services, for the planning and development of a new U.S. Army Reserve Center and Aviation Support Facility located at the Johnstown Municipal Airport. The project consists of a 120,000 SF multi-building complex located on a 75-acre site and includes.

## Key Features of the project include:

- A U.S. Army Reserve Aviation Maintenance Hangar with administrative offices, conference areas, classrooms, tool and parts storage, battery storage and charging room, flammable storage, four aircraft maintenance hangar bays, special shop areas, a wash bay, and military aircraft and vehicle parking
- Radiant Floor Heating
- A five-ton crane with a 40 ft. span serves the entire length of the hangar
- A foam water fire suppression system is provided along with a detention area to comply with environmental regulations
- An Armed Forces Reserve Center with administrative areas, unit common space, an education facility with assembly hall, classrooms, learning center, library, and flight simulator. Support area will provide storage areas for unit and individual equipment, dining facilities, small arms storage, and maintenance shop.
- Topographic survey and complete site investigation and site plan, including access road, utilities, taxiways, hangar apron areas, compass rose, associated aircraft and taxiway lighting, and site storm drainage collection and retention.
- Van pad with support facilities
- Cost estimates using the M-CACES software
- Life cycle cost analysis (LCCA)

The scope of work also included the design of taxiways, hangar aprons, parking for up to twenty-four AH-1's and four C-12s, taxiway lighting, signage, and site stormwater collection and retention.



## U.S. AIR FORCE - 911TH AIRLIFT GROUP

Base Civil Engineering Building, Building 416 & Hangar Building 129 Additions/Renovations

Greater Pittsburgh International Airport Coraopolis, PA

#### Services

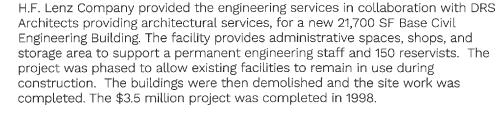
Mechanical, Electrical, Plumbing and Fire Protection

## **Square Footage**

21,700

#### Reference

Bob Moeslein Base Civil Engineer 412,474,8571 Robert.moeslein@ pittsburgh.af.mil



Subsequently, HFL provided engineering services for:

## Fuel Maintenance Hangar, Building 416

- Renovations included administrative areas and toilet rooms to meet ADA; new roofing and roof insulation over the existing deck. Lighting was replaced throughout the hangar with new exhaust and HVAC systems to all renovated spaces.
- An addition of 2,600 SF houses the Paint Room, Paint Prep Area and Media Sandblast Room. Rooftop HVAC units were provided for all new areas; the Paint Room and Prep Room has independent air exhaust systems.
- One of the key aspects of the project was the workaround plan which allowed the functions of the Hangar to continue during construction. Trailers were used to house personnel on a temporary basis.

## Project with



**DRS Services** 

Architectural Design Interior Design Project Management Engineering Coordination Construction Administration







#### Hangar Building 129

- Replaced concrete slab-on-grade sections in the hangar bay in the location of the aircraft jacking points; replaced the finishes and interior doors/frames in the shop area.
- Replaced the fixtures, toilet compartments accessories, showers and lockers in the men's room.
- The sliding tug door replaced with a coiling door.
- Replaced the hangar bay doors' weatherstripping seals and tail door seal.
- New controls were provided for the overhead crane.
- Fire curtains were installed at roof trusses.
- Replaced the boiler and controls, heat exchanger and ventilation system.
- Provisions were made for the unit heaters and convectors.
- Installed a high expansion foam fire suppression system in the hangar bay and a wet pipe system in the shops.
- Replaced the water heater, domestic water piping, and compressed air system.
- Installed a water meter and dryer for the compressed air system.
- An automatic fire detection system was installed in the hangar bay and shops.
- Replaced the hangar bay light fixtures and shop light fixtures.
- Replaced the emergency lighting and exit signs.
- Constructed an addition to accommodate the equipment support shop, office, women's rest room and expansion of the mechanical room for the foam
- The existing tool crib room was converted to the hydraulic testing room.
- The existing women's rest room and office were converted to the hydraulic/pseudraulic shop

Multiple additional projects completed throughout the base under Indefinite Delivery contracts.



ENGINEERING



## **U.S. ARMY RESERVE CENTERS**

**New Reserve Centers** 

Morgantown, Kingwood and Elkins, WV

#### **HFL Services**

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

### **Square Feet**

Various

#### Completed

1996

### Cost

\$12 million

## Reference

Margie Marcus, Design Manager US Army District, Baltimore Corps of Engineers 410-962-6790

### Project with



# DRS Services

Architectural Design Interior Design Project Management Engineering Coordination Construction Administration H.F. Lenz Company in collaboration with DRS Architects, provided the architectural/engineering design services for the design of three new U.S. Army Reserve Centers each having a Training Building (Armory) and an Organizational Maintenance Shop (OMS) in Morgantown, Elkins and Kingwood, West Virginia. The Design Team was responsible for site planning, space planning, facility design, design analysis, construction schedule, construction drawings and specifications, interior design, and the selection of furniture for all three of these Reserve Centers.

The 300-member Morgantown reserve center is located on an eight-acre site and contains 21,700 SF of space in the main building and 5,500 SF in the four bay OMS building.

The 60-member Elkins Reserve Center is located on a four-acre site and provides 12,000 SF of space in its main building and 4,200 SF in the three-bay OMS building.

The 100-member Kingwood Reserve Center is located on a five-acre site with 19,000 SF in its main building and 5,000 SF in the four-bay OMS building along with an additional 600 SF of covered outdoor storage.

All three facilities contain Administrative Spaces with full time staff offices, Unit-exclusive offices, Unit common spaces, a Retention office, education spaces such as classrooms, a learning center, a library, a COMSEC training room, storage spaces for Unit, individual storage, COMSEC storage, assembly area, kitchens, arms vault, and ancillary spaces. The OMS Facilities contain work bays, wash bays, shop offices, battery rooms, tool storage, parts storage and flammable/hazardous materials storage areas.





# PENNSYLVANIA ARMY NATIONAL GUARD

Cambridge Springs Readiness Center and OS

Cambridge Springs, PA HFL Services Mechanical, Electrical, Plumbing/Fire Protection, Civil and Structural

### **Square Footage**

65,000 Readiness Center 20,000 Maintenance Bldg.

## Completed

2008

## Cost

\$19 million

#### Reference

Mark Austin, Director Bureau of Facilities & Eng. Dept of Military & Veterans Affairs 717-861-2915

### Project with



#### **DRS Services**

Architectural Design Interior Design Project Management Engineering Coordination Construction Administration H.F. Lenz Company in collaboration with DRS Architects, provided the architectural/engineering design services for this facility which includes two buildings—a two-story, 65,000 SF Readiness Center and a 20,000 SF Maintenance Facility.

The Readiness Center is designed to support the consolidation of three Units, totaling nearly 450 reservists. Each Unit has dedicated locker rooms, storage rooms, arms vaults, and administrative offices to allow independent operations. Facilities shared by the three Units include a medical clinic, a fitness room, an assembly hall with full-service kitchen, four large classrooms, break areas, general administrative offices, and a recruitment center. The building was designed for community use of the assembly hall and adjacent restrooms while locking out the remainder of the facility. The site development and building construction were designed to meet the Anti-Terrorism and Force Protection Level established for the facility.

The Maintenance Building is 20,000 SF in area and is designed to provide field maintenance support for Unit vehicles and equipment. The facility consists of six maintenance bays, two of which are serviced by a 15-ton overhead crane (including a warm-up bay and a welding bay). The building also houses administrative, personnel, storage, and work areas. The maintenance bays are each 32' by 74' and designed as drivethrough bays sized to accommodate the largest equipment assigned to the facility. This building also includes a wash rack, an exterior fuel storage and dispensing system, a controlled waste handling facility, and a separate building for miscellaneous storage. The work space is heated with an in-slab radiant hot water pipe system supplemented by gasfired radiant heaters at the overhead doors. Each work bay is equipped with vehicle exhaust removal, compressed air service, an overhead power reel, and multiple 220v receptacles.

Both buildings are constructed with structural steel framing, concrete masonry unit walls, and a brick veneer. The Readiness Center was designed to achieve a SPIRIT bronze rating for energy and environmental design.



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

#### Project with



#### **DRS Services**

Architectural Design Interior Design Project Management Construction Administration 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.



#### ENGINEERING

# Relevant Experience





## LETTERKENNY ARMY DEPOT - BALTIMORE DISTRICT

Building 350 and Building 320 Renovations and HVAC Upgrades

## Chambersburg, PA

#### **Services**

Mechanical, Electrical, Plumbing/Fire and Structural Engineering

## Square Footage

375,000

### Completed

2008

#### Cost

\$6.7 million

#### Reference

Brandon Kohler
Directorate of Public
Works
Engineering Branch Chief
Letterkenny Army Depot

Letterkenny Army Depot 1 Overcash Avenue Chambersburg, PA 17201 717-267-8853

## Building 350 Renovation

H.F. Lenz Company provided the engineering services for a multi-phase project to replace, upgrade and expand the HVAC system capacity for Building 350.. The building totals approximately 375,000 SF and is used for military vehicle reconditioning and includes paint shops, welding shops, machine shops, warehouse space, and office areas. The overall project was separated into manageable smaller projects that were completed with minor disruption to the vehicle reconditioning operations.

The entire building exhaust system was upgraded which involved the replacement of twelve 21,900 cfm roof mounted exhaust fans, and design of additional fans to improve overall building ventilation.

### **Building 320 Improvements**

H.F. Lenz Company provided the engineering services for the renovations and HVAC upgrades to the 70,200 SF building, which houses a Vehicle Wash Bay, Vehicle Paint Area, equipment and storage rooms, office support area, shower and locker room, and multipurpose break room. The project included:

- Evaluation and documentation of existing conditions
- Assistance with scope development
- MEP System upgrades, HVAC upgrades included:
  - Removal of abandoned steam supply and return piping and associated terminal equipment, insulation, hangers and controls
  - Integration of the radiant gas heat and the existing solar wall to control the radiant heat to be energized after the solar wall heat has been expended
  - New air handling units and automatic temperature controls
  - New unit heaters and venting
  - New ventilation systems
  - Wash Bay ventilation system
- Locker room and restroom improvements
- Office reorganization and adding new hard walls in reconfigured office space
- Hazardous material abatement
- Upgrades to Breakroom casework and finishes
- Interior finish updates
- Painting of high bay areas and safety zones
- Replacement of overhead doors
- Flat roof replacement and fall protection
- Cost Estimating









# LETTERKENNY ARMY DEPOT (LEAD), BALTIMORE DISTRICT

## Indefinite Delivery Contracts

## Chambersburg, PA

#### 5,

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

## **Square Footage**

Various

## Completed

2013-Present

#### Reference

Brandon R. Kohler 717-267-8853 H.F. Lenz Company has provided the MEP/FP, civil and structural engineering services for over \$100 million of construction for the Baltimore Corps of Engineers over the past 30 years through 6 IDIQ contracts.

## Projects Completed Under the IDIQ Contracts Included:

- Building 12 DISA/CSC Office Renovation Renovate the existing warehouse to office space for Defense Information Systems Agency (DISA)/Computer Science Corporation (CSC)
- Building 3 Defense Data Center Retrofit central chilled water plant
- Building 1 HVAC System Upgrade Replace the existing office HVAC system including distribution and control systems
- Building 2360 Ammunition Area Central Boiler Plant Renovate the interior/exterior including replacement of oil-fired boilers
- Building 1 Office and Warehouse Building Sprinkler modifications
- Building 7 Warehouse Building Renovate lighting
- Building 14 Repairs Architectural modifications and replacement of HVAC system
- Building 521 Addition Civil, structural, mechanical, and electrical design of a 1,400 SF addition to the security headquarters
- Building 663 Renovate facilities engineering building
- Building 3812 Replace boiler/AHU
- Building 350 Upgrade lighting, improve HVAC systems, Combat Vehicle Maintenance Shop
- Building S234 Post Cafeteria Renovation and Expansion Design of complete renovation and an addition to the Depot's Post Cafeteria including a conference/training area
- Master Planning Services Working with our Master Planning consultant, an assessment of existing conditions and development of requirements analysis were prepared in accordance with AR 210-20, Real Property Master Planning for Army Installations and in the Master Planning Instructions
- Programming Documents, 1391 Preparation Working with the Depot's Master Planner, we provided services related to the development of 1391's for various MCA projects
- Building 3 Upgrade Fire Alarm System
- Command Flag Area Improvements Renovate the commander's site entrance area to include walks, grass, sitting areas, flag poles, and the inclusion of the original LEAD iron gates
- Building 349 Boiler plant modifications and roof replacement
- Building 1 Restroom Renovations Renovate and upgrade the restroom area including a new floor plan to accommodate ADA requirements, new plumbing fixtures, ventilation, and architectural finishes
- Child Development Center Sanitary sewer expansion
- Phase 1 Environmental Site Assessment of Adjacent Property
- Reasonably Available Technology (RACT) Analysis A Reasonably Available Technology RACT Analysis was conducted for the acid wash primer utilized in the painting operations to determine the feasibility of installing additional VOC emission controls. The RACT Analysis will be performed in accordance with the U.S. Environmental Protection Agency and PA DEP guidelines



- Building 397 Renovation and Addition Renovation to use as generator/compressor rebuild shop. Upgrade electric, fire sprinklers, lighting, and all interior and exterior finishes
- Building 321 Demolition and Reconstruction Demolish the existing structure and replace with a new building for Mine Resistant Ambush Protected (MRAP) process line
- Building 330 Renovation and Upgrade Enclose and renovate a portion of the south end of the building to provide workspace for storage operations
- Building 331 Renovation and Upgrade Enclose and renovate a portion of the north end of the building to provide workspace for storage operations
- Building 330 and 331 Dock 2 Shipping and Receiving Office Construct administrative space to coordinate shipping and receiving functions
- Building 320 Renovation of vehicle restoration building New finishes, lighting. HVAC, fire
  protection, electrical distribution, plumbing, roof, garage doors, wash bay, and emergency
  generator

H.F. Lenz Company has held multiple IDIQ Term Contracts for this agency as both Prime Consultant and Subconsultant.







# PENNSYLVANIA ARMY NATIONAL GUARD

Clearfield Readiness Center Rehabilitation

## Clearfield, PA

### Services

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

#### **Square Feet**

49,760

## Completed

2023

#### Cost

\$4.2 million

#### Reference

John S. Wert, RA PA Department of General Services 717-346-5948 johwert@pa.gov The Clearfield Readiness Center was constructed in 1938 and is listed on the Historical Register. It was built for Troop A, 103rd Cavalry of the Pennsylvania National Guard. The facility is 49,760 SF and covers 25-acres. The focus of this rehabilitation project was multiple code upgrades, restoration work, Force Protection (FP) enhancements, energy upgrades and general repairs.

H.F. Lenz Company provided the MEP/FP, civil, and structural engineering services for the renovation of the Clearfield Readiness Center.

The scope of work for the project included:

- New HVAC systems, which meet the Department of Defense and UFC criteria
- Upgrade the entire electrical service and distribution system to meet the new building loads
- Replace existing building lighting system with LED lighting
- New fire alarm system and mass notification system
- New standby generator to provide back-up power
- Renovate bathrooms and plumbing fixtures throughout
- Replace the sanitary, vent, hot water and cold water piping throughout the building
- Upgrade kitchen systems to meet code
- Expand bituminous concrete POV parking area by 10,000 SF
- Reconfigure front entranceway to eliminate direct vehicle path to the front entrance of the building
- Construct loading dock
- Structural engineering evaluations in select areas

Designed in compliance with United Facility Criteria (UFC) 04-010.01 DOD Minimum Antiterrorism Standards for Buildings.

Integrating historic preservation aspects into the design was a key aspect to maintain the building's eligibility for the National Historic Register.









## 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.









# **CONNECTICUT ARMY NATIONAL GUARD**

Renovation of Classrooms in Four Armories

Waterbury, CT Branford, CT Stratford, CT Norwich, CT

#### Services

Mechanical, Electrical Engineering

## Cost:

\$728,000

## Completed

2023

### Reference

Christopher Williams, AIA Architect 85 Willow Street New Haven, CT 06511 CWilliams@cwarchitects Ilc.com

Phone: 203-776-0184

H.F. Lenz Company provided the Mechanical and Electrical Engineering Services for the renovation of classrooms and conference areas within four Connecticut Army National Guard Readiness Centers. The Readiness Centers are located in Branford, CT; Stratford, CT; Waterbury, CT; and Norwich, CT. The Branford and Waterbury Armories are on both Federal and State historical registers.

## H.F. Lenz Company's services included:

- A/C split system to serve classroom space
- Specifications for protection/cleaning of remaining HVAC Systems
- Demolition and design of new lighting
- Addition of electrical and data wall receptacles
- New wireless access router
- AV system design, including projectors, screens, monitors, and head end equipment
- Review of ventilation within the space, provided recommendations and inclusion of upgrades
- Provided insulation of above ceiling piping
- Construction administration services.

The design was done in accordance with federal, state, and local laws, codes, ordinances, rules, regulations and other legal requirements of public authorities including the Connecticut Department of Energy and Environmental Protection and Army National Guard Facilities Design Guides.









## 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.









## 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.







## 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.







# 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.



## **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.





# **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.

# **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

c Folder: 1672101 Reason for Modification: : Description: Building 301 HVAC Replacement-Design EOI c Type: Central Purchase Order **Solicitation Closes** Solicitation No Issued Version 2025-04-29 0603 1 j-04-14 13:30 CEOI ADJ2500000022

### RECEIVING LOCATION

CLERK

ARTMENT OF ADMINISTRATION

CHASING DIVISION

WASHINGTON ST E

RLESTON WV 25305

DOR

dor Customer Code: 000000159840

dor Name: H.F. Lenz Co.

ress: 1407

et : Scalp Avenue

: Johnstown

e:PA

**Country: United States** 

Zip: 15904

cipal Contact: Thomas F. Deter, President

dor Contact Phone: 814-269-9300

Extension: 322

INFORMATION CONTACT THE BUYER

f H Pauline 558-0067

.h.pauline@wv.gov

iture X

or

JUST H

FEIN# 25-1007465

**DATE: April 28, 2025** 

fers subject to all terms and conditions contained in this solicitation

nted: Apr 14, 2025

Page: 1

FORM ID: WV-PRC-CEOI-002 2020/05

**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 wvOASIS, 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	April 28, 2025	
(Printed Name and Title of Authorized R 814-269-9322 / 814-269-9301	epresentative) (Date)	_
(Phone Number) (Fax Number)	-	
tdeter@hflenz.com		
(T '1 A 11 )		

(Email Address)