



**H.F. LENZ
COMPANY**

1407 Scalp Avenue
Johnstown, PA 15904-3329
Phone: 814-269-9300
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*Engineers
Planners
Surveyors
Energy Consultants*

May 19, 2014

Ms. Tara Lyle
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Subject: Architect and Engineering Services for the
West Virginia Division of Corrections
Emergency Power Systems and Electrical Issues at
Huttonsville Correctional Center
Randolph County, West Virginia
Req #COR61694
HFL File No. 2009-8002.88

Dear Ms. Lyle:

Thank you for the opportunity to submit H.F. Lenz Company's qualifications for the Emergency Power Systems and Electrical Issues at Huttonsville Correctional Center. Enclosed is one original and five copies of our submittal.

You will see in our enclosed submittal that we have provided engineering design services for numerous public and private clients, including several correctional centers, over the past 68 years. Many of these projects have involved the upgrade of electrical systems and emergency power. Our team is exceptionally well-qualified to provide the services required for this project.

We acknowledge receipt of Addendums 1-3.

If you have any questions, or would like additional information, please contact me at 814-269-9300. We look forward to working with you on this project.

Sincerely,

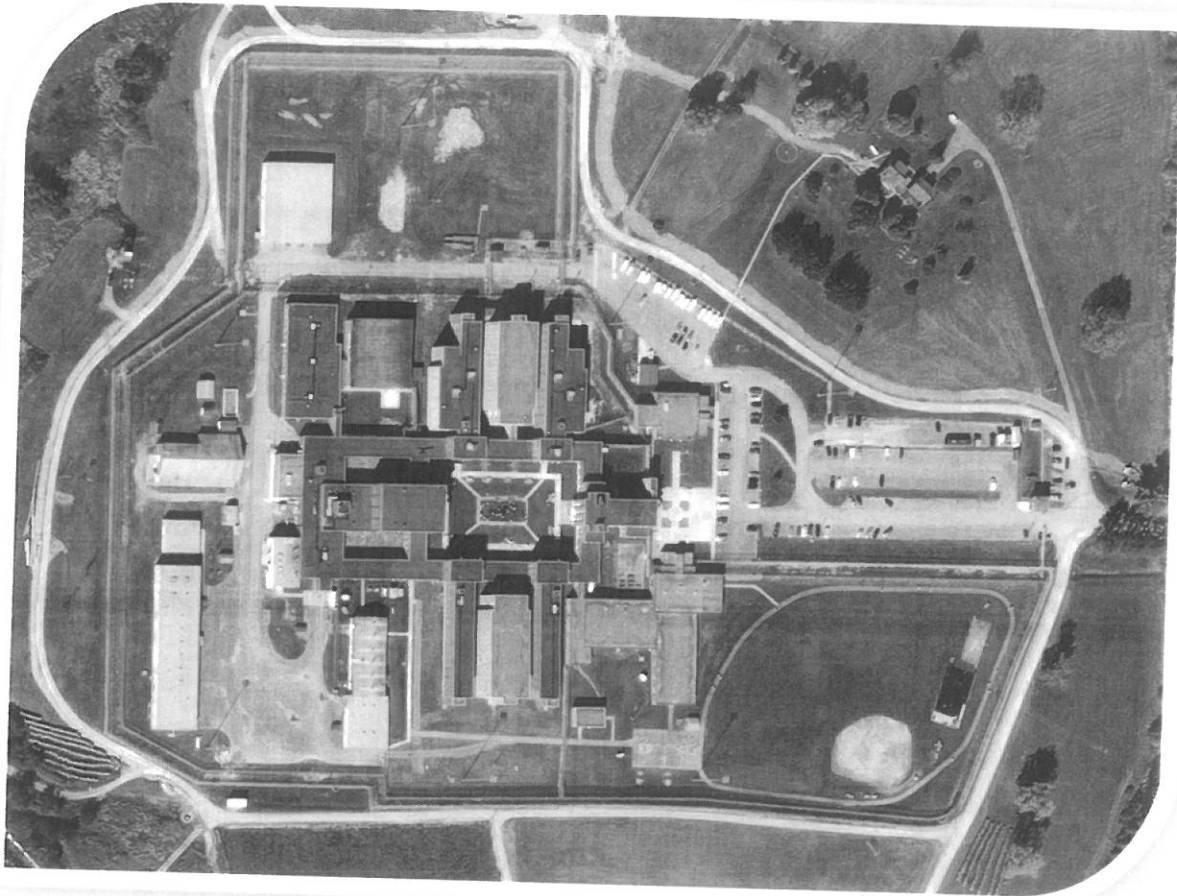
H.F. LENZ COMPANY

Robert F. Stano, P.E.
Vice President

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Enclosures

05/20/14 09:59:27AM
West Virginia Purchasing Division



**Architect and Engineering Services for the
West Virginia Division of Corrections
Emergency Power Systems and Electrical Issues at
Huttonsville Correctional Center
Randolph County, West Virginia**

Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Buyer: Tara Lyle
Req # COR61694
Opening Date: May 20, 2014
Opening Time: 1:30pm

HFL File 2014-8001.99

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Architect and Engineering Services
for the West Virginia Division of Corrections
Emergency Power Systems and Electrical Issues at
Huttonsville Correctional Center
Randolph County, West Virginia

Req # COR61694

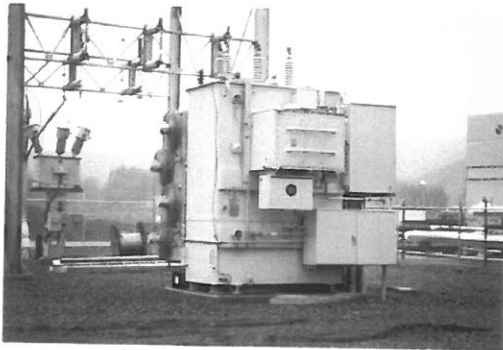
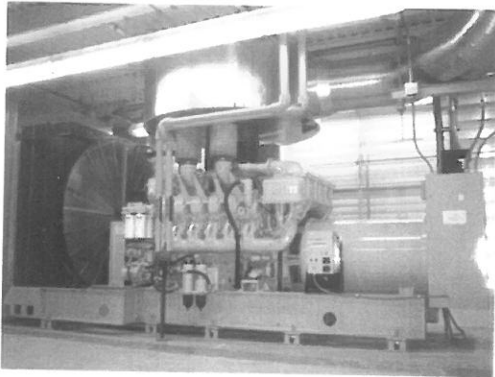


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H.F. LENZ
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Currently in its 68th year, the H.F. Lenz Company is a Pennsylvania-based firm offering a full range of engineering services for building systems, infrastructure, and industry. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed \$530 million in MEP, Civil and Structural construction annually. A remarkable 85 percent of our work consists of repeat commissions from clients who appreciate our responsive, value-added service. Our in-house services include:



- Mechanical Engineering
- Electrical Engineering
- Plumbing Engineering
- Life Safety / Fire Protection Engineering
- Communications Engineering
- Energy Management
- Civil Engineering
- Structural Engineering
- Industrial Engineering
- Surveying
- Construction Phase Services
- Commissioning
- LEED™ Design Services

CORRECTIONAL FACILITY DESIGN

H.F. Lenz Company is nationally recognized engineering firm with extensive experience in criminal justice facilities. We understand the issues involved in designing building systems for this type of facility and we are thoroughly familiar with recent correctional trends. We will work closely with the WV Division of Corrections and Huttonsville Correctional Center staff to develop the solutions that best meet your unique needs.

ELECTRICAL ENGINEERING EXPERIENCE

Electrical Distribution Systems

Many buildings today are in need of electrical renovations/retrofits due to the age of the existing systems, increased loads, code compliance issues, and future growth plans. Our Electrical Engineers have extensive experience in building electrical upgrades for colleges & universities, commercial office buildings, public and private healthcare facilities, and military facilities.



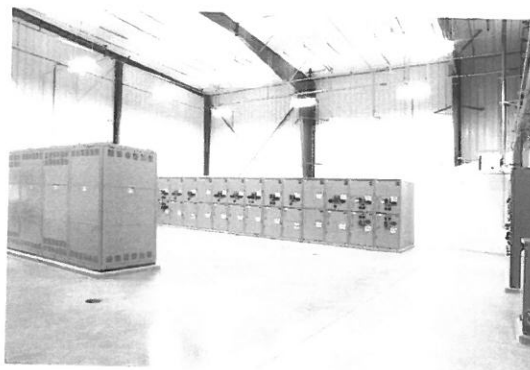
H.F. Lenz Company's experience with electrical distribution systems includes the evaluation, upgrade, and replacement of the following:

- Services
- Unit substations
- Switchgear/Switchboards
- Distribution risers
- Branch panelboards
- Loadcenters

We have performed this work as the Prime Professional, as part of an A/E team, and with contractors as part of a design/build delivery method. Most projects require careful phasing and the use of temporary services so that the building can remain occupied with minimal disruption to ongoing operations.



H.F. Lenz Company has a team of experienced electrical engineers and designers who understand how electrical systems are configured based on a wide variety of experience in many types of buildings. Our Team reviews any existing documentation which might be available to understand the general configuration of the system. Many times, however, the actual installation was either not installed in accordance with the original drawings or has been significantly revised over the years of occupancy. Our Team is dedicated to spending the time within the existing building to understand how the system is organized.



From this understanding, H.F. Lenz Company will prepare an existing riser diagram and/or one-line diagram depicting the actual conditions within the building. Based on this research, we can then fully understand how the replacement of the equipment, feeders, etc., can be phased to minimize the disruption to the entire building, or to portions of the building, based on occupancy needs. This approach to understanding the complete system results in a very accurate system design and also reduces the change orders that may be common on designs which do not provide this level of investigation.

Medium/High Voltage Experience

Our experience with medium voltage (5 to 46 kV) primary electrical distribution systems includes transformer replacements, electrical switchgear design, substation design, overhead and underground distribution, electrical vaults, manholes, emergency/stand-by generators, and electrical codes, standards, and ordinances.



Our experience with substation design includes both indoor and outdoor substations with incoming voltages ranging from 4,160 volts to 168,000 volts. Secondary voltages are typically 480 volts to 13,800 volts. Our designs include breakers that use either vacuum or sulfur hexafluoride (SF6) as an insulating medium. We have designed a multitude of relay protection schemes including phase over current, ground fault, directional power, direct current, and differential relays.

H.F. Lenz Company's experience with campus medium voltage distribution systems begins with careful, detailed coordination with the utility company. The operation of the utilities distribution system has a significant influence on the design of the facilities switchgear. H.F. Lenz Company will coordinate installation details, short circuit current, coordination, relay/reclosure timing, etc. This information is critical to properly design the system and to coordinate the timing for transferring power between sources. System designs are based upon the needs of the facility and also upon their operational expectations. This information is used to assess the level of automation which is incorporated into the design.



H.F. Lenz Company has experience designing medium voltage distribution systems with varying complexity and redundancy. Some examples of recent project configurations include:

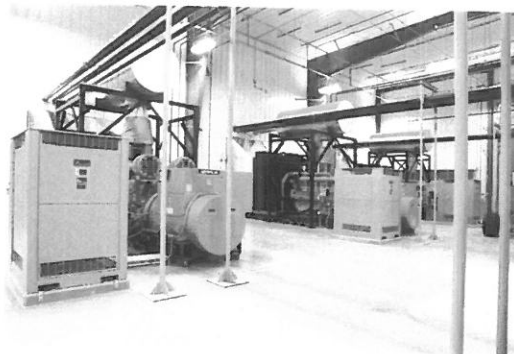
- Multi-service dual-loop distribution with double-ended substations at each building
- Multi-service, single loop distribution incorporating sectionalizing switches to isolate sections of the distribution system
- Multi-service, dual-loop distribution with dual primary feeds to a single transformer
- Single service with radial feeds where each feed serves multiple buildings
- Overhead distribution with single service pole-mounted transformers



H.F. Lenz Company utilizes our knowledge of the varying distribution configurations to analyze and evaluate individual applications to best suit the project. Costs, constructability, phasing, temporary power, delivery schedules, utility schedules, etc. will all influence decisions in developing the system design.

EMERGENCY AND STANDBY POWER SYSTEMS

Our extensive experience with onsite power generation includes generator systems for correctional facilities, data centers, hospitals, office buildings, and other facilities that require a reliable source of alternate electrical power. We have specified both diesel and natural gas-driven generators with kilowatt ratings ranging from 100 kW to 2,000 kW each. We are experienced with both low and medium voltage systems. Our engineers are very familiar with designing systems where two or more generators are paralleled to increase the total kilowatt rating. We also provide complete load shedding controls for facilities who wish to save on their annual electric costs by becoming a utility curtailing customer.



SHORT CIRCUIT ANALYSIS AND RELAY COORDINATION STUDIES

These studies are performed to determine if proper short circuit protection is available for all major pieces of electrical equipment. The objective is to isolate any fault in a localized area before the entire facility is affected by an outage.

The first part of the study determines the available fault duty at all major electrical equipment. A coordination study is then performed to obtain all pertinent fuse curves, breaker curves, and relay curves used for the protection within the system. With this information, proper settings can be specified for breakers and relays so that branch and feeder devices trip before the main devices trip.



EXPERTISE IN UTILITY MODELING SOFTWARE

H.F. Lenz Company utilizes SKM Power Tools electrical software during the planning, design, and construction phases of projects. SKM Power Tools is used from the point of the Power Company connection throughout the entire facility's distribution system. The software assists Engineers in all facets of Three-Phase Power System Design and Analysis including rigorous load flow and voltage drop calculations, impact motor starting, traditional fault analysis, demand and design load analysis, Arc Flash Hazards studies, feeder, raceway and transformer sizing, and panel, MCC, and switchboard schedule specification. The SKM Power Tools Software saves time by sharing a common project database and interface and improves consistency with standard design libraries.

RECENT CORRECTIONAL FACILITY EXPERIENCE EXAMPLES

State Correctional Institution, Benner Township, Centre County

Electrical engineering services for the design of a new 2,000 inmate correctional institution. The facility is designed to attain LEED Certification. \$179 million Completed in 2013

State Correctional Institution, Marienville, Forest County

MEP and civil/site engineering services for a new 700,000 sq.ft. correctional facility to house up to 2,000 inmates. The maximum security restricted housing unit contains 96 cells, and there are nine general population housing units each with 128 cells. The support services building includes a visiting room, health care, kitchen/dining, commissary, maintenance and correctional industries. The chapel, education and recreation services are part of the program services building. \$115 million Completed in 2004

State Correctional Institution, Pine Grove

MEP engineering services for bridging documents for a new 128 cell (L3) addition. This project was one of the first two housing units developed through the use of the design/build construction process which necessitated the development and refinement of the design/build process in close cooperation with DGS and DOC. \$11,466,000 Under Construction

State Correctional Institution, Coal Township

MEP engineering services for bridging documents for a new 128 cell (L3) addition. This project was also one of the first two housing units being developed through the use of the design/build construction process. \$11,911,000 Under Construction

State Correctional Institution, Cambridge Springs

MEP engineering services for bridging documents for a new 128 cell (L3) addition. \$11,350,000 Construction Contract has been awarded

State Correctional Institution, Forest County

MEP engineering services for bridging documents for a new 96 cell (L5) addition. \$21,900,000 To be re-bid

State Correctional Institution, Camp Hill

MEP and structural engineering services for the replacement of the steam lines and the repair of the main steam tunnel. \$8,750,000 Currently under construction

State Correctional Institution, Fayette

MEP engineering services for the replacement of the HTHW heating lines serving the facility, which involved nearly 2.75 miles of piping. \$7,350,000 Completed in 2011



The first task for the project will be to analyze the existing emergency distribution system to determine the problem causing damage to electrical equipment. The existing emergency electrical distribution system will be verified through extensive field survey. The neutral paths will be verified from the generators through the complete emergency distribution system. We will be confirming if the neutral path is solid and or switched and properly bonded to ground. The generator grounding will be verified and possibly tested to confirm if solidly grounded. The grounding of the step down transformers will be field verified and possibly tested to determine if they are properly grounded and bonded. Each automatic transfer switch will be reviewed for proper operation. Once the problem is identified corrective action recommendations will be provided.

The second phase will start during our analysis of the emergency power distribution system we will also be verifying the normal power distribution system to start the analysis of the existing system for the requested system improvements. Our analysis of the existing system will consist of a through load analysis utilizing the previous 24 months of electric bills and estimated future loads obtained from onsite personnel. We will compile a load profile of the existing center and utilize information to calculate the capacity of the emergency generation plant.

The third phase will design the system improvements required to accommodate the new emergency generator plant for the center and the sewage treatment plant. Detailed phasing plans will be reviewed with onsite personnel to limit the outages that will be required to implement the improvements to the normal and emergency power distribution system. Finally we will provide construction administration services throughout the duration of the project.



**Social Security Administration
Headquarters**

Woodlawn, Maryland

- Replaced master 13.8 kV switchgear lineup and entire electrical distribution system (10 MVA) serving the 1.2 million sq.ft. Operations Building

**Robert F. Kennedy Department of Justice
Building**

Washington, D.C.

- Electrical distribution upgrade for the renovation/retrofit of a 1.3 million sq.ft. federal office building
- Reused three 13.8 kV services in a fully paralleled spot network

Three Mellon Center

Pittsburgh, Pennsylvania

- New electric service comprised of six 1,000 kVA networked transformers and a 7,500 amp switchboard

SEPTA Corporate Headquarters

Philadelphia, Pennsylvania

- Replaced electrical distribution system for a 20-story 660,000 sq.ft. high rise

Carnegie Mellon University

Pittsburgh, Pennsylvania

- Upgraded main campus electric service by adding a third 10 MVA substation transformer with a third 23 kV feeder
- Relocated primary 23 kV campus electrical feeders in connection with a new building

**National Institute for Occupational Safety
and Health**

Pittsburgh, Pennsylvania

- Site-wide electrical system study
- Identified code deficiencies
- Developed one-line diagrams
- Presented options for repair or replacement
- Provided cost estimates
- Prioritized upgrades into immediate, short, and long term



**The Pennsylvania State University
University Park, Pennsylvania**

- 12.47 kV service, transformers and switchgear replacement for six campus buildings

Meadville Medical Center

Meadville, Pennsylvania

- Facility-wide electrical distribution study and one-line diagram

Hamot Medical Center

Erie, Pennsylvania

- Emergency power study
- Facility-wide electrical distribution one-line diagram
- Data Center electrical system study

University of Pennsylvania

Hamilton Village Towers

Philadelphia, Pennsylvania

- New 13.2 kV unit substations
- Replaced existing 13.2 kV cables
- Replaced all branch circuit panelboards

Fairmont State College

Fairmont, West Virginia

- Campus-wide electrical distribution study and replacement of campus 4,160V main switchgear, standby power upgrade

Federal Office Building

Huntington, West Virginia

- Complete building electrical retrofit



**U.S. Air Force 911 Airlift Wing
Pittsburgh International Airport
Pittsburgh, Pennsylvania**

- Electrical distribution upgrade including new switchgear, transformers and switchboards

**Indiana University of Pennsylvania
Indiana, Pennsylvania**

- New 12.47 kV electrical distribution system with transformers, manholes, underground duct bank and secondary wiring to switchboards

**Letterkenny Army Depot
Chambersburg, Pennsylvania**

- Replaced 7.2 kV overhead lines with 12.47 kV distribution
- Replacement of existing electrical main service and installation of new substation and transformers

**Pennsylvania State Capitol Complex
Harrisburg, Pennsylvania**

- Complete upgrade of 12.47 kV underground distribution to all 13 buildings in the complex

**New Corporate Campus
Northeastern Ohio**

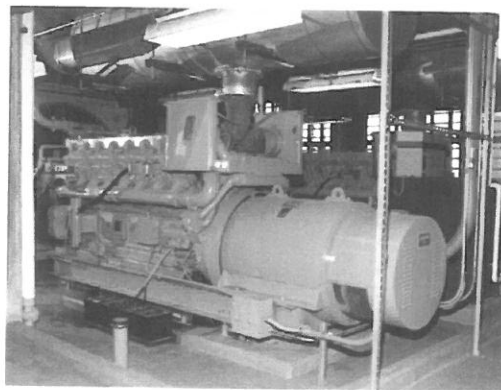
- New 13.2 kV underground electrical distribution system
- Each building is served by a pad-mounted medium voltage primary selector switch

**Slippery Rock University
Slippery Rock, Pennsylvania**

- Replaced the main distribution switchgear that supplies the 12.47 kV dual feed campus loop

**The Haverford School
Electrical Distribution Upgrade
Haverford, Pennsylvania**

- Converted the 5 building private school campus from a 4160V distribution system to a 13.2 kV distribution system



**Altoona Hospital
Altoona, Pennsylvania**

- New 12.47 kV double-ended primary electric service
- Design of automatic testing and load shedding controls
- Two new 900 kw emergency generators

**West Virginia University
Morgantown, West Virginia**

- Connected two new buildings to the campus medium voltage distribution loop via new 4-position selector switches
- Extended new 12.47 kV feeders to Ruby Hospital switchgear lineup, added 4 new medium voltage switches to serve additional buildings

**Market Street State Office Building
Harrisburg, Pennsylvania**

- Electrical system design for a new 16-story, 450,000 sq.ft. office building including two 2,500 kVA transformers

**Mellon Independence Center
Philadelphia, Pennsylvania**

- Three 13.2 kV electrical service lines with automatic switching system

**Veterans Affairs Medical Center
Philadelphia, Pennsylvania**

- New underground 13.2 kV power distribution network with new distribution switchgear and manholes



**James E. Van Zandt Veterans Affairs
Medical Center
Altoona, Pennsylvania**

- Segregate emergency power distribution within the Main Patient Building, Emergency Department, and Ambulatory Surgical Center; included a new 1000 kW generator and automatic transfer switches

**Good Samaritan Medical Center
Johnstown, Pennsylvania**

- 23 kV overhead primary electric service
- 250 kW diesel-fueled emergency generator

**State Correctional Institution
Marienville, Pennsylvania**

- New underground dual feed 13.2 kV distribution loop
- Buildings served by pad-mounted medium voltage primary selector switches

**Internal Revenue Service
Philadelphia, Pennsylvania**

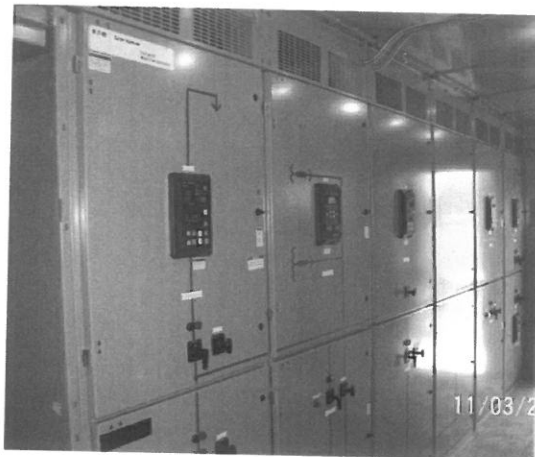
- New 13.2 kV dual primary feeders to a new dedicated 2,000/2,667 kVA double-ended substation
- New 2,400 kVA multi-module parallel-redundant UPS system

**Pennsylvania State University
East Steam Plant Feeder Replacement
University Park, Pennsylvania**

Replaced approximately 1,500 LF underground ductbank and 12.47 kV feeders

**The Pennsylvania State University
Internal Air System
University Park, Pennsylvania**

- 46 kV, 4160v substation to feed two 1500 hp air compressors for a research facility



**Mount Nittany Medical Center
State College, Pennsylvania**

- 12 kV primary distribution system replacement study
- New 15 kV switchgear and underground electric ductbank

**Children's National Medical Center
Washington, D.C.**

- Facility-wide electrical system study
- New 13.2 kV primary electrical distribution system

**Indiana Hospital
Indiana, Pennsylvania**

- Relocation and installation of new 22.9 kV and 4.15 kV distribution system

**Conemaugh Medical Center
Johnstown, Pennsylvania**

- New 23 kV distribution system with double-ended switchgear and 1,000 kW generator

**Veterans Affairs Medical Center
Apinwall Facility
Pittsburgh, Pennsylvania**

- New dual feed 23 kV underground primary service for 30 buildings
- New 4.16 kV secondary distribution system



**California University of Pennsylvania
California, Pennsylvania**

- 15 kV switchgear and replacement of existing switchgear arrangement

**Fortune 100 Company
New Tier IV Data Center
Southeastern United States**

- 60 MW substation
- 161 kV loop feed main service
- 13.8 kV distribution (2N)

**Electronic Payment Services, Inc.
Wilmington, Delaware**

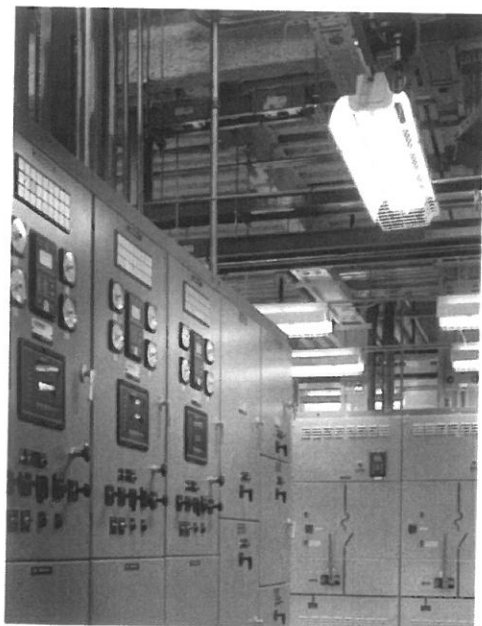
- Power reliability evaluation and design of new UPS system and standby power system

**Mellon Card Services Center
Wilmington, Delaware**

- Electrical design of an 80,000 sq.ft. terminal facility including a 125 kV UPS system

**Mellon Client Service Center
Pittsburgh, Pennsylvania**

- Complete electrical design for a new 650,000 sq.ft. operations center
- Three 2000 kW standby generators back up the entire system through a prioritized load shedding system



**Social Security Administration
Data Operations Center
Wilkes-Barre, Pennsylvania**

- 12.4 KV dual primary electric service
- Emergency generator

**FedEx Ground Headquarters
Pittsburgh, Pennsylvania**

- Complete electrical design for a new 350,000 sq.ft. corporate headquarters facility and data center

**Westminister College
New Wilmington, Pennsylvania**

- Upgrade electrical distribution system in nine dormitories

**University of Pennsylvania
Philadelphia, Pennsylvania**

- New double ended unit substation stations in Harnwell House, Rodin House and Harrison House
- New 13.2 kV automatic switchgear was replaced in Chemistry Complex
- 13.2 kV switchgear replacements are in design for the Van Pelt Dietrich Library Complex and the John Morgan School of Medicine facility

**Thomas Boulevard
University of Pittsburgh
Pittsburgh, Pennsylvania**

- Diesel, 300 kW, 277/480V
- Outdoor enclosure

**Benedum Hall
University of Pittsburgh
Pittsburgh, Pennsylvania**

- Diesel, 600 kW, 277/480V
- Outdoor enclosure

**Carrillo Street Steam Plant
University of Pittsburgh
Pittsburgh, Pennsylvania**

- Diesel, 1 MW, 277/480V
- Paralleled with existing 1 MW Generator

**Mellon Institute
Carnegie Mellon University
Pittsburgh, Pennsylvania**

- Diesel, 500 kW
- Automatic Transfer Switches and distribution panels

**300 Craig Street
Carnegie Mellon University
Pittsburgh, Pennsylvania**

- Diesel, 350 kW, 277/480 volts

**Cyert Hall
Carnegie Mellon University
Pittsburgh, Pennsylvania**

- Diesel, 1000 kW, 277/480 volts

**6555 Penn Avenue
Carnegie Mellon University
Pittsburgh, Pennsylvania**

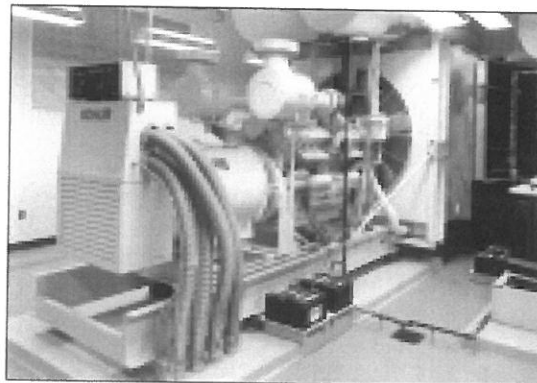
- Diesel, 35 kW, 120/208 volts

**Doherty Hall
Carnegie Mellon University
Pittsburgh, Pennsylvania**

- Diesel, 500 kW, 277/480 volts

**Moorewood Gardens Towers
Carnegie Mellon University
Pittsburgh, Pennsylvania**

- Diesel, 250 kW, 277/480



Social Security Administration. The standby power system for SSA's data operations center in Wilkes-Barre, Pennsylvania includes a separate on-site generator for the data processing loads.

**New House First Year Residence Hall
Carnegie Mellon University
Pittsburgh, Pennsylvania**

- Diesel, 250 kW, 277/480

**Alter Hall, Fox School of Business
Temple University
Philadelphia, Pennsylvania**

- Diesel, 250 kW, 277/480

**Fairmont State College
Fairmont, West Virginia**

- Diesel, 100 kW, 277/480 volts
- Automatic Transfer Switches

**Haverford Upper School
Bryn Mawr, Pennsylvania**

- Diesel, 250 kW, 277/480

**West Virginia University Hospitals
Ruby Memorial Hospital
Morgantown, West Virginia**

- Two new 800kW diesel generators
- Paralleled together via digital paralleling switchgear
- Automatic Transfer Switch upgrade

**Altoona Hospital
Altoona, Pennsylvania**

- Diesel, four 900 kW, 4160 volts
- Paralleling controls



EPS Data Center

Wilmington, Delaware

- Diesel, two 1500 kW, 277/480 volts
- Paralleling switchgear

FedEx Ground

Pittsburgh, Pennsylvania

- Diesel, two 900 kW, 480 volts

Good Samaritan Medical Center

Johnstown, Pennsylvania

- Diesel, 250 kW, 120/208 volts

Indiana Hospital

Indiana, Pennsylvania

- Diesel, 230 kW, 120/208 volts

IRS Service Center

Philadelphia, Pennsylvania

- Diesel, 175 kW, 277/480 volts

Market Street State Office Building

Harrisburg, Pennsylvania

- Diesel, 1100 kW, 277/480 volts

Mellon Client Service Center

Pittsburgh, Pennsylvania

- Diesel, three 2000 kW, 277/480 volts

National Drug Intelligence Center

Johnstown, Pennsylvania

- Diesel, two 275 kW, 277/480 volts

Pennsylvania State Capitol Complex

Harrisburg, Pennsylvania

- Diesel, two 460 kW, 277/480 volts
- Diesel, four 350 kW, 277/480 volts
- Paralleling controls

SEPTA Headquarters

Philadelphia, Pennsylvania

- Diesel, 1250 kW, 277/480 volts

Seton Hill College

Greensburg, Pennsylvania

- Diesel, 200 kW, 277/480 volts

Lincoln County 911 Center

Hamlin, West Virginia

- Diesel, 500 kW, 277/480 volts

Shady Side Hospital

Pittsburgh, Pennsylvania

- Gas, three 800 kW, 2400/4160 volts
- Paralleling controls
- Three 750-ton chiller unit combines

Social Security Administration

Wilkes-Barre, Pennsylvania

- Diesel, 800 kW, 277/480 volts
- Diesel, 275 kW, 277/480 volts

Veterans Affairs Medical Center

Aspinwall Facility

Pittsburgh, Pennsylvania

- Diesel, 600 kW, 277/480 volts
- Diesel, 350 kW, 277/480 volts

Veterans Affairs Medical Center

Oakland Facility

Pittsburgh, Pennsylvania

- Diesel, 450 kW, 277/480 volts

Children's Hospital of Pittsburgh

Pittsburgh, Pennsylvania

- Diesel, 1000 kW, 277/480 volts

Heritage Health System, The Medical Center

Beaver, Pennsylvania

- Paralleling switchgear
- Paralleling controls

State Correctional Institute

Marienville, Pennsylvania

- Diesel, dual 2000 kW

Social Security Administration

Woodlawn, Maryland

- Diesel, 1000 kW/1250 kVA, 277/480 volt,
3-phase, 4 wire transformers

Veterans Affairs Medical Center

Philadelphia, Pennsylvania

- Diesel, two 600 kW, 277/480 volts
- Paralleling Controls

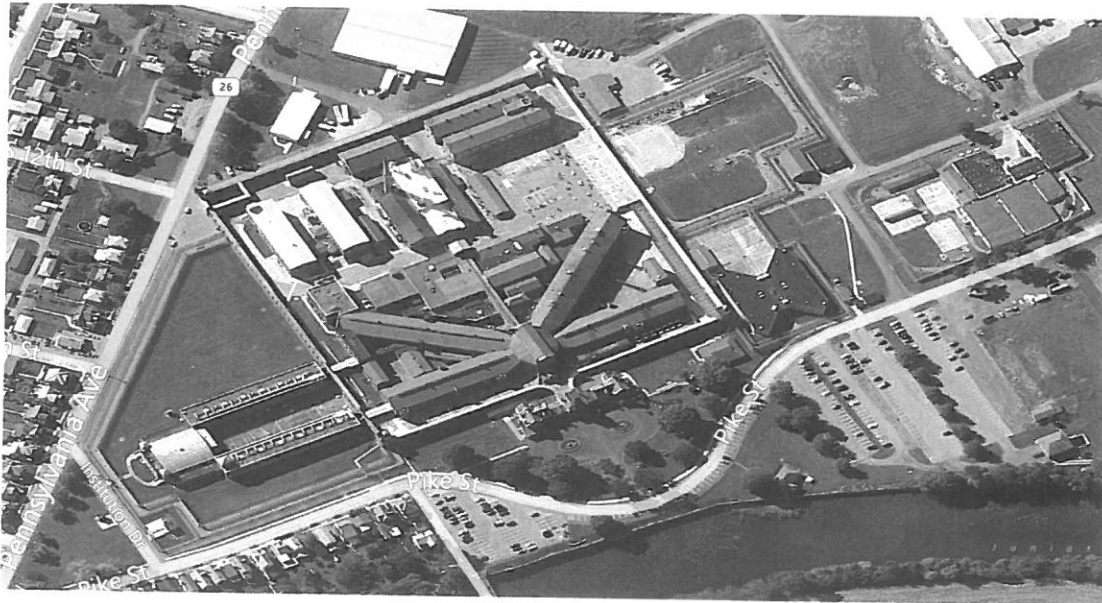
Wanamaker Building

Philadelphia, Pennsylvania

- Diesel, 900 kW, 277/480 volts
- Diesel, 1200 kW, 277/480 volts



*State Correctional Institute (SCI) Huntingdon
Smithfield Township, Pennsylvania*



ELECTRICAL DISTRIBUTION UPGRADE

Located in the rural West-Central Pennsylvania Allegheny Mountains, the SCI-Huntingdon is a historic facility constructed around the turn of the century. The maximum security correctional institution houses 2,155 adult male inmates on a site of approximately 60-acres.



Commissioned by the Commonwealth as the prime firm, H.F. Lenz Company is providing engineering services for the electrical power distribution upgrades of the four original cell blocks, plus the two newer cell blocks. Generally, replacement will occur of existing feeders, wiring, panel boards and switches, including interface with the back-up power systems.

Other project issues include:

- Analysis & design to meet higher electrical demand
- Selective coordination analysis
- Arc fault current calculations
- All construction work will occur within the secure perimeter
- Phasing will occur to minimize outages
- Construction phase administration

The project is currently in the design phase. Construction Budget \$2,200,000



State Correctional Institution (SCI) Benner Benner Township, Pennsylvania

NEW CORRECTIONAL FACILITY

H.F. Lenz Company provided electrical design services for the 630,000 sq.ft. prison facility situated in close proximity to the existing SCI Rockview complex in Bellefonte, Pennsylvania.

The new SCI Benner Township facility will accommodate a housing capacity of 2,300 inmate beds. The facility incorporates 8 butterfly housing wings adapted from the Pennsylvania Department of Corrections prototype.

The new institution is designed around a campus plan and is comprised of buildings that support inmate programming services. The main core building includes visitation, medical, inmate receiving/discharge, dining, vocational shops and a central regional laundry.

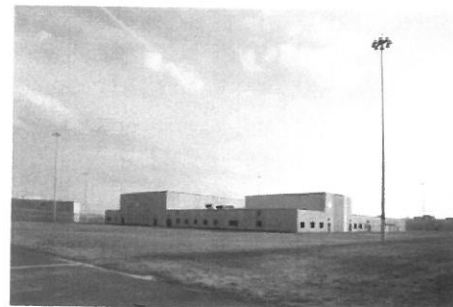
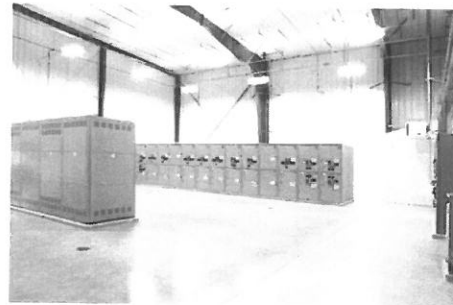
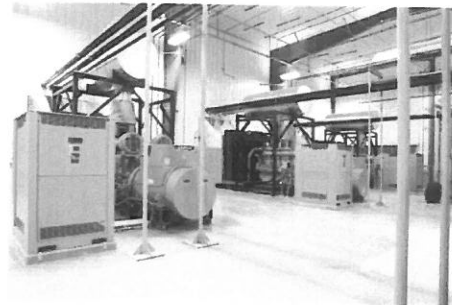
Accessed across the outdoor yard is the campus chapel, educational and vocational classrooms, library, barbershop and the physical education center.

The electrical services for the prison facility included:

- 12.47 kV double ended main-tie-main service entrance with campus-wide dual loop feed underground distribution systems
- 6000 kW of standby power providing 100% back-up to the entire facility via three 2000KW, 12.47 kV diesel generators. Stand-by power is tied into the facilities 12.47 kV campus underground distribution system via 15kV paralleling switchgear.
- Campus-wide metering/monitoring system with PLC control of remote circuit breakers featuring touch-screen human interface
- Campus-wide fire alarm system with fiber optic backbone
- Integrated low-voltage lighting control

The entire complex will receive LEED® certification and will incorporate innovative design options including geothermal and high energy efficient systems.

Construction on the \$179 million facility was completed in 2013.





HIGH-TEMP HOT WATER & CHILLED WATER DISTRIBUTION SYSTEM

Located in the rural North-central Pennsylvania, the SCI-Coal Township was constructed in 1992. The medium security correctional institution includes 1,000 cells and consists of fourteen buildings situated on approximately 185-acres. Buildings at the facility are:

- Administration Building
- Central Utility Plant
- Warehouse Building
- Central Services Building
- Six Level 3 Housing Units
- One Level 2 Housing Unit
- One Level 5 Housing Unit
- Program Services Building

Commissioned by a Law Firm, H.F. Lenz Company is providing engineering services as a third-party expert consultant, with regard to the existing design & installation of approximately 6,000 lineal feet of piping, components & supports. Our services included:

- Visual observations of existing conditions
- Meetings
- Review of design and installation documents
- Pipe stress analysis & reaction load determination
- Resolution assistance with any piping system issues

System Built: 2008

Approximate Construction Cost: \$2,800,000



MAIN STEAM TUNNEL RENOVATIONS

The H.F. Lenz Company provided mechanical, electrical, and structural engineering, and construction monitoring services for the replacement of the steam lines and the repair of the main steam tunnel at Camp Hill State Correctional Institute (SCI). Steam is distributed to most buildings at SCI by an underground tunnel system which was originally installed in circa 1938. There have been several modifications and repairs since then; however, the tunnel itself and much of the piping were original when the project began. One of the major requirements of this project was that the steam system remained in service to the entire institution throughout the construction with the exception of some shutdowns which will be minimized in duration. Due to the nature of the facility, security issues were also a main priority. In order to properly size the steam piping, we first performed an analysis of the steam loads for each of the buildings. This analysis was based on available reference drawings, connected equipment loads, and building area calculations.



The HVAC portion of this project consisted of replacing portions of the steam lines within the existing tunnel which contained a 16" low-pressure steam line, a 6" high-pressure steam line, a 6" low-pressure return, a 6" high-pressure return, and a 4" pumped condensate line. The majority of the buildings were fed with high-pressure steam; however, a few were fed with both high-pressure steam and low-pressure steam. Buildings that were served with high-pressure steam were typically provided with pressure reducing stations.

In order to reduce the amount of piping within the tunnel, the low-pressure line was eliminated completely. All buildings were supplied with high-pressure steam. Buildings which had been utilizing low-pressure steam were provided with new pressure reducing stations.

In order to maintain steam service throughout the course of construction, the new steam lines were routed on the opposite side of the tunnel as they were loaded originally. This allowed the new lines to be installed and tested prior to a relatively short shutdown in which the new lines were energized and the old lines disconnected.

Existing expansion loops were replaced with slip-type expansion joints. This was due to the piping being routed along the opposite walls from the existing loops.

The scope of the electrical work for the project consisted of removing the existing lighting and service receptacles from the steam tunnel. High abuse fluorescent lighting fixtures are located on 40' centers the length of the tunnel. GFI service outlets were provided on 120' centers the length of the tunnel.

The project is currently under construction.

Completion Date: 2014
Construction Cost: \$3,425,000



NEW PRISON FACILITY

H.F. Lenz Company provided HVAC, electrical, plumbing, fire protection, and civil/site engineering services for a new 700,000-sq.ft. prison facility situated on a 200 acre site in Forest County, Pennsylvania.

The new facility provides programming, support services and infrastructure for approximately 2,000 inmates. **The maximum security restricted housing unit contains 96 cells, and there are nine general population housing units which each have 128 cells.** The support services building includes a visiting room, health care, kitchen/dining, commissary, maintenance and correctional industries. The chapel, education and recreation services are part of the program services building.

In addition to site adaptations, the scope of work involved several design studies to update the prototypical design to meet current technology and code requirements and the Pennsylvania Department of Corrections standards.

To maximize cost efficiency, a top-down review of all aspects of the program was utilized to reduce the estimated construction cost by several million dollars. The project involved a phased design approach which divided the complex into twenty-seven bid packages to allow early award of long-lead items.

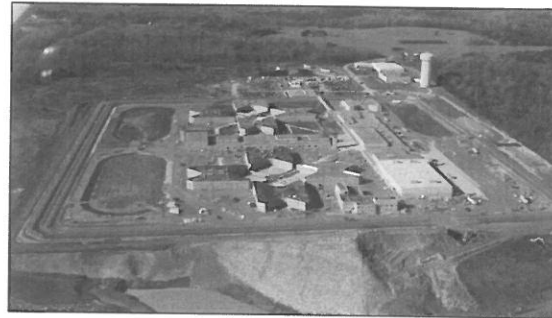
MEP features of the project included:

The **mechanical piping systems** for the prison facility included:

- 1800 BHP high temperature hot water boilers and central distribution piping including 4,800 LF of underground piping
- 1200 ton chilled water plant with central distribution piping (4,800 LF underground)
- Hot water converters and building hot water heating piping
- Dietary steam boiler and steam and condensate piping system for food service equipment

The **electrical services** for the prison facility included:

- 12.47 KV main-tie-main service entrance with campus-wide dual loop feed underground distribution systems



- Dual 2000KW diesel generation emergency power plant; 100% backup of entire facility
- Campus-wide metering/monitoring system with PLC control of remote circuit breakers featuring touch-screen human interface
- Campus-wide fire alarm system with fiber optic backbone
- Integrated low-voltage lighting control

The **plumbing and fire protection systems** for the prison facility included:

- A 5,000 LF underground domestic water distribution service main loops the perimeter of the site
- Domestic hot and cold water distribution piping supplies fixtures and equipment in each building; a hot water return circulation piping system is designed to adequately provide hot water to remote fixtures
- Natural gas distribution system, service pressure regulation, and equipment connections throughout the facility
- Sanitary sewer and storm water collection systems for each building and site
- Standard and penal/security plumbing fixtures were specified and located throughout the facility as required
- Special design considerations were required to identify the location, route, and accessibility of distribution supply lines, maintenance valves, and fittings for tamper resistant and security measures
- One million gallon elevated water storage tank system
- Fire suppression system including 2,500 gallon per hour fire pump and 5,000 LF of underground eight inch fire water distribution loop
- Fully sprinklered fire suppression for each building



*Federal Correctional Institution
Loretto, Pennsylvania*



Federal Correctional Institution. The \$4.3 million project for the Federal Bureau of Prisons was completed in 1990.

The H.F. Lenz Company provided full-scope engineering and surveying services to develop design and construction documents for improvements at this 550-inmate facility. A variety of improvements were designed to increase the security level from minimum security (Level 1), to medium security (Level 3).

The project included:

- New sally port/vehicular sally port with officers' station
- New reception building and new security station with monitoring consoles
- New maintenance garage five bays wide (included oil separator)
- Conversion of an existing garage to a segregation unit
- Security hardware and fixtures consisting of cameras, microwave detectors and motion detectors
- Double row of perimeter fencing 12 ft. high with razor wire and approximately one mile in length
- New perimeter roadway
- High-intensity roadway lighting
- Ground-mounted uplighting for building security
- Perimeter detection system
- Design of an emergency power system to serve the new perimeter lighting and new buildings
- Extension of site utilities to new buildings
- Stormwater handling
- Underground diesel and gasoline fuel storage tanks
- Reconstruction of outdoor recreation area
- Complete topographic survey of the site
- Construction observation and administration services



Mr. Stano 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 is responsible for coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions. He is experienced in the design of building systems including air and water heating/cooling systems, automatic temperature control systems, boiler plant systems, central chilled water plants, fire detection and suppression systems, energy management systems, building lighting and power distribution systems. He has been responsible for mechanical design and/or project management of the following projects:

State Correctional Institution - Huntingdon
Smithfield Township, Pennsylvania
Engineering services for the electrical power distribution upgrades of the four original cell blocks, plus the two newer cell blocks

State Correctional Institution
Camp Hill, Pennsylvania
Replacement of the steam lines and repair of the main steam tunnel

U.S. Post Office and Courthouse
Erie, Pennsylvania
Renovation of a federal building including holding cells, and construction of a new 50,000 sq.ft. connecting structure

U.S. Post Office and Courthouse
Scranton, Pennsylvania
Renovation of a 150,000 sq.ft. historic building including holding cells, and a new 120,000 sq.ft. annex

U.S. Post Office and Courthouse
Harrisonburg, Virginia
Multiple phase project including new courtroom, building-wide fire alarm system, and renovation for U.S. Marshals Service

U.S. Post Office and Courthouse
Wheeling, West Virginia
Renovation including holding cells, and new 90,000 sq.ft. addition

U.S. Courthouse and Federal Building
Williamsport, Pennsylvania
U.S. Marshal Service renovations and additions

U.S. Post Office and Courthouse
Lynchburg, Virginia
Design of a new 65,000 sq.ft., five-story courthouse building and renovation of an existing three-story, 25,000 sq.ft. historic schoolhouse including holding cells

University of Pennsylvania
Philadelphia, Pennsylvania
- *New double ended unit substation stations in Harnwell House, Rodin House and Harrison House*
- *New 13.2 kV automatic switchgear was replaced in Chemistry Complex*
- *13.2 kV switchgear replacements are in design for the Van Pelt Dietrich Library Complex and the John Morgan School of Medicine facility*

Federal Office Building
Huntington, West Virginia
Complete electrical system renovation

Education

Bachelor of Science, Architectural Engineering, 1982, Pennsylvania State University

Experience

H.F. Lenz Company 1982 - 1985 and 1988 - Present
James Posey Associates, Inc. 1985 - 1988

Professional Certification

Licensed Professional Engineer in Pennsylvania • Maryland • New Jersey • Ohio • West Virginia

Professional Affiliations

National Society of Professional Engineers • American Society of Heating, Refrigerating, and Air-Conditioning Engineers • International Society for Pharmaceutical Engineering



Mr. Mulhollen is experienced in the design of power distribution systems, control systems, emergency power systems, lighting and emergency lighting systems, fire alarm systems, security, sound, and telecommunications systems for correctional, educational, institutional, industrial, health care, and commercial facilities. Mr. Mulhollen's project experience includes (* indicates prior experience):

State Correctional Institution – Huntingdon
Smithfield Township, Pennsylvania
*Engineering services for the electrical power
distribution upgrades of the four original cell
blocks, plus the two newer cell blocks*

State Correctional Institution*
Camp Hill, Pennsylvania
– *Electrical distribution upgrade and boiler
plant upgrade. The electrical distribution was
upgraded from 2400V to 12.47KV. Existing
medium voltage equipment was replaced
completing the upgrade to the entire
distribution system*
– *Electrical distribution upgrade and Gate
House. Project involved upgrading the
existing 2400V distribution system to a
12.47KV distribution system with automatic
transfer between two utility sources*

West Virginia Department of Corrections*
Neola, West Virginia
*New Anthony Correctional Center and the
renovation of four additional support facilities.
New electrical service distributed via
underground ductbanks. New exterior lighting*

Erie County Jail*
Erie, Pennsylvania
Electrical design of correctional facility

State Correctional Institution
Camp Hill, Pennsylvania
*Replacement of the steam lines and repair of the
main steam tunnel*

University of Pennsylvania
Philadelphia, Pennsylvania
– *New double ended unit substation stations in
Harnwell House, Rodin House and Harrison
House*
– *New 13.2 kV automatic switchgear was
replaced in Chemistry Complex*
– *13.2 kV switchgear replacements are in
design for the Van Pelt Dietrich Library
Complex and the John Morgan School of
Medicine facility*

Temple University
Philadelphia, Pennsylvania
*New South Gateway 1,500 student high-rise
residence halls, major dining pavilion and
retail complex*

University of Charleston
Charleston, West Virginia
New 55,000 sq.ft., student residence hall

U.S. Post Office and Courthouse
Lynchburg, Virginia
*Design of a new 65,000 sq.ft., five-story
courthouse building and renovation of an
existing three-story, 25,000 sq.ft. historic
schoolhouse*

Naval Surface Warfare Center*
West Bethesda, Maryland
*Building 5, electrical distribution upgrade
totaling \$300,000*

Education

Bachelor of Science, Electrical Engineering, 1988, The Pennsylvania State University

Experience

H.F. Lenz Company 1999 - Present
L. Robert Kimball & Associates 1996 – 1999
Leach Wallace Associates, Inc. 1990 – 1996 • E.A. Mueller, Inc. 1988 – 1990

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • Alabama • California • DC • Florida • Maryland •
Missouri • New Jersey • Nevada • Massachusetts • New Mexico • North Carolina • Ohio • Tennessee
• South Carolina and DC

Professional Affiliations

Institute of Electrical and Electronics Engineers, Inc.

Mr. Mickle is responsible for the design of complete electrical systems for facilities. Mr. Mickle's key responsibilities include: coordination of building electrical, telephone and cable television services with respective utility companies; lighting design; power system design; fire alarm system design; sound system design; clock system design; stage lighting design; nurse call system design; emergency power system and lighting system design; electrical connection of HVAC, plumbing, and other miscellaneous equipment; writing of specifications; design of 5 KV and 12 KV underground electrical distribution systems; design of electrical systems for health care facilities; design of roadway lighting systems; design of electrical systems for military facilities; checking of plans and specifications for quality control; project management, building study and evaluation. His project experience includes (*indicates previous experience):

State Correctional Institution
 Benner Township, Pennsylvania
Electrical engineering services for the design of a new 2,000 inmate correctional institution. The facility is designed to attain LEED Certification

Cambridge Springs and Forest County, State Correctional Institutions, Pennsylvania
Electrical Engineer for the bridging documents for new 128 cell addition to an L-3 facility (Cambridge); and new 96 cell addition to an L-5 facility (Forest County)

Forest County State Correctional Institution
 Marienville, Pennsylvania
Electrical Engineer for a new 700,000 sq.ft. prison consisting of 19 buildings to house 2,000 inmates. The project included design of 1800 BHP high temperature hot water boilers and 4,800 LF of underground high temperature hot water distribution piping

Smithfield State Correctional Institute*
 Smithfield Twp, Huntingdon, Pennsylvania
Replacement of the facility's existing 1.0 MW, 4.16 kV emergency generator that served the prison campus with a new 1.5 MW, 4.16 kV emergency generator. Due to the critical nature of the facility, the design required that temporary emergency service be maintained to the facility throughout the project. Project also included the upgrade of the facilities 5 kV primary service entrance switchgear

Pine Grove and Coal Township State Correctional Institutions, Pennsylvania
Electrical Engineer for the bridging documents for new 128 cell additions to each L-3 facility

Greensburg State Correction Institute*
 Greensburg, Pennsylvania
Campus electrical upgrade project

Pine Grove State Correctional Institute*
 Pennsylvania
Design of the facility's campus medium voltage electrical distribution system. Project included two 2.0 MW emergency generators, medium voltage paralleling switchgear, and SCADA (Supervisory Control And Data Acquisition) system

Huntingdon State Correctional Institute*
 Huntingdon, Pennsylvania
Various renovation projects

Education

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

Experience

H.F. Lenz Company 2001 - Present
 The EADS Group, Inc. 1991 - 2001
 Brinjac Kanbic & Associates 1988 - 1991

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania, Arizona, Delaware, Maryland, North Carolina, Texas, Virginia and West Virginia

Professional Achievements and Affiliations

Institute of Electrical and Electronics Engineers (IEEE)



ALDERSON

Federal Correctional Institution

- Complete HVAC, electrical, and fire protection for conversion of training rooms into production areas

BECKLEY

**U.S. Army COE, Baltimore
Army Reserve Center**

- New 300-member reserve center with training building and maintenance shop

BLUEFIELD

Kee Federal Office Building and Courthouse

- Building-wide HVAC renovation study and design
- Boiler replacement
- Chiller replacement
- Second floor district courtroom
- First floor magistrate courtroom

BRIDGEPORT

The Pete Dye Golf Club

- New clubhouse

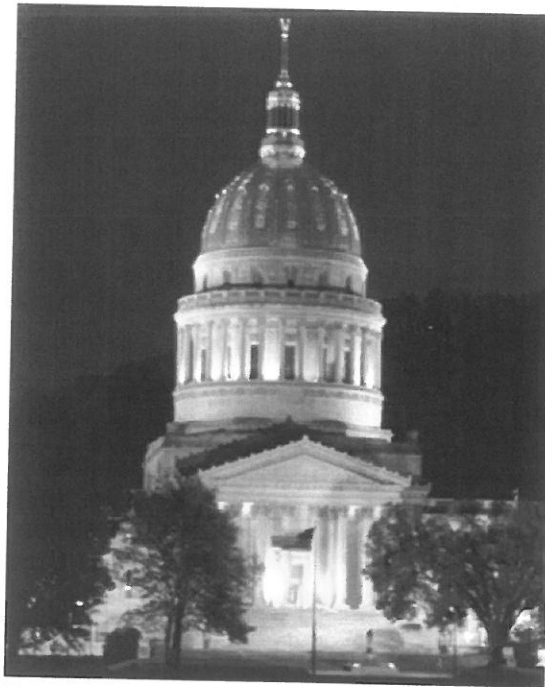
CHARLESTON

**Health Sciences Center
Medical Education Building**

- Evaluation, recommendations, and upgrade of HVAC system



Robert C. Byrd Courthouse. Selected mechanical system commissioning activities were performed for this new seven-story, 325,000 sq.ft. courthouse.



West Virginia State Capitol. The Capitol campus buildings comprise a total area of 1.3 million sq.ft.

McJunkin Corporate Headquarters

- New three-story, 73,500 sq.ft. glass curtain wall structure with an open office plan

Robert C. Byrd U.S. Courthouse

- Mechanical system commissioning activities
- Third party professional opinion review

University of Charleston

- New Design/Build 50,000 sq.ft. dormitory - Fast-track (design start to construction complete; less than one year)

West Virginia State Capitol

- Chilled water study
- Underground chilled water distribution (Phase I)
- 4,800-ton chiller plant

CLARKSBURG

Veterans Affairs Medical Center

- Electrical design

Waldo Hotel

- Feasibility study



EVANSDALE

West Virginia University

- Utility survey

FAIRMONT

Fairmont State College

- Campus-wide electrical distribution study, Hunt Haught Hall, Jaynes Hall, and Colebank Hall electrical distribution upgrades

GRAFTON

Grafton High School

- Addition and renovations

HARPERS FERRY

National Park Service

- Site analysis for new museum

HUNTINGTON

First Huntington National Bank

- Banking facility and data center

Huntington Federal Building

- Electrical system renovation and study and design throughout entire building
- Toilet room renovations

KINGWOOD

U.S. Army COE, Baltimore

Army Reserve Center

- New 100-member reserve center with training building and maintenance shop

MARTINSBURG

Federal Office Building and Courthouse

- Modernization of elevators
- Toilet room upgrades
- Building-wide HVAC renovation design
- Second floor judge's chamber

Martinsburg Computer Center

- Handicapped accessibility renovations

Martinsburg Medical Office Building

- New Medical Office Building

National Park Service Building

- HVAC study

U.S. Coast Guard Operations Building

- Industrial hygiene study and report
- HVAC study



Fairmont State College. H.F. Lenz Company upgraded the electrical distribution system for Hunt Haught Hall.

Veterans Affairs Medical Center

- Cafeteria/dining hall renovations

MORGANTOWN

Central Office of the State College and University System

- WVNET major maintenance and facility improvements

Jakes Run Head Start

- Heating, plumbing, and electric renovations

Monongalia County Board of Education

- Feasibility evaluations (26 buildings)

Morgantown High School

- Design of addition and renovations

**Robert C. Byrd Health Sciences Center
West Virginia University**

- Building evaluation and master plan
- Miscellaneous electrical and fire protection infrastructure upgrades
- Renovation of Gross Anatomy, Oral Surgery, Dental Suite, and Morgue
- Renovation of electron microscope area
- Elevator replacement
- Pathology Amphitheater renovation
- Radio and television services master plan



WVU - Charles V. Wise Jr. Library. This project features a 124,000 sq.ft. new addition and major renovations to the existing 86,000 sq.ft. library building.



Sandstone Visitor/Orientation Center. The project site is located in a remote section of West Virginia, with few public utilities available as energy sources for the project

**Ruby Memorial Hospital
West Virginia University Hospitals**

- North/Northeast Addition
- Chilled water system study
- Chilled water pump replacement
- Data center emergency generator
- Obstetrics area renovation
- Patient holding area renovation
- Elevator penthouse ventilation

Staggers Federal Office Building

- Building Evaluation Report
- Prospectus Development Study
- Parking garage structural investigation
- Extension of fire alarm system and addition of fireman's capture and recall to passenger elevators

St. John University Parish

- Master plan

**U.S. Army COE, Baltimore
Army Reserve Center**

- New 300-member reserve center with training building and maintenance shop

West Virginia University

- Brooks Hall Science Building - Mechanical/electrical retrofit for code compliance (65%)
- Stansbury Hall Athletic Building - HVAC retrofit (65%)
- Charles Wise Library expansion
- Beechhurst boiler plant demolition

- Health Sciences Center boiler plant conversion study
- High-density book storage facility
- Potomac State College chiller/cooling tower replacement
- White Building East Bay Chiller Plant commissioning services
- Evansdale Campus Utility Survey
- Agricultural Sciences South Addition
- New Alumni Center
- PRT Hot Water Heating System

NEW MARTINSVILLE

PPG Industries, Inc.

Natrium Plant

- Office HVAC systems

**NEW RIVER GORGE NATIONAL
RIVER**

SUMMERS COUNTY

National Park Park Service

Sandstone Visitor / Orientation Center

- New 12,500 sq.ft. visitor center - designed to achieve a LEED™ Platinum Rating

PARKERSBURG

Federal Office Building

- Building Evaluation Report

RAINELLE

U.S. Army COE, Baltimore

Army Reserve Center

- New 200-member reserve center with training building and maintenance shop



SNOWSHOE

Anna Jarvis Elementary School

- Addition and renovations

Snowshoe Ski Resort

- Rimfire Lodge - New 150-unit hotel/condominium complex
- Camp #4 - Residential townhome-style condominiums
- Employee housing
- Highland House - New 70-unit hotel/condominium complex
- The Seneca Building - new Residence building - Design of a 67 unit condominium building with administrative space
- Expedition Station - new Residence building - Design of a 94 unit condominium building with ski rental and retail space
- Jr. Bringham Building - new check-in facility multi-purpose building housing restaurant and lounge, offices, and ski lift ticket counter
- Shavers Center Evaluation

THURMOND

National Park Service

- Thurmond Row Stabilization Project

WIERTON

U.S. Army COE, Baltimore

Army Reserve Center

- New 200-member reserve center with training building and maintenance shop



Snowshoe Mountain Resort. Rimfire Lodge is the cornerstone of the new mountain top Village Center.

WHEELING

Fireworks World

- New Fireworks wholesale and distribution center

Oglebay Resort

- Building systems design

U.S. Army COE, Baltimore

Army Reserve Center

- New 150-member reserve center with training building and maintenance shop

U.S. Federal Building and Courthouse

- Boiler replacement study and design
- Study and rehabilitation of deteriorated parapet wall
- Fourth floor renovation
- \$7 million addition



Oglebay Resort. Oglebay is a unique 1650 acre resort in Wheeling, West Virginia, featuring cottages, fine dining, indoor pool, fitness room, massage therapy areas, two championship golf courses and the 30-acre Good Zoo.



Wheeling Federal Building and Courthouse. Renovations included an historic courtroom, main lobby, and corridors. The new addition provides for separate, secure circulation paths for prisoners, and judicial staff.

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety, understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

H.F. Lenz Company

 Company)

Robert F. Stano

 Authorized Signature)

Robert F. Stano, P.E., Vice President

 Representative Name, Title)

814-269-9300

814-269-9301

 Phone Number)

 (Fax Number)

May 5, 2014

 Date)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: COR61694

000005

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input checked="" type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

H.F. Lenz Company

Company

Rubio, S. Treino

Authorized Signature

May 5, 2014

Date

: This addendum acknowledgment should be submitted with the bid to expedite document processing.

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: H.F. Lenz Company

Authorized Signature: *Ruth S. Steno* Date: May 19, 2014

State of Pennsylvania

County of Cambria, to-wit:

Taken, subscribed, and sworn to before me this 19th day of May, 2014.

My Commission expires July 13, 2014.

AFFIX SEAL HERE

NOTARY PUBLIC

Maryann L. Cover
Purchasing Affidavit (Revised 07/01/2012)

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Maryann L. Cover, Notary Public
Windber Boro, Somerset County
My Commission Expires July 13, 2014
Member, Pennsylvania Association of Notaries

Architect and Engineering Services for the
West Virginia Division of Corrections
Emergency Power Systems and Electrical Issues at
Huttonsville Correctional Center
Randolph County, West Virginia

Req # COR61694

Thank You
For the Opportunity
to
Submit our Qualifications
for this project!



H.F. LENZ
COMPANY