NEW CONSTRUCTION – MANUFACTURING FACILITY

PROJECT LOCATION: Pressure Technology – Alachua, FL
EXPERIENCE OF: Mitchell Gulledge Engineering, Inc.
ROLE IN PROJECT: MEPF Design Sub-Consultant

CONSTRUCTION COST/METHOD
Est. $3,000,000
Construction Manager

COMPLETION DATE
December 2021

PROJECT STAFFING
Project Manager:
Andrew Mitchell, PE, CxA
Mechanical Lead:
Craig Gulledge, PE, CxA
Mechanical Designer:
Evelyn Dicks, PE, CxA
Plumbing Lead:
Andrew Mitchell, PE, CxA
Electrical Lead:
Peter Rizov, PE

PROJECT OWNER
Pressure Technology, Inc.
Chris Laub
415 Patricia Drive
Warminster, PA 18974

BUILDER
Scorpio.
Sebastian Canal
3911 West Newberry Road
Gainesville, FL 32607

PROJECT ARCHITECT
Level Architecture & Interior
Adam Gayle, AIA
720 SW 2nd Avenue, Suite 105
Gainesville, FL 32601

PROJECT ENGINEER
Mitchell Gulledge Engineering, Inc.
Andrew Mitchell, PE, CxA
210 SW 4th Ave
Gainesville, FL 32601
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PROJECT SUMMARY:

Mitchell Gulledge Engineering was contracted as the MEPF engineering consultant to design a new manufacturing facility for Pressure Technology, Inc. in Alachua, Florida. Pressure Technology, Inc. (PTI) offers a broad range of hot isostatic pressure processing capabilities using modern, state-of-the-art facilities and technology. PTI provides these services to a multitude of high-tech industries including aerospace, medical, ceramics, electronics, precision casting, powder metallurgy, and additive manufacturing. This new 12,000 SF manufacturing and metalworking facility for PIT includes spaces such as manufacturing areas, a large process pit, maintenance shop, production areas, offices, conference room, control center, and bulk manufacturing storage.

The HVAC mechanical scope of work consisted of package DX rooftop units, redundant process exhaust fans, sidewall propeller fans, motorized and interlocked intake louvers, general exhaust fans, electric infrared heaters, ductless mini-splits, and ductwork distribution systems and components. The plumbing scope of work included domestic water and sanitary waste/vent provisions for the restrooms and fixtures in the warehouse area. New plumbing fixtures, sump pump for the process pit, electric storage water heater, and recirculating pump were also provided. The electrical scope of work consisted of building power, building lighting, fire alarm, fire sprinkler monitoring, and access control systems. Fire protection systems were also provided for the entire facility. As the project's MEPF sub-consultant, Mitchell Gulledge Engineering provided construction administration services including site inspections, submittal reviews, and as-built documentation.

State-of-the-art manufacturing and technology requires second-to-none facility infrastructure and engineering. Mitchell Gulledge Engineering worked alongside the project's architect and PTI engineering and ownership team to provide a robust and sophisticated engineering design that precisely met PTI's manufacturing needs. Since project inception, Mitchell Gulledge Engineering participated in each of the design phase review meetings while providing valuable feedback regarding the project's scope and budgetary limitations. Additionally, early in the design phase, Mitchell Gulledge Engineering coordinated with the civil engineer and local utility company to ensure all new building utilities were coordinated with the site before any major design efforts were completed. We also conducted detailed review meetings of the proposed MEPF building design to ensure the Owner's requirements and requested preferences were satisfied and coordinated across all trades. This new construction project showcases our ability to provide premium MEPF engineering consultant services to leading industry, high-tech manufacturing companies.

PRESSURE TECHNOLOGY, INC.