



ELECTRICAL UPGRADE – CRITICAL INFRASTRUCTURE

PROJECT LOCATION: Brammer Bio - Thermo Fisher Scientific – Alachua, Florida

EXPERIENCE OF: Mitchell Gullledge Engineering, Inc

ROLE IN PROJECT: Prime Professional – MEPF Design

CONSTRUCTION COST

\$1,950,000

COMPLETION DATE

Summer 2020

PROJECT STAFFING

Project Manager:

Craig Gullledge, PE, CxA

Mechanical Lead:

Craig Gullledge, PE, CxA

Electrical Lead:

Andy McCaddin, PE

PROJECT OWNER

Thermo Fisher Scientific

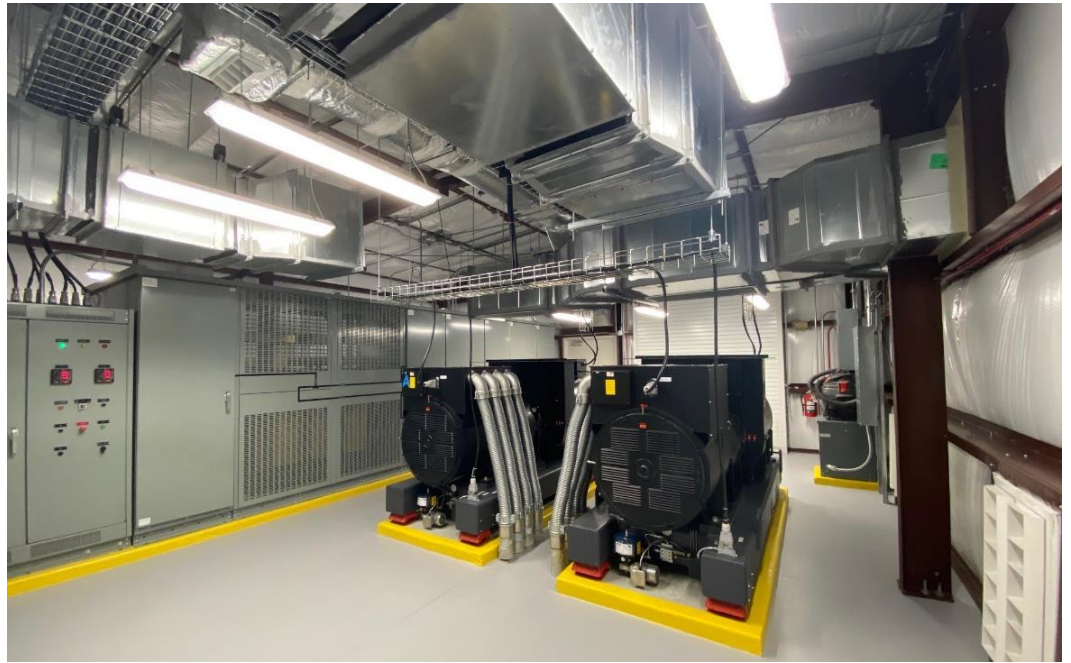
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Viral Vector Services

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BUILDER

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PROJECT ENGINEER

Mitchell Gullledge Engineering, Inc.

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PROJECT SUMMARY:

Brammer Bio is a gene therapy development and manufacturing facility located in Progress Park in Alachua, Florida. This project consisted of upgrading the existing standby power and UPS systems serving the laboratory process development facility. The overall goal of this project was to deliver clean power to highly specialized laboratory equipment and instrumentation. Initial pre-design efforts included topographic site survey work, evaluating the existing electrical infrastructure/utilities, coordinating with the existing building services, and strategic planning for the forthcoming design implementation. The project’s design scope of work included a new 1,000 SF pre-engineered metal building (PEMB) to accommodate a new 2,500 Amp electrical switch room and two new 1,000 kVA rotary UPS systems. The new UPS’s and ventilation system were integrated into the existing JCI building automation system for remote monitoring and control. Power, lighting, lightning protection, and fire alarm systems were also included in the project’s scope to serve the new PEMB.

Mitchell Gullledge Engineering served as the prime professional and coordinated the efforts of the project’s sub-consultants (architect and civil engineer). This project’s tight design timeline was critical with no flexibility to waiver and required forward planning to ensure the design and construction window was met.

This complex renovation project for Brammer Bio required highly coordinated and sophisticated pre-planning and design execution efforts from the design team. Mitchell Gullledge Engineering had the foresight to review and understand the end goals of the owner, the existing utility infrastructure constraints, and what pre-design coordination efforts were required in order to fully develop the project’s executed scope of work. As the prime professional, we are able to successfully lead a design team and provide premium consulting services for extremely complex HVAC and electrical systems. Understanding the design of critical systems as well as the utility impacts is paramount to providing services for every project.

