



Princeton University Princeton Plasma Physics Laboratory Commissioning

PROJECT INFORMATION

CONCORD DIVISION

Commissioning

PROJECT LOCATION

Plainsboro, NJ

MARKET

Laboratory

SERVICES

Commissioning

CONSTRUCTION COST

\$25 Million

REFERENCE

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PROJECT SUMMARY

In order for PPPL to continue to conduct their mission activities, they require modern, flexible R&D space with the proper suite of utilities and installed infrastructure to enable efficient and safe operations. Closing these capability gaps will foster greater collaboration, improve existing facility utilization, decrease utility costs, increase energy efficiency, reduce greenhouse gas emissions and help achieve DOE sustainability goals. A few of the project goals include:

- Future “state of the art” science laboratories enabling PPPL to maintain a leadership position in scientific research.
- Adaptable facilities accommodating change in scientific research over a period of 10 to 20 years with minimal modification.
- Focus on interdisciplinary science with “high performance” or “high tech” laboratory space.
- A variety of spaces that encourage social interaction between researchers where by arrangement of R&D, office space, common areas and shared resources shall foster a culture of collaboration.
- Modern infrastructure to support the demands of technical experiments.
- Energy-efficient and environmentally sustainable buildings achieving DOE sustainability mandates.
- Mid-bay and high-bay construction to accommodate various experiment groups and experimental staging.

Concord Engineering is providing MEP/FP systems’ commissioning as it applies to the following phase of this project:

The PPPL IOI (Infrastructure & Operations Improvement) Project will set the stage for substantially improving the R&D laboratory spaces and providing the needed office spaces. This phase includes renovation of the C-Site MG to repurpose it as a machine shop. This will allow a consolidation of the shops into one, centrally located space, and will free up the RESA space to be repurposed as a storage facility. This will allow all trailers to be emptied and removed. Approximately 20,000 sq. ft. of miscellaneous storage located throughout the laboratory in various spaces not intended as storage would be emptied as well. This phase also includes renovation of the LSB Annex to provide additional offices. This space will allow for relocation of those personnel in Mod VI so that the temporary structure can be demolished. The renovated space will also provide the needed offices in subsequent years to accommodate temporarily those who are currently located in L-Wing and in the Theory and Administration Wings.