

"With significant emphasis placed on sound quality issues, Marvin Waxman Consulting Engineers designed the mechanical systems for this nationally renowned radio station."

Client: Bower Lewis Thrower Architects
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Marvin Waxman Consulting Engineers (MWCE), a subsidiary of Urban Engineers, provided the mechanical systems design, including the heating, ventilation, and air conditioning systems for the WXPN (88.5 FM) Studio Project.

HIGHLIGHTS:

- HVAC Design
- Plumbing Design
- Sound and Acoustic Coordination
- Budgetary Constraints

The project consisted of renovating a two-story building of approximately 15,000 SF for WXPN 88.5 Radio, a nationally renowned, non-commercial, and member-supported radio service of the University of Pennsylvania.

MWCE also designed the plumbing and electrical systems. All designs were undertaken with significant consideration toward sound quality.

The upper floor serves as marketing, programming, and administrative offices while the technical facilities are located on the ground floor. The technical facilities include the radio station's studios and production spaces.

The designs of the new mechanical and plumbing systems were required for the normal operation as well as the critical operation spaces. The normal operation and sound critical areas are served from new water cooled variable air volume systems.

MWCE overcame the significant challenges of working within strict budgetary constraints in addition to meeting the client's goals despite design restrictions due to limited physical space.

