



U.S. Courthouse, Foley Square New York, NY

This courthouse complex is 900,000 sq ft and is the largest of its kind in the nation. The facility, which consists of a 27-story tower rising above a 9-story base, accommodates 710 employees and includes 43 courtrooms, a ceremonial courtroom, 43 new chambers, 55 detention cells, and support space for the District and Circuit Courts as well as the U.S. Marshal's Service. The project cost \$259 million to construct.

The mechanical and electrical systems were designed to be flexible, simple to operate, energy efficient, and to offer a high degree of space comfort and indoor air quality. High efficiency electrical refrigeration machines generate chilled water for distribution to floor-by-floor variable air volume (VAV) air handling units. Low temperature supply air is distributed to VAV fan powered terminal units that maintain constant air motion in the occupied space.

The fan powered terminal units, through the induction of warmer above-ceiling plenum air, incorporate a heat recovery feature for use in perimeter space heating prior to the energizing of heating coils. The refrigeration system is provided with a "water side" economizer for energy conservation.

Dedicated pathways for electrical, data and voice communication systems were included to accommodate the installation of sophisticated audio/visual systems in each courtroom. A state-of-the-art Building Automation System (composed of a direct digitally controlled energy management system, a building-wide security system and a fire alarm/life safety system) was also included. Security documents were prepared in accordance with the U.S. Marshal's guide-

lines for courthouses indicating the installation of such high technology security devices as a card reader access control system, CCTV, duress alarms, electrical door locks for holding cells and other secured spaces, motion detection system, and a stand-alone security system for the U.S. Attorney's Office. The entire facility was designed to meet federal guidelines set forth in the U.S. Marshal's Standards, PBS-PQ.100, Court Design Guide.

Architects: Kohn Pedersen Fox with
SimmonsArchitects

