Building Enhancements: Life Safety Features
2 WTC, 3 WTC, 4 WTC

STRUCTURE

• The building structures are designed with increased robustness and redundancy of steel.

• Reinforced concrete walls protect the towers’ core for the full height of the towers, including the lobby, exit stairways and elevators.

EVACUATION

• Exit stairs are 20 percent wider than required by NYC Building Codes. Located within the reinforced concrete core, the stairs permit a more rapid evacuation and allow for easier access by emergency responders.

• Four fire stairways exit directly to the outside, avoiding possible confusion associated with exiting through the building lobby. Transfer is possible between stairways.

• Widely-separated stairs are equipped with emergency lighting and glow-in-the-dark paint and are pressurized to resist the intrusion of smoke.

• Areas of refuge located within stair enclosures are provided for people with disabilities.

ABOVE-CODE DESIGN

• Fireproofing material used to protect the steel structure is 10 times as adhesive and 50% more fire resistant than required by building codes.

• Service elevators protected by impact resistant shaft construction, pressurized elevator vestibules, and water-resistant construction, designed to increase elevator reliability in an emergency.

• Dual standpipes and water storage capacity for the buildings’ sprinkler system exceed code requirements.

• Fresh air intake system is located at the top of the towers include multiple levels of high performance filters.