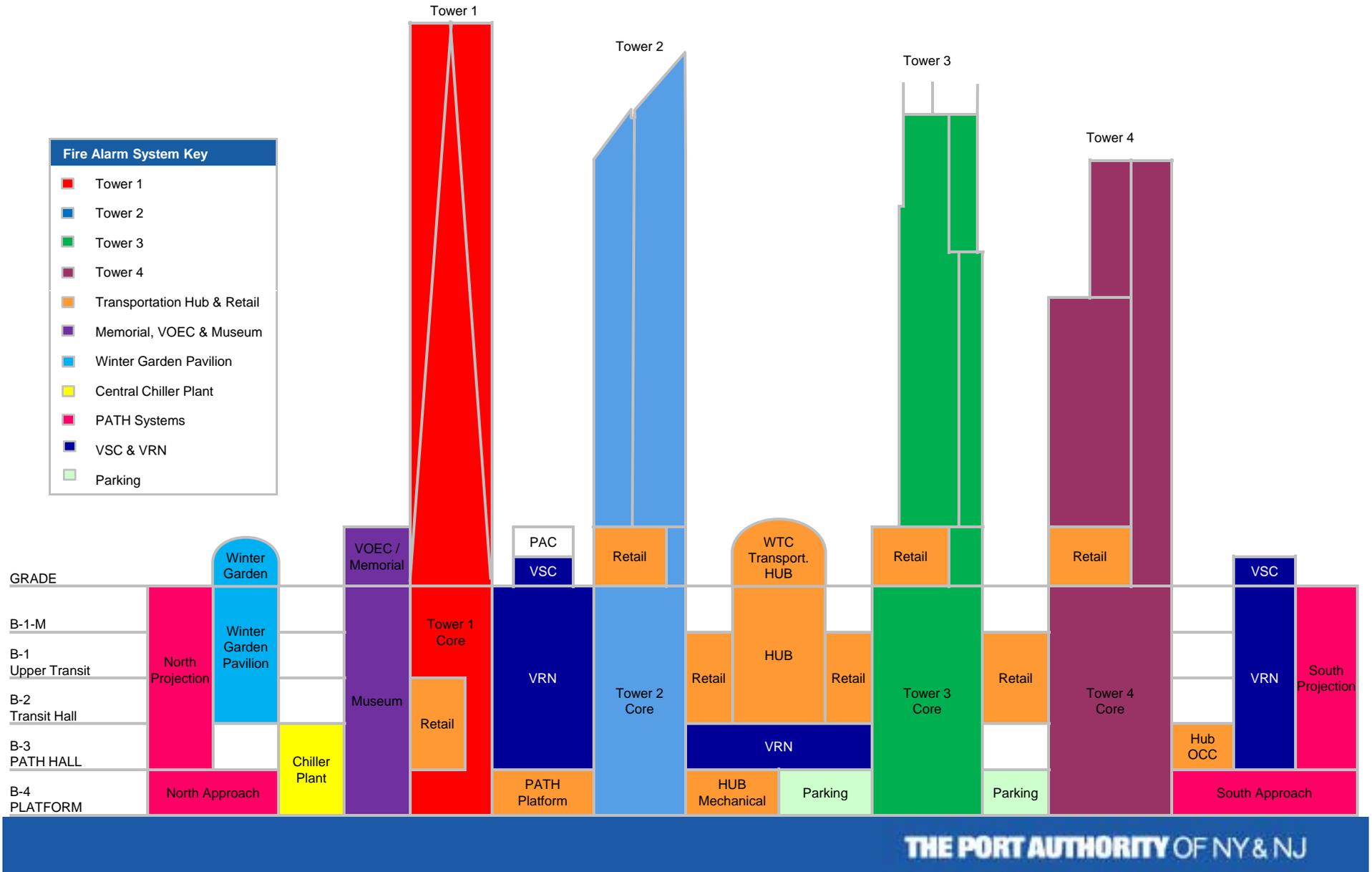


World Trade Center – Systems Integration Planning Authorization

WTC Redevelopment Subcommittee
February 24, 2011

WTC Systems Integration – Sectional View of Stakeholder Controlled Areas



WTC Systems Integration – Overview

- Plan to integrate and coordinate site-wide systems is required to:
 - Address building compatibility and operability issues
 - Save long-term operating and maintenance costs
 - Optimize site-wide security connectivity
 - Develop common system interfaces
 - Support centralized operations
 - Coordinate various systems across program boundaries
- WTC systems integration is essential to operability, marketability, and the commercial success of the WTC Site

WTC Systems Integration – Operational Review

- Operational Review of Systems including:
 - Fire and Life Safety Systems
 - Smoke Evacuation & Fire Command Stations
 - Building Management Systems
 - Utilities Program & Sub-metering
 - High-Security Keying System
 - Level Identification Coordination
 - Vertical Transportation Monitoring Systems
- Integration of these systems will provide cost effective operational and building connectivity upon opening

WTC Systems Integration – Planning Authorization

- \$8.1 million planning authorization includes:
 - \$4.4 million for operational analysis consulting services
 - \$2.5 million for WTC stakeholder A&E design services
 - » Fire Alarm & Life Safety Systems
 - » Smoke Evacuation Systems
 - » Utilities Sub-meter Program
 - \$1.2 million for general and administrative and financial expense