



Replacement of Substation No.9

Project Authorization

Committee on Capital Planning, Execution and Asset Management

June 25, 2014

Overview

- PATH Substations No. 7, 8, 9, and 14 provide traction power to support PATH rail operations between Journal Square and Newark Penn Station
- Substations No. 7, 8, 9, and 14 sustained extensive damage during the October 2012 storm
- Substation No. 9 is 42 years old and at end of service life
- Spare parts are no longer available for major equipment
- Recommendation to locate 27kV equipment from outdoors to indoors

Substation No. 9 Existing/Proposed Location Plan



Scope of Work

- Design and construction of a new two-story steel framed building (elevated above 100-year flood level)
- Removal of existing Substation No. 9
- Final design for furnishing, installation and commissioning of the traction power electrical equipment and the associated structure to house the substation

Economic Impact

- 250 Total Job-Years
- \$17 million in wages
- \$92 million in Economic Activity

Estimated Cost/Schedule

- **Total project Cost: \$59.5 million**
(includes \$2.6 million in previously authorized planning)
- **Award of Contracts:**
 - Engineering Services: \$5 million
- **Staff Cost Estimates:**
 - In-house: \$4.8 million
 - Consultant: \$5 million
- **Schedule (Design & Construction):**
 - Design: Start 3rd quarter 2014; End 3rd quarter 2015
 - Construction: Start 4th quarter 2015; End 4th quarter 2018