

The existing PATH Substation No. 9 is over 35 years old and nearing the end of its service life. Spare parts are no longer available creating maintenance concerns. The 27kV equipment used for Substation No.9 is presently outdoors and exposed to the elements. The Port Authority's Office of Emergency Management has recommended placing this equipment indoors thereby protecting it from the elements. In addition, the demand for electrical power is anticipated to increase with PATH's purchase of new PA-5 train cars and the subsequent increases in PATH train service.



Burns is contracted with the Port Authority of New York and New Jersey to prepare a basis of design, basic specifications, basic contract drawings and an independent cost estimate for the replacement of PATH Substation No. 9. Specific disciplines include electrical engineering/traction power, electronics (communications, CCTV, access control, etc.) and civil engineering. Our task is to prepare Design Build contract (Bridging) documents for this replacement including:

- 26.4kV Medium Voltage Switchgear (PSE&G line-up and PATH line-up)
- Traction Power Transformer, AC bus duct and Rectifier
- 600V DC Switchgear, high-speed DC breakers and DC bus duct.
- Auxiliary Power
- UPS system
- Underground Duct Bank System
- SCADA System and Equipment
- Lighting
- Fire Alarm System
- Substation Communications Systems (Communication Infrastructure)
- Security/Access Control System
- CCTV System
- Fiber Optic Cable infrastructure.
- Parcel determination for temporary land acquisition and easement agreements
- Utility coordination and Relocation
- Storm Water Management Plan
- Sanitary and Water Service Connections