

MNR Harmon Shop Replacement Program-Phase III Electrical Engineering Design for Locomotive Wash Facility

A part of the Harmon Shop Replacement Project, a new locomotive wash shop was built as an independent facility, spanning 10,000sf., with 3 levels reaching 45 feet high, with a pit for undercarriage inspection.

This is a completely wet area and washing is done with alkaline water solution at high pressure. AG designed the electrical system, including panel-boards for regular power and emergency power, lighting, small power, and main power distribution. High voltage wash equipment powers at 480 volts. Lighting foot candle level is set at 50FC due to the presence of mist at all times. A combination of high bay HID lighting fixtures and fluorescent fixtures were used in addition to exit and emergency lighting.

As the work area is highly corrosive by necessity, appropriate equipment selection and material requirements were critical factors to delivering a successful project.



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Croton on Harmon, NY

Owner:

MTA Metro North RR

Prime: **Jacobs**

Completion Date: 2017

Services Provided: Electrical