MNR Harmon Shop Replacement Program-Phase III Locomotive Wash Facility

A part of the Harmon Shop Replacement Project, the MNRR is building a new Locomotive/Loco Engine Wash Shop independent from the Locomotive Shop. This is a 10,000 sq. ft. facility, 45 feet high with 3 levels, roof and a pit for under-carriage inspection. This is a completely wet area and washing is done with alkaline water solution at a high pressure.

Locomotives are washed continuously in the wash facility after it is repaired/ refurbished in the adjacent loco shop/engine shop. Prior to washing, the under-carriage inspection is conducted in the pit and then the whole carriage is washed both bottom & exterior. After the wash, the locos are driven away for service.

AG was responsible for designing complete electrical system, panelboards for regular power and emergency power, lighting, small power and main power distribution at 480 volts for wash equipments, etc, and grounding and other miscellaneous low voltage distribution such as alarms, controls, etc. Equipment selection and material requirement poses a great challenge to the design as it is a highly corrosive area. 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 are used in addition to exit and emergency lighting.

Location:

Poughkeepsie, NY

Owner:

Metro North Railroad

Services Provided:

Electrical

A.G. CONSULTING ENGINEERING, PC

A.G. Consulting Engineering, PC
131W 33rd Street, 12B
New York, NY 10001
Phone: 212-268-0950
agceng@agceng.com