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Virginia Commonwealth University Life Sciences Building
Richmond, VA



Executive Summary

The electrical system of The Virginia Commonwealth University Life Sciences Building is a typical radial system with one main power source and therefore on primary feeder. It is provided from an existing utility feeder located to the northwest of The VCU Life Sciences Building. Emergency power is also generated on-site through the use of a 900kW diesel generator.

The NEC building design load was calculated to check the existing feeder sizes for the main feeders. The NEC 2005 Code was referenced in performing these calculations. Everything was found to be correctly sized with growth and voltage drop considerations taken into effect.