

# R56 AUDIT

## Executive Summary

### Ensuring maximum system performance

Communications network downtime significantly impacts daily operations and much of potential downtime can be the result of non-compliance to minimum communications site standards. If the equipment isn't properly grounded and incorporates surge suppression, it can significantly jeopardize your network, but it also puts those who maintain the site at significant risk. Originally developed by Motorola in 1987 to provide internal guidelines and requirements for the installation of communications equipment, infrastructure and facilities, the "Standards and Guidelines for Communication Sites" (R56) form the minimum standards required to provide expected system performance, reliability and equipment longevity. The Motorola guidelines have since become the recognized standard in the industry and serve as the most complete and rigorous specification for the protection of communications system equipment installed at public safety and commercial wireless communications sites.

### R56 compliance audit

R56 compliance audits provide a one-time, on-site evaluation of your communications site to determine compliance to minimum R56 standards. Using Motorola's compliance audit checklist, on-site evaluation includes identifying and troubleshooting chronic site-related issues, including power line anomalies or excessive lightning hits. After the site audit is complete, Motorola provides a comprehensive summary report with digital photos that identify gaps in compliance and recommendations to bring the site up to standard. The report provides the information required to take appropriate corrective action to help minimize susceptibility to site-related failures.

Motorola's Audit Team is comprised of highly trained, certified, and experienced field personnel who stay current with industry standards and have the tools and methodology to perform a comprehensive analysis of a communication site.

### Value proposition

- **Maximize system availability:** Determining the site's susceptibility to power line surges or lightning threats helps prevent future problems and increases network availability
- **Reduce maintenance costs:** Site audits help determine the root cause of equipment failure or damage that could be the result of surge currents from power line anomalies or nearby lightning activity at the site
- **Improve situational awareness:** As part of the audit process, Motorola provides a site documentation binder that provides a baseline of site characteristic conditions to help inform and prepare servicers for repair/maintenance visits
- **Enhance safety:** Compliance to minimum R56 standards ensures that servicers and system managers working at the site will have a safer working environment

### The Motorola difference

For over 75 years, Motorola has designed, manufactured, installed, and maintained mission-critical communications systems. With decades of experience and an in-depth knowledge of what it takes to ensure a fault-free communications system, Motorola set the industry standard for fixed equipment installation requirements. As part of the R56 audit, Motorola developed an inclusive checklist that will enable management personnel to make informed decisions and take corrective actions as needed.



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