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a substation is the transformer. The transformer is responsible for changing the voltage of electricity passing through it. This is necessary because the voltage of electricity coming from power plants is too high for safe use in homes and businesses. Another important component in a substation is the circuit breaker. Circuit breakers protect electrical equipment from damage by interrupting the flow of electricity when there is an overload or short circuit. Finally, every substation must have at least one grounding electrode. Grounding electrodes provide a path for excess electricity to flow into the ground, instead of damaging equipment or causing fires. These are just a few of the most important components in a substation. Without these key pieces of equipment, a substation would not be able to function properly and keep homes and businesses safe from electrical hazards. A substation is a critical part of the electricity grid, and regular maintenance is essential to keeping it running smoothly. This blog post outlines a basic checklist for substation maintenance, including tasks like checking equipment for damage or wear, testing electrical circuits, and cleaning up the facility. By following this simple routine, substations can avoid costly downtime and disruptions to power service. Regular substation inspections help electric utilities maintain and repair their facilities to keep costs down and power flowing to their customers. This page will discuss: Electrical substation maintenance inspection requirements The purpose of an electrical substation inspection Benefits of using a substation inspection app What are the requirements of an electrical substation maintenance inspection? Electrical substation maintenance involves planned periodic inspections to ensure the structural and functional integrity of the facility. It should cue the inspector to check all aspects of the substation, from the disconnect switch to the vacuum circuit breaker to the foundation of the structure to identify any repairs that are necessary. Who uses a substation inspection checklist and why? Electrical engineers, utility workers, and other utility staff can use this inspection checklist to ensure the substation is sound and functioning properly to avoid equipment failure that can result in power outages, property damage, and costly repairs. Why use an electrical substation inspection app? The electrical power and voltage equipment within a substation require regular inspections and maintenance. With a substation inspection app, all of the inspection records are stored in one place (securely, in the cloud), which eliminates the need for filling out, transcribing, and filing paper checklist. This also means inspection reports can be easily accessed from anywhere to document compliance efforts and maintenance records to protect your company from liability.