



ScadaCam® Helps Electric Utilities Meet NERC Physical Security Mandates



Some of the North American Electric Reliability Corporation (NERC) reliability standards and guidelines deal with physical security of critical assets, particularly electric substations. Pivotal Vision's™ ScadaCam Intelligent Surveillance Technologies can provide electric utilities of all sizes with a technology platform to comply with the emerging standards and integrate the various technologies that may be added or may already be in place at critical facilities.

Security guidelines specific to electrical substations are listed below along with the features of ScadaCam that enable an electric utility to demonstrate compliance with the guidelines.

| Guideline | ScadaCam Feature |
|---|--|
| Security policy in place to manage and control access. | NA |
| Physical security perimeters clearly identified. | System can be configured to capture motion within the identified perimeter and ignore motion outside. |
| Access in and out should be recorded and maintained. | System archives are based on preset triggers, such as verified detected motion or access control device operation, that include visual images as well as the desired information from electronic access control systems. |
| Access in and out should be monitored with an authorized process. | Remote operations or security personnel can visually verify before authorizing access to sites without electronic access control or monitor and validate after entry at sites with electronic access control. |
| Record the identity of all personnel gaining access. | System captures visual images that can be downloaded and archived to identify and document personnel access to critical facilities. |
| Background screening | NA |

In addition to providing unique and exceptional technological capabilities and performance, ScadaCam can meet an electric utility's expanded physical security requirements with few, if any, additional personnel. This is due to ScadaCam being a fully automated surveillance system. ScadaCam provides an information platform to integrate a variety of security assets an electric utility may deploy. It can enhance the functionality of other security assets, such as access control, security personnel and motion detection.

| Guideline Feature | Security Asset | ScadaCam Applicable |
|---------------------|----------------------------|--|
| Restrict Access | Fences, gates, barriers | NA |
| Limit Access | Smart locks, access card | Able to integrate various electronic access control devices as access control detection signals. |
| Alarming on Entry | Access card, alarm systems | Alert operation or security personnel of entry triggered by access control device and display it on ScadaCam command center monitors. |
| Access Control | | Provide visual verification and documentation of those in substation. |
| Intrusion Detection | Motion detectors, alarms | Automated surveillance able to detect, verify, track and project trajectory of potential intrusion. |
| Reporting Events | | Potential intrusion events are captured and archived while operations and security personnel are alerted and can remotely do a visual inspection. |
| Staffing Site | Guards, Operators | Able to dispatch personnel to a site quickly when an event occurs rather than manning a site full time. |
| Vehicle Barrier | | NA |
| Adequate Lighting | Lighting | Cameras can be outfitted with infrared lights or thermal imaging. Cameras can be used to provide 24/7 coverage without the expense of adding visible lighting. |
| Signage | | NA |
| Security Program | | NA |

For more information on ScadaCam and how it can help you meet NERC mandates, please contact us at 1-866-798-7499, or visit us online at www.pivotal-vision.com.