

Audit or Evaluation is there a difference?

You Bet! Compare SPGS America's comprehensive Holistic Facility Electrical Protection Evaluation with your present audit results.

SPGS, not only AUDITS, we also inspect, verify and evaluate all systems.

Our Services:

- Annual Inspection Service Program
- Arc Flash Analysis
- Battery Testing
- Computer Protection
- Consulting
- Design Engineering
- Detailed Engineering
- Environmental Monitoring
- Fault Location
- Grounding Alterations
- Grounding Grids
- Lighting Protection Systems
- Power Conditioning
- Power Installations
- Project Management
- Power Protection
- Power Disturbance Issues
- Power Quality Issues
- Protection Coordination Studies
- Selected Power Load Testing
- Short Circuit Analysis
- Soil Resistivity Testing
- Surge Protection Analysis
- Surge Protection Devices
- Thermographic Imaging
- Training
- Uninterruptible Power Systems
- Workshops

- Utility AC Service Entrance
- Utility AC Transformer
- Non-utility AC Transformer
- Metallic Raceways
- Metallic Conduits
- AC Receptacles
- Junction Boxes
- Identification Labels
- Connections
- Grounding Conductor Verification
- Ground Bar verification
- Frame and Aisle Lighting
- AC Electrical Grounds
- Lighting Panels
- Lighting Fixtures
- AC Distribution Panels/Cabinets
- AC Transfer Switches

Mechanical

- Exothermic Connections
- H-Tap, C-Tap Connections
- Crimp Connections

Standby Power

- Generator Associated Equipment
- Fuel Tanks / Buried, above ground, indoors)
- Piping, conduits and Auxiliary Framing
- Louvers and Metallic Enclosures
- Engine Start and Control Equipment
- AC Transfer Switches
- AC Electrical Grounds

Power

- Battery Power Plants
- Battery Frames
- Battery Return Bus
- Power Feeders
- Shared Power Plants
- Protected AC Supply Power Plants
- Converter Plants
- Ringing Plants
- Ground Window Bars
- Isolated Ground Systems
- Non-Isolated Ground System
- Single Point Ground System
- Halo Ground System
- Multiple Point Grounding Systems
- Framework Grounding
- Grounding Conductors

Did they inspect the following:

Building Ground

- Principal Ground Point
- Vertical & Horizontal Equalizer
- Primary Building Electrodes
- Secondary Office Electrodes
- Earth Field Resistance
- Connections
- Identification Labels
- AC Equipment Ground
- Building Ground Bars

Electrical

- AC Building Service Board

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**Safety Protection
Grid Solutions**

- AC Distribution Panels/Cabinets
- Connections
- Identification Labels

Distributing Frames & Protectors

- Ground Bars
- Grounding Conductors
- Connections
- Identification Labels
- Protector Identification
- Main Frame and AC Receptacles
- Ladder Rack and AC Receptacles

Telephone Cable Area

- Cable Vault
- Cable Shield Isolation Gap
- Cable Shield Isolation Gap Capacitor
- Cable Entrance Field Side Ground Bar
- Cable Entrance Building Side Ground Bar
- Grounding of Fiber Cable Metallic Shields
- Grounding of Cable Shields to first grounding point outside of building

Information Technology Network

- Computers
- Ethernet
- Incidental Ground (CAT 5)
- Servers
- Uninterruptible Power Supply (UPS)

Ground Systems

- Isolated Ground System
- Integrated Ground System
- Logic Ground/Quiet Ground
- Single Point Grounding System
- Power Distribution Systems

Equipment or Components

- Horizontal Equalizers
- Ground Window Bars
- Grounding Conductors
- Internal AC Power Supplies
- Frame Grounds
- Nearby Metallic Objects
- AC Receptacles
- Lighting Fixtures
- Storage Cabinets/Work Areas
- Maintenance Area Equipment
- Vendor Grounding Specifications
- Connections
- Identification Labels
- Peripheral Units
- Cable Runways and Auxiliary Frames
- Fuse Panels

Miscellaneous

- Radio Equipment
- Towers
- Antennas
- Work Stations
- Controlled Environmental Vaults
- Miscellaneous Cable Entrance Areas
- Metallic Fences
- Metallic Doors
- Metallic Ice Bridges
- Lightning Rod Systems
- Raised Floor
- Cable Television
- Co-Locations

