

# CHECKLIST FOR SURGE ASSESSMENT

Company/Address: \_\_\_\_\_ Date: \_\_\_\_\_

Contact: \_\_\_\_\_

Note: Ideally an up-to-date one-line electrical drawing of the building to be protected facilitates the selection of the proper surge protective devices (SPDs) and helps verify the correct line voltages (Wye/Delta) are identified. Regardless, a complete walk through site survey of the facility is recommended to ensure all critical locations are identified and targeted for surge protection. This includes the electrical switchgear at the service entrance, all distribution panels and critical branch panels, as well as key point of use locations including but not limited to the datacenter and UPS equipment, automatic transfer switches and generators, security cameras and recording devices, fire alarm and annunciation equipment, telecom and network closets/racks, industrial and factory automation equipment, and HVAC heating and cooling systems. In addition, protection for all copper conductors that penetrate the structure should be considered for full facility protection.

## IEEE EMERALD BOOK RECOMMENDED LOCATIONS

- Y  N Service Entrance (8.6.3) SPD *If none present, note for follow-up and proper sizing later.*
- Y  N Distribution Panels (8.6.4) SPD *If none present, note for follow-up and proper sizing later.*
- Y  N Critical Branch Panels (8.6.4) SPD *If none present, note for follow-up and proper sizing later.*

### Service Entrance

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Comments: \_\_\_\_\_

### Main Distribution Panel(s)

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Comments: \_\_\_\_\_

### Critical Branch Panel(s)

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Comments: \_\_\_\_\_

## OTHER KEY POINT-OF-USE LOCATIONS

- Y  N UPS input & bypass (8.6.5) SPD *If none present, note details for follow-up and proper sizing.*
- Y  N Industrial & Factory Automation Electronic Equipment (8.6.6) SPD *If none present, list appropriate panels requiring or desiring SPD protection or filtering.*
- Y  N Automatic Transfer Switch input (8.6.8) SPD *If none present, note details for follow-up.*
- Y  N AC units including condensers and dry coolers (8.6.8) SPD *If none present, note details for follow-up.*

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## OTHER KEY POINT-OF-USE LOCATIONS (continued)

Y  N Each electrical conductor penetrating a structure (8.6) SPD *If none present, note for follow-up and proper sizing later*

## OTHER PANELS/POINT-OF-USE LOCATIONS

UPS input & bypass or generators: \_\_\_\_\_

ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Industrial & Factory Automation Electronic Equipment: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Automatic Transfer Switch input: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

AC units including condensers and dry coolers (HVAC equipment): \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Each electrical conductors that penetrate the building structure: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

## OTHER POSSIBLE CONTROL PANELS

Recording devices: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Fire alarm panels: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Telecom panel: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Network closest/racks: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_

Other mission critical equipment: \_\_\_\_\_

(ID: \_\_\_\_\_) Voltage (Wye/Delta)? \_\_\_\_\_ Panel rating? \_\_\_\_\_



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