Arc Flash Data Collection Checklist

What to capture in the field for an IEEE 1584 arc flash study. Check each item per piece of equipment. arcroute

SITE _____ BUILDING / ROOM _____ COLLECTED BY _____ DATE _____

UTILITY AND SOURCES

- ☐ Available 3-phase fault current at service
- ☐ Single-line-to-ground fault current
- ☐ X/R ratio (from the utility, in writing)
- ☐ Utility protective device ahead of service
- ☐ Generators: kVA/kW, voltage, X"d, X/R
- ☐ Other sources and switching: UPS, ATS, ties

TRANSFORMERS

- ☐ kVA rating
- ☐ Primary and secondary voltage
- ☐ Percent impedance (%Z), X/R if listed
- ☐ Winding connection and grounding
- ☐ Tap setting
- ☐ Nameplate photo

CABLES AND BUSWAY

- ☐ Conductor size
- ☐ Copper or aluminum
- ☐ Parallel sets per phase
- ☐ Length (measured or from route)
- ☐ Raceway: steel conduit, nonmagnetic, tray
- ☐ Busway: manufacturer, rating, length

CIRCUIT BREAKERS AND FUSES

- ☐ Manufacturer and type/model
- ☐ Frame size and number of poles
- ☐ Sensor or rating plug
- ☐ Trip unit model
- ☐ Long-time pickup and delay
- ☐ Short-time pickup and delay
- ☐ Instantaneous setting
- ☐ Ground fault pickup and delay
- ☐ Interrupting rating (kA)
- ☐ Fuses: manufacturer, class, ampere rating
- ☐ Relays: model, CT ratio, settings
- ☐ Photos: breaker label and trip unit

EQUIPMENT AND ENCLOSURES

- ☐ Type: switchgear, switchboard, panelboard, MCC
- ☐ Nominal voltage
- ☐ Bus rating and short-circuit rating
- ☐ Enclosure height, width, depth
- ☐ Electrode configuration
- ☐ Fed from (upstream device)
- ☐ Feeds (downstream loads)
- ☐ Existing arc flash label and its date
- ☐ Photos: nameplate, front, label
- ☐ Large motors: hp, voltage, starter type

Safety: opening covers on energized equipment is work for qualified persons using the PPE and procedures your NFPA 70E program requires. Plan outages or energized work permits before the walk.

Skip the clipboard. ArcRoute reads nameplates and trip settings from photos and builds a model ready for SKM or EasyPower. **arcroute.ai**