

PARALLELING SWITCHGEAR SERVICES

Preventative Maintenance



INSPECTION SERVICES

(Annual Recommendation)

- Inspect switchgear cabinets and enclosures for integrity
- Vacuum control cabinets and wipe down the exterior of the switchgear
- Inspect switchgear accessory devices for integrity and operation
- Check switchgear station batteries and charging system
- Check switchgear controller (DMC) for active alarms
- Check controller (DMC) history event/alarm log and record findings
- Verify all indicators and alarms operate properly (where applicable)
- Download capture file and settings image for the DMC touchscreen and the network
- Check control wiring, routing, terminations, support and lashings
- Inspect circuit breaker rails, guides, rollers, and shutter mechanism.
- Annotate all trip settings of circuit breakers
- Manually parallel each generator
- Verify all meters for accuracy (where applicable)
- Verify PLC is operational
- Check PLC fault tables
- Replace PLC battery
- Ensure system operates in automatic mode
- Ensure generators load share properly (Building load or load-bank required)
- Check load control and load demand (Building load or load-bank required)
- Ensure generators run through cool down and shut down accordingly



OPTIONAL MAINTENANCE SERVICES

- Verify smooth operation of circuit breaker racking mechanisms (In and Out)
- Remove circuit breaker ARC chutes and inspect main contacts
- Perform primary and secondary circuit breaker injection testing
- Circuit breaker mechanical, thermal, dielectric, trip, overload, and short-circuit testing
- Perform thermal scan of cables, terminations, bus work and related current carrying components
- Verify proper torque settings on bus and feeder cable terminations (Recommend 3-5 yrs)
- Perform HIPOT testing/record results (Recommend 3-5 yrs)
- Perform DLRO testing/record results (Recommend 3-5 yrs)
- Perform insulation resistance testing/record results (Recommend 3-5 yrs)



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Arc flash boundary and available incident energy shall be identified and marked on equipment being serviced or maintained. [2018 NFPA 70e – 130.5(A)-(H)].

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