Design Phase
Service Entrance – Design Review

Project: **Project Name (eB #)**

☐ Service entrance routing shown, noted and coordinated on drawings
☐ Main service disconnect located in first, readily accessible space
☐ Verify service equipment dimensions are shown correctly on drawings
☐ Verify path and clearances to get equipment into space
☐ Ground rod electrodes and GEC routing clearly shown on drawings
☐ Firestop penetrations through fire rated construction
☐ Verify required dedicated and working space requirements and required egress
☐ If over 112.5-kVA, verify if installed in a 1-hour fire rated space
☐ Verify all electrical equipment is shown on one-line
☐ Verify all overcurrent protective device ratings
☐ Verify all metering requirements
☐ Provide short circuit ratings for all electrical distribution equipment
☐ Provide preliminary arc flash ratings for all electrical distribution equipment
☐ Provide overcurrent protective device coordination
☐ Verify voltage drop for all feeders over 200-feet
☐ 480Y/277V & 1000A - provide GFPE
☐ Verify system bonding jumper sizes
☐ Verify system bonding/main bonding jumper size
☐ Verify all ground conductor sizes
☐ Has disconnection or planned interruption been coordinated through EH&S or CIT or Utilities and Owner?
☐ Will a new service entrance be required? If so, is duct bank sized and routed properly?
☐ Were appropriate Standards followed?

☐ Is the one-line diagram included complete with conduit schedule, AIC ratings, etc? (Distribution best conveyed as one-line rather than riser diagram.)

☐ Is temporary electrical service (lighting/power) needed for construction?

☐ Is TVSS included at main switchboard or panelboard?

☐ Abandoned wiring, devices, and equipment are completely removed? Are items to be scrapped or stored (is disposal hazardous)?

☐ Is there a plan to protect new equipment from damage and/or dust during construction?