

**Electric Service Requirements Manual (“ESR”) White Paper
for INTERNAL and EXTERNAL use
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**Subject: Gated and Enclosed Spaces
Section 4**

Section 4.1.3 of the 2015 ESR manual features a section on gated and enclosed spaces in Section 5.

It instructs the contractor to contact the Power Company whenever a padmounted transformer is enclosed by fencing or firewalls. This white paper supplements the section by providing the details on proper clearances from metallic and non-metallic materials.

The figures below are meant to be general, addressing both single-phase and three-phase padmounted transformers. Clearances from enclosing surfaces and switching cabinets are not discussed; however, any confined work area should be designed with the same clearances.

An extra foot of side clearance was added in Figure 1 below, to provide workspace around an open door.

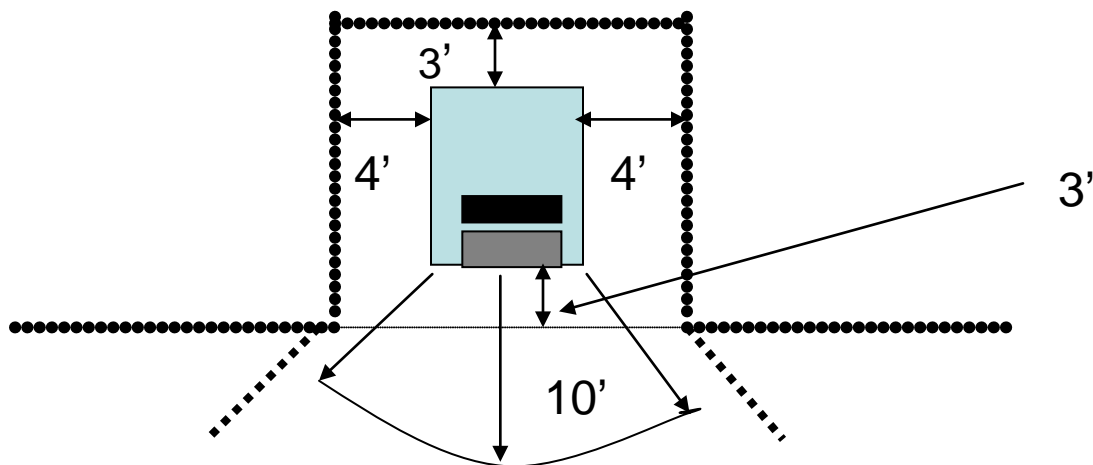


Figure 1 – Clearances Around Non-Metallic Equipment in an Enclosed Space

Requirements

1. The fence enclosure shall be large enough for adequate workspace.
2. The gate shall open such that the front work zone is not obstructed.
3. The gate or fence shall not limit the removal of the transformer.
4. Metallic fence or gate components may not be within six feet of the transformer.
5. The Power Company’s lock shall be on the gate.
6. Requirements for clear zones near combustible surfaces shall be followed.
7. The location shall be accessible to Power Company trucks.
8. The location shall be within 15 feet of a maintained, drivable surface.
9. A metal gate must be greater than six feet from the padvault lid.
10. The gate of the enclosure must be no less that the width of the lid plus 3 feet minimum, on each side.

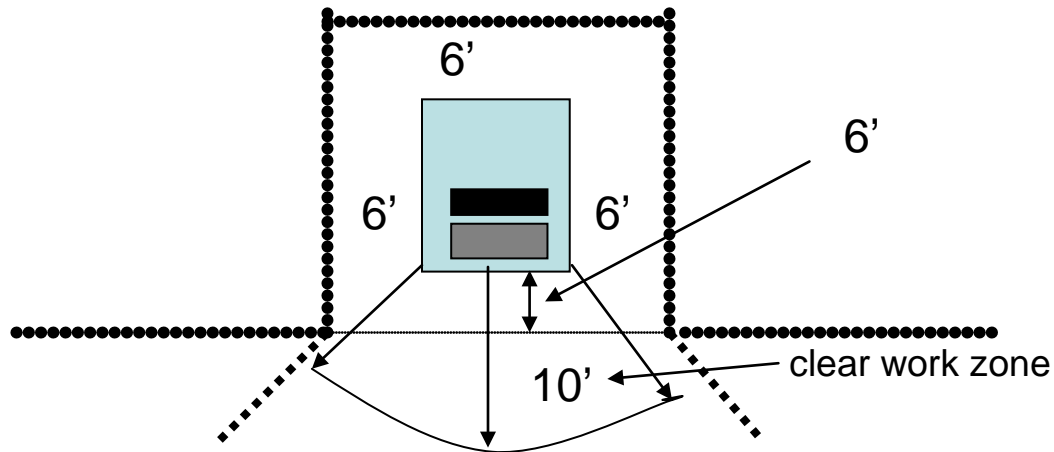


Figure 2 – Clearance Around a Metallic Fenced Enclosure

Requirements

1. The protected area shall be large enough to prevent contact between the metal fence and the transformer.
2. No metallic fence or gate may be within six feet of the pad vault lid.
3. The gate shall open such that the clear work zone is not obstructed.
4. The gate or fence shall not limit the removal of the transformer.
5. The Power Company's lock shall be on the gate.
6. Requirements for clear zones near combustible surfaces shall be followed.
7. The location shall be accessible to Power Company trucks.
8. The location shall be within 15 feet of a maintained, drivable surface.
9. The gate of the enclosure must be no less than the width of the lid plus six feet minimum, on each side.