

Doctors Park

Lexington Operations Center - Vault/Manhole Inspection Form

Inspected by: B. Stull

Date: March 10, 2022

Vault/Manhole location: Doctors Park

Substation(s) & circuit(s) feeding the vault/manhole: American Ave

Is this a vault or a manhole? Vault 9

Inspect for ready access to the vault/manhole.

- Test operation of doors/manhole-lids, their locking mechanisms, and company padlocks

Results: Good

If repairs were made or are needed, please describe below

- Lubricate door/manhole-lid locking mechanisms, manhole receiving ring (if applicable), and company padlocks as needed

Results:

- Notify vault owner of replacement or maintenance required

Results: Good

If notification is needed, please describe below

Additional Notes (if needed):

Inspect the vault/manhole.

- Ensure that signage indicating Warning and Danger are appropriately displayed and in good condition.

Results: *Good*

- Note the presence of any Hold, Caution, or Lockout tags present. If present, confirm with DCC that the tag should be there.

Results:

- Inspect for signs of tampering or unqualified person(s) access -- broken meter seals, broken or missing company padlocks, damaged equipment, etc.

Results:

If tampering or unauthorized access is suspected, please elaborate below

- Inspect exposed support racks and ensure that cables/conductors are fastened to the supports

Results: *Good*

- Inspect exposed splices for cracks, discoloration, evidence of overheating, signs of arcing, tracking, damage, etc.

Results: *Good*

- Ensure that insulating materials are in place.

Results: *Good*

- Ensure that guards, shields, or isolating barriers for live un-insulated parts are in place.

Results:

- Inspect drains and look for evidence of rising water levels

Results:

- Clean oil leak sensors (if present)

Results:

- Inspect and test operation of sump pumps (if present)

Results:

Inspect ventilation system

Type: *Good*

Check for air flow obstructions:

Results:

If forced air flow ventilation, check automatic and manual operation

Clean ventilation screens of dirt and debris

Inspect lighting

Results: *Good*

Has the customer stored combustibles anywhere in the vault, or any type of material that hinders ready access to electrical equipment?

Results:

Verify that legible, identifying tags are placed on conductors at every opening of the conduit system.

Good

Inspect overall structural integrity of the vault/manhole

Results: *Good*

If repairs are needed, please elaborate below

Verify that all metal in the vault/manhole is grounded.

Operator cards or instructions are present (if applicable).

Sweep and clean the vault/manhole.

Additional Notes (if needed):

Inspect the as-found conditions of the equipment.

- Company asset # VT5670615760
- 1Ø or 3Ø
- KVA Rating 505
- Rated primary voltage 7200
- Rated secondary voltage 120/208
- # of services
- Inspect Arresters
Results: Good
- LKE padlock and penta-head bolt present
Results: Good
- Record oil level gauge on transformer
- Look for signs of leaking oil
Results: Good
- Record current operating temp °C. 88°
- Record max operation temp °C
- Reset max temp indicator for next monitoring period
- Using a calibrated voltmeter, record secondary voltages.
- Using an IR instrument, record temperatures of exposed terminals and the ambient temperature in the vault/manhole.
 - Ambient 65°
 - Terminals 67°

- Visually inspect equipment case and exposed grounding for mechanical damage and/or harmful corrosion.

Results:

If repair is needed, please elaborate below

- Inspect exposed terminator bodies, terminators, bus, and bushings for cracks, discoloration, evidence of overheating, signs of tracking, etc.

Results: *Good*

If repair is needed, please elaborate below

- Ensure that any special operating tools are in the vault/manhole, with the equipment

Results:

- Restock fused transformers and fused switchgear with spare fuses if none are present.

- Verify that legible, identifying tags are placed on conductors at every termination.

Good

- Verify that spare conduits and circuit (conductor) positions in duct banks agree with company records

Additional Notes (if needed):