STATE OF CALIFORNIA Gavin Newsom, *Governor*
PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298

July 11, 2022 EA2022-970

Jeanette Olko
Electric Utility Division Manager
City of Moreno Valley Public Works
14331 Frederick St.
Moreno Valley, CA 92553

Subject: Audit of City of Moreno Valley Electric Utility

Ms. Olko:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Calvin Choi and Mily Vaidya of my staff conducted an electric distribution audit of City of Moreno Valley Electric Utility from May 9, 2022 to May 13, 2022. The audit included a review of City of Moreno Valley's records and field inspections of City of Moreno Valley's facilities.

During the audit, my staff identified violations of one or more General Orders (GOs). A copy of the audit findings itemizing the violations is enclosed. Please advise me no later than August 11, 2022, by electronic or hard copy, of all corrective measures taken by Moreno Valley to remedy and prevent such violations.

If you have any questions concerning this audit, you can contact Calvin Choi at (213) 266-4730 or Calvin.Choi@cpuc.ca.gov.

Sincerely,

Fadi Daye

Fadi Daye, P.E.
Program and Project Supervisor
Electric Safety and Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission

Enclosures: Audit Findings

Cc: Lee Palmer, Director, Safety and Enforcement Division, CPUC
Nika Kjensli, Program Manager, ESRB, SED, CPUC
Calvin Choi, Utilities Engineer, ESRB, SED, CPUC

## AUDIT FINDINGS

### I. Records Review

During the audit, my staff reviewed the following records:

- Underground detailed inspections records (there are no overhead facilities)
- Completed and pending corrective action work orders.
- Infrared testing of equipment.
- Moreno Valley's documented inspection program.

## II. Field Inspections

My staff inspected the following facilities during the field inspection:

| No. | Structure ID | Type of Structure |
|---|---|---|
| 1 | T1344 | Pad-mounted Transformer |
| 2 | S646 | Pad-mounted Switch |
| 3 | T647 | Pad-mounted Transformer |
| 4 | T1338 | Pad-mounted Transformer |
| 5 | C1459 | Pad-mounted Capacitor Bank |
| 6 | S1443 | Pad-mounted Switch |
| 7 | T1453 | Pad-mounted Transformer |
| 8 | S1445 | Pad-mounted Switch |
| 9 | T1447 | Pad-mounted Transformer |
| 10 | T1446 | Pad-mounted Transformer |
| 11 | T1451 | Pad-mounted Transformer |
| 12 | S1437 | Pad-mounted Switch |
| 13 | S1430 | Pad-mounted Switch |
| 14 | T1450 | Pad-mounted Transformer |
| 15 | C1458 | Pad-mounted Capacitor Bank |
| 16 | S1561 | Pad-mounted Switch |
| 17 | C1562 | Pad-mounted Capacitor Bank |
| 18 | T1560 | Pad-mounted Transformer |
| 19 | T620 | Pad-mounted Transformer |
| 20 | T619 | Pad-mounted Transformer |
| 21 | T625 | Pad-mounted Transformer |
| 22 | T626 | Pad-mounted Transformer |
| 23 | T623 | Pad-mounted Transformer |
| 24 | T641 | Pad-mounted Transformer |
| 25 | T691 | Pad-mounted Transformer |
| 26 | T637 | Pad-mounted Transformer |
| 27 | T639 | Pad-mounted Transformer |
| 28 | T640 | Pad-mounted Transformer |
| 29 | S628 | Pad-mounted Switch |
| 30 | S622 | Pad-mounted Switch |
| 31 | C629 | Pad-mounted Capacitor Bank |
| 32 | T1031 | Pad-mounted Transformer |
| 33 | S1030 | Pad-mounted Switch |
| 34 | T1029 | Pad-mounted Transformer |
| 35 | T1027 | Pad-mounted Transformer |
| 36 | C1038 | Pad-mounted Capacitor Bank |
| 37 | S1024 | Pad-mounted Switch |
| 38 | T1025 | Pad-mounted Transformer |
| 39 | T1026 | Pad-mounted Transformer |
| 40 | V1412 | Vault |

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|---|---|---|
| 41 | V1424 | Vault |
| 42 | T889 | Pad-mounted Transformer |
| 43 | S1778 | Pad-mounted Switch |
| 44 | T1779 | Pad-mounted Transformer |
| 45 | T670 | Pad-mounted Transformer |
| 46 | T669 | Pad-mounted Transformer |
| 47 | T668 | Pad-mounted Transformer |
| 48 | C106 | Pad-mounted Capacitor Bank |
| 49 | S102 | Pad-mounted Switch |
| 50 | S103 | Pad-mounted Switch |
| 51 | T104 | Pad-mounted Transformer |
| 52 | T1010 | Pad-mounted Transformer |
| 53 | T1379 | Pad-mounted Transformer |
| 54 | S1701 | Pad-mounted Switch |
| 55 | T1702 | Pad-mounted Transformer |
| 56 | C710 | Pad-mounted Capacitor Bank |
| 57 | S695 | Pad-mounted Switch |
| 58 | T543 | Pad-mounted Transformer |
| 59 | T541 | Pad-mounted Transformer |
| 60 | T539 | Pad-mounted Transformer |
| 61 | T538 | Pad-mounted Transformer |
| 62 | T540 | Pad-mounted Transformer |
| 63 | T537 | Pad-mounted Transformer |
| 64 | T859 | Pad-mounted Transformer |
| 65 | T866 | Pad-mounted Transformer |
| 66 | T209 | Pad-mounted Transformer |
| 67 | T199 | Pad-mounted Transformer |
| 68 | T1271 | Pad-mounted Transformer |
| 69 | T1272 | Pad-mounted Transformer |
| 70 | T1267 | Pad-mounted Transformer |
| 71 | T912 | Pad-mounted Transformer |
| 72 | T913 | Pad-mounted Transformer |
| 73 | T918 | Pad-mounted Transformer |
| 74 | T917 | Pad-mounted Transformer |
| 75 | T914 | Pad-mounted Transformer |
| 76 | T915 | Pad-mounted Transformer |
| 77 | T916 | Pad-mounted Transformer |
| 78 | T238 | Pad-mounted Transformer |
| 79 | T239 | Pad-mounted Transformer |
| 80 | T261 | Pad-mounted Transformer |
| 81 | T263 | Pad-mounted Transformer |
| 82 | T264 | Pad-mounted Transformer |
| 83 | T304 | Pad-mounted Transformer |
| 84 | T303 | Pad-mounted Transformer |
| 85 | T302 | Pad-mounted Transformer |

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|---|---|---|
| 86 | FC43 | Pad-mounted Fuse Cabinet |
| 87 | T45 | Pad-mounted Transformer |
| 88 | T46 | Pad-mounted Transformer |
| 89 | T8 | Pad-mounted Transformer |
| 90 | T7 | Pad-mounted Transformer |
| 91 | T25 | Pad-mounted Transformer |
| 92 | T147 | Pad-mounted Transformer |
| 93 | T148 | Pad-mounted Transformer |
| 94 | T145 | Pad-mounted Transformer |
| 95 | T157 | Pad-mounted Transformer |
| 96 | T201 | Pad-mounted Transformer |
| 97 | T202 | Pad-mounted Transformer |
| 98 | T203 | Pad-mounted Transformer |
| 99 | T204 | Pad-mounted Transformer |
| 100 | T205 | Pad-mounted Transformer |
| 101 | S735 | Pad-mounted Switch |
| 102 | T1833 | Pad-mounted Transformer |
| 103 | T1640 | Pad-mounted Transformer |
| 104 | T1526 | Pad-mounted Transformer |
| 105 | T253 | Pad-mounted Transformer |
| 106 | T255 | Pad-mounted Transformer |
| 107 | T256 | Pad-mounted Transformer |
| 108 | T257 | Pad-mounted Transformer |
| 109 | T243 | Pad-mounted Transformer |
| 110 | T241 | Pad-mounted Transformer |
| 111 | T248 | Pad-mounted Transformer |
| 112 | T249 | Pad-mounted Transformer |
| 113 | T244 | Pad-mounted Transformer |
| 114 | T245 | Pad-mounted Transformer |
| 115 | T246 | Pad-mounted Transformer |
| 116 | S59 | Pad-mounted Switch |
| 117 | S58 | Pad-mounted Switch |
| 118 | S57 | Pad-mounted Switch |
| 119 | T176 | Pad-mounted Transformer |
| 120 | T329 | Pad-mounted Transformer |
| 121 | T330 | Pad-mounted Transformer |
| 122 | T332 | Pad-mounted Transformer |
| 123 | T333 | Pad-mounted Transformer |
| 124 | T335 | Pad-mounted Transformer |
| 125 | T334 | Pad-mounted Transformer |
| 126 | T230 | Pad-mounted Transformer |
| 127 | T231 | Pad-mounted Transformer |
| 128 | T137 | Pad-mounted Transformer |
| 129 | T139 | Pad-mounted Transformer |
| 130 | T135 | Pad-mounted Transformer |

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|---|---|---|
| 131 | T578 | Pad-mounted Transformer |
| 132 | T577 | Pad-mounted Transformer |
| 133 | T576 | Pad-mounted Transformer |
| 134 | T406 | Pad-mounted Transformer |
| 135 | T407 | Pad-mounted Transformer |
| 136 | T408 | Pad-mounted Transformer |
| 137 | T554 | Pad-mounted Transformer |
| 138 | T570 | Pad-mounted Transformer |
| 139 | T569 | Pad-mounted Transformer |
| 140 | T567 | Pad-mounted Transformer |

## III. Field Inspection - Violations List

My staff observed the following violations during the field inspections portion of the audit:

**GO 128, Rule 17.1, Design Construction and Maintenance,** states in part:

*Electrical supply and communication systems shall be designed, constructed, and maintained for their intended use, regard being given to the conditions under which they are to be operated, to enable the furnishing of safe, proper, and adequate service.*

- Pad-mounted transformer T641 had its handle broken off.
- Pad-mounted switch S628 had corrosion on the inside of the cabinet.
- Pad-mounted switch S622 had corrosion on the inside of the cabinet.
- Pad-mounted transformer T1027 had corrosion on the inside of the cabinet.
- Pad-mounted transformer T1026 had a damaged high voltage sign.
- Pad-mounted transformer T1702 had a hole in the concrete pad, allowing access to the cables from outside of the enclosure.
- Pad-mounted transformer T541 had a low oil level as viewed from the sight glass.
- Pad-mounted transformer T539 had a low oil level as viewed from the sight glass.
- Pad-mounted transformer T1267 had a missing high voltage sign.
- Pad-mounted transformer T916 had a faded high voltage sign.
- Pad-mounted transformer T1010 had corroded mounting bolts.
- Pad-mounted transformer T203 was buried toward the back of enclosure and had corrosion at the bottom of the rear side.
- Pad-mounted transformer T176 had a damaged high voltage sign.
- Pad-mounted transformer T407 was buried toward the rear of the enclosure.
- Pad-mounted switch S59 had a door that could not be opened.

**GO 128, Rule 34.3(C), Equipment, Transformers,** states in part:

*Transformers operating at more than 600 volts, other than current and potential transformers and transformers which constitute a component part of other apparatus and which conform to the requirements of such apparatus, shall be readily accessible for operation, inspection, maintenance, and replacement.*

- One of the doors of pad-mounted transformer T1029 was damaged and could not be opened.