

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



December 29, 2022

SA2022-960

Scott Hirashima  
Manager of Regulatory and Compliance  
Los Angeles Department of Water and Power (LADWP)  
111 North Hope Street  
Los Angeles, CA 90012

**SUBJECT:** Substation Audit of LADWP South LA District

Mr. Hirashima:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission (CPUC), Kyle King of my staff conducted a substation audit of LADWP South LA District from October 17 through October 21, 2022. The audit included a review of LADWP's records and field inspections of LADWP'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 January 30, 2023, by electronic or hard copy, of all corrective measures taken by LADWP to remedy and prevent the recurrence of such violations in the future.

If you have any questions concerning this audit, please contact Kyle King at (213) 222-3260 or [Kyle.King@cpuc.ca.gov](mailto:Kyle.King@cpuc.ca.gov).

Sincerely,

A handwritten signature in blue ink that reads "Fadi Daye".

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

Enclosures: CPUC Audit Findings

Cc: Lee Palmer, Director, Safety and Enforcement Division, CPUC  
Nika Kjensli, Program Manager, Electric Safety and Reliability Branch, CPUC  
Kyle King, Utilities Engineer, ESRB, CPUC

## **AUDIT FINDINGS**

### **I. Records Review**

During the audit, my staff reviewed the following records and documents:

- LADWP South LA District Map
- Listing of addresses of all substations in LADWP South LA District
- LADWP Maintenance Manual on Substation Inspections
- LADWP Substation Testing Policies and Procedures
- LADWP South LA District Substation Inspector – GO174 Training Records Documentation
- LADWP South LA District Substation Inspection Records from July 2017 to June 2022
- Inspection Checklists and One-Line Diagrams for three selected substations
- Pending and Completed Workorders for the year 2021.

## II. Field Inspections

My staff inspected the following substations during the field portion of the audit:

<b>Substation</b>	<b>Location</b>
<b>DS051</b>	Los Angeles
<b>DS119</b>	Los Angeles
<b>DS121</b>	Los Angeles
<b>DS003</b>	Los Angeles
<b>DS089</b>	Los Angeles
<b>DS105</b>	Los Angeles
<b>DS106</b>	Los Angeles
<b>DS123</b>	Los Angeles
<b>DS143</b>	Los Angeles
<b>DS014</b>	Los Angeles
<b>DS027</b>	Los Angeles
<b>DS041</b>	Los Angeles
<b>DS004</b>	Los Angeles
<b>DS018</b>	Los Angeles
<b>DS045</b>	Los Angeles
<b>DS032</b>	Los Angeles

### III. Field Inspections – Violations List

My staff observed the following violations during the field inspection:

**GO 174, Rule 12, General**, states in part:

*Substations shall be designed, constructed, and maintained for their intended use, regard being given to the conditions under which they are to be operated, to promote the safety of workers and the public and enable adequacy of service.*

*Design, construction, and maintenance should be performed in accordance with accepted good practices for the given local conditions known at the time by those responsible.*

Facilities at the following substations had dry stained oil/fluid that was not properly maintained:

**Substation DS119**

Transformer Banks A1, B1, C1, A2, B2, & C2

**Substation DS121**

Transformer Banks A1, B1, & C1

**Substation DS003**

Transformer Banks A1, B1, & C1

**Substation DS106**

Transformer Banks A1, B1, & C1

**Substation DS143**

Transformer Bank A2

**Substation DS018**

Transformer Banks ABC, Switch No. 4