Pacific Palisades

Three Troubled DWP Circuits

January 28, 2016

We all want

safe,

sustainable,

affordable,

quality,

& reliable

power.

Situation in Pacific Palisades

- Load is growing
- Delayed construction of a new distributing station
- Three existing troubled circuits are:
  - Outage prone
  - Overloaded

Troubled Circuits 29-03 and 29-06

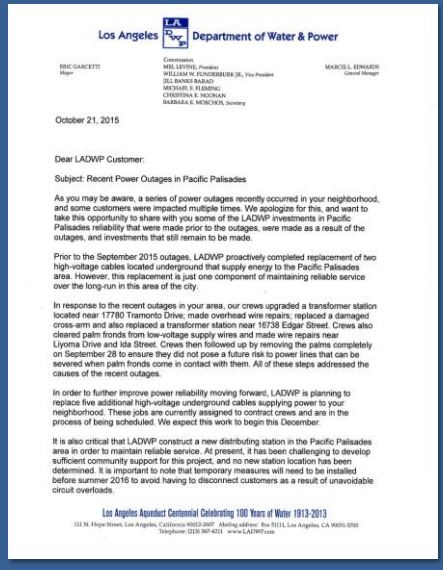
Troubled Circuit 29-05

Outage Statistics

1/1/2013 to 1/8/2016			
Feeder	**Outage Date**	**Cause**	**Outage Duration**
029-03	11/22/2013	Palm Frond/Lines down	6.5 hrs
	11/25/2013	Undetermined	1 min
	9/15/2014	Undetermined/Lines down/Extreme Heat	12 hrs 25 min
	11/12/2014	Tree/lines down	3 hrs 27 min
	12/27/2014	Splices in MH 17026 W. Sunset Bl failed	11 hrs
	3/25/2015	Ground Search	10 sec
	9/9/2015	Lines Down	3 hrs 23 min
	9/28/2015	UG 25 kVA Xfmr Overloaded & OCO failed	13 hrs 38 min
		029-03 carrying portion of 029-07 at the time	
029-05	10/29/2013	Ground Search - Cable failed in 029-05	45 sec
	1/17/2014	Ground Search	40 min
	1/7/2016	Palm Frond - Rain	2 hrs 14 min
029-06	10/29/2013	Failed cable between Xfmr -138 & -139	13 hrs 20 min
S.1	12/3/2014	Trees/Lines down	4 hrs 33 min
S.1	9/12/2015	Failed conductor - Extreme Heat	1 hrs 15 min

Overload Statistics

Circuit	2009	2010	2011	2012	2013	2014	2015
029-03	104%	123%	85%	101%	90%	101%	118%
029-05	109%	121%	93%	94%	86%	101%	123%
029-06	93%	138%	93%	94%	93%	105%	114%



Los Angeles Department of Water & Power

ERIC GARCETTI
Mayor

Commission
MEL LEVINE, President
WILLIAM W. FUNDERBURK JR., Vice President
JILL BANKS BARAD
MICHAEL F. FLEMING
CHRISTINA E. NOONAN
BARBARA E. MOSCHOS, Secretary

MARCIE L. EDWARDS
General Manager

October 21, 2015

Dear LADWP Customer:

Subject: Recent Power Outages in Pacific Palisades

As you may be aware, a series of power outages recently occurred in your neighborhood, and some customers were impacted multiple times. We apologize for this, and want to take this opportunity to share with you some of the LADWP investments in Pacific Palisades reliability that were made prior to the outages, were made as a result of the outages, and investments that still remain to be made.

Prior to the September 2015 outages, LADWP proactively completed replacement of two high-voltage cables located underground that supply energy to the Pacific Palisades area. However, this replacement is just one component of maintaining reliable service over the long-run in this area of the city.

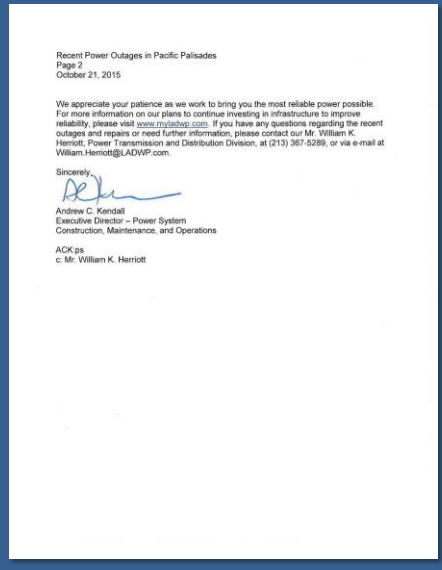
In response to the recent outages in your area, our crews upgraded a transformer station located near 17780 Tramonto Drive; made overhead wire repairs; replaced a damaged cross-arm and also replaced a transformer station near 16738 Edgar Street. Crews also cleared palm fronds from low-voltage supply wires and made wire repairs near Liyoma Drive and Ida Street. Crews then followed up by removing the palms completely on September 28 to ensure they did not pose a future risk to power lines that can be severed when palm fronds come in contact with them. All of these steps addressed the causes of the recent outages.

In order to further improve power reliability moving forward, LADWP is planning to replace five additional high-voltage underground cables supplying power to your neighborhood. These jobs are currently assigned to contract crews and are in the process of being scheduled. We expect this work to begin this December.

It is also critical that LADWP construct a new distributing station in the Pacific Palisades area in order to maintain reliable service. At present, it has been challenging to develop sufficient community support for this project, and no new station location has been determined. It is important to note that temporary measures will need to be installed before summer 2016 to avoid having to disconnect customers as a result of unavoidable circuit overloads.

Los Angeles Aqueduct Centennial Celebrating 100 Years of Water 1913-2013

111 N. Hope Street, Los Angeles, California 90012-2607 Mailing address: Box 51111, Los Angeles, CA 90051-5700
Telephone: (213) 367-4211 www.LADWP.com



Recent Power Outages in Pacific Palisades
Page 2
October 21, 2015

We appreciate your patience as we work to bring you the most reliable power possible. For more information on our plans to continue investing in infrastructure to improve reliability, please visit www.myladwp.com. If you have any questions regarding the recent outages and repairs or need further information, please contact our Mr. William K. Herriott, Power Transmission and Distribution Division, at (213) 367-5289, or via e-mail at William.Herriott@LADWP.com.

Sincerely,

Andrew C. Kendall
Executive Director – Power System
Construction, Maintenance, and Operations

ACK:ps
c: Mr. William K. Herriott

Solutions

- Continue various miscellaneous repairs and replacements per October 21, 2015 letter
- Short term solution is to split the three circuits with two pole top distribution stations (PTDS) to form five circuits
- Long term solution is to build a new distributing station

Troubled Circuits 29-03 and 29-06

Split Two Circuits 29-03 and 29-06 into Three Circuits

Troubled Circuit 29-05

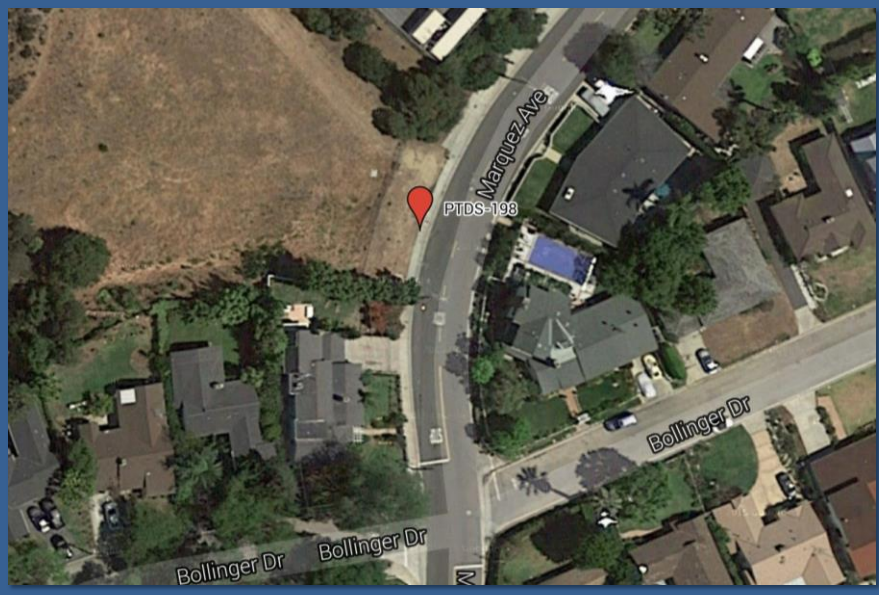
Split One Circuit 29-05 into Two Circuits

Benefits & Limitations

- Relieve the overloaded circuits
- Improve power quality and reliability
- Limitations compared to a new distribution station:

  Fused, no backup supply, no backup transformer, no regulation, OH exposure, minimal remote monitoring and control

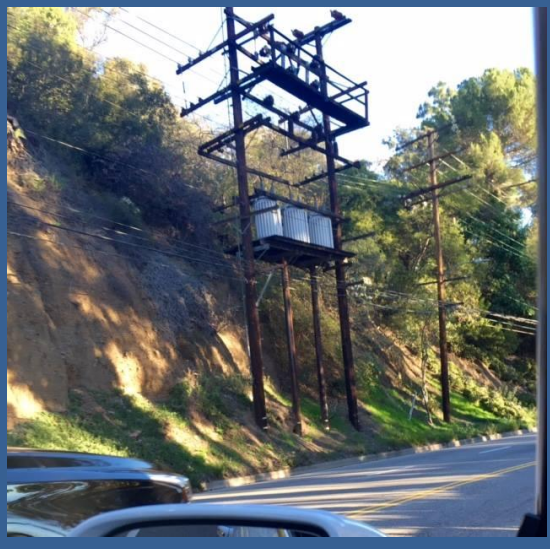
Temp PTDS-198 Location



Temp PTDS-195 Location

Sample of a Pole Top Distribution Station

Nearby Pole Top Industrial Station



Design & Construction Attributes

- LADWP Overhead Power Distribution Construction Standards, Pole Top Distribution Station, C633-16, Issued 2/2/12
- Design complies with: ADA, GO-95, GO-165, Cal-OSHA, Title 8, LADWP Rules Governing Water & Electric Service, and LADWP Safety Rule Book
- Right to install per California Streets & Highways Code, Sections 5100 – 5105
- Complies with Power Distribution Division Construction Standards, Transformer Pad Location Requirements for Ambient Sounds Levels In Residential Zones, C721-018; and City of LA Noise ordinances
- EMF — Prudent Avoidance Policy
- 34 existing citywide PTDSs

Schedule

- Construction will begin in March
- 4 weeks construction for each PTDS
- In-service before summer
- Will remain until a new permanent DS is built
  - CEQA NOP soon to come for a permanent DS
- More PTDSs will be needed; perhaps within a year

We all want

safe,
sustainable,
affordable,
quality,
& reliable

power.

Q&A