

Additional Documents Distributed for the Regular City Council Meeting October 2, 2019

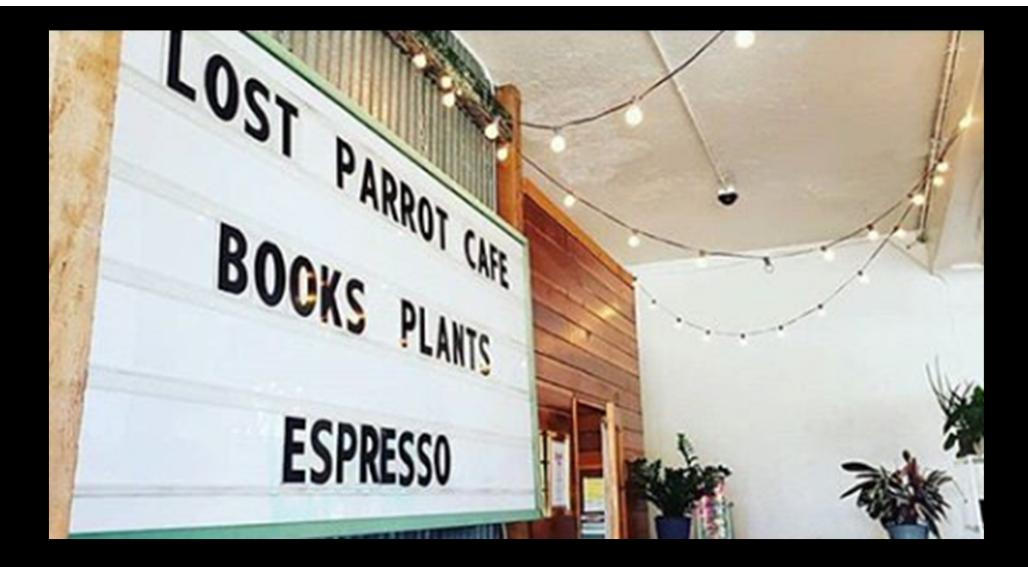
Item No.	Agenda Item Description	Distributor	Document
4	Merchant Minute	Justin Prietto	Photos
5	City Promotional Video	John Pope, Public Information Officer	PowerPoint and Video
6	Councilmember Communications	Councilmember Cacciotti	Photos
6	Councilmember Communications	Mayor Pro Tem Joe	Photos
6	Councilmember Communications	Mayor Khubesrian	Flyer;Photo
12	Authorize the First Amendment to the Professional Services Agreement with Wildan Engineering Incorporated for Code Enforcement Services	Margaret Lin, Manager of Long Range Planning and Economic Development	Memo
14	Appeal of the Planning Commission Decision (817 Orange Grove Place)	Margaret Lin, Manager of Long Range Planning and Economic Development	Memo
14	Appeal of the Planning Commission Decision (817 Orange Grove Place)	Kanika Kith, Manager of Long Range Planning and Economic Development	PowerPoint
14	Appeal of the Planning Commission Decision (817 Orange Grove Place)	Elizabeth Hollingsworth, Resident	PowerPoint
16	HDL Sales Tax Presentation	Tom Bachman, HDL	PowerPoint
17	Southern California Edison Liability Report	Jeannette Soriano, Government Relations Manager Southern California Edison	PowerPoint











SOUTH PASADENA CITY VIDEO

John Pope, Public Information Officer October 2, 2019

Coals Showcase City at overseas trips, meetings with dignitaries, outside agencies, etc. Capture the energy, vibrancy and uniqueness of South Pasadena Build pride in the City Promote economic development Distribute via City web site, YouTube, social media, enews



Thanks and Recognition

Retail, Sales and Non-profit

- Dual Crossroads
- Jasleen Boutique
- Meg Middleman Real Estate
- Old Focals Optical
- Peltier Home
- South Pasadena Museum
- Square Deal Barber
- Videotheque

Eateries and Food

- Aro Latin
- Bistro De La Gare
- Fair Oaks Pharmacy
- Farmers Market
- Gus's BBQ
- Jones Coffee
- Mamma's Pizza
- Nicole's Market & Café

Thanks and Recognitions

• Media 360

· Sandra Holden, Chaz Curry, Danyel Johnson

City Staff

- Christina Munoz
- · Marisol Romero, Kristine Courdy, Karen Aceves, Tamara Binns
- Jose Villegas, Logan How, Francois Brard, Joan Aguado

Extras

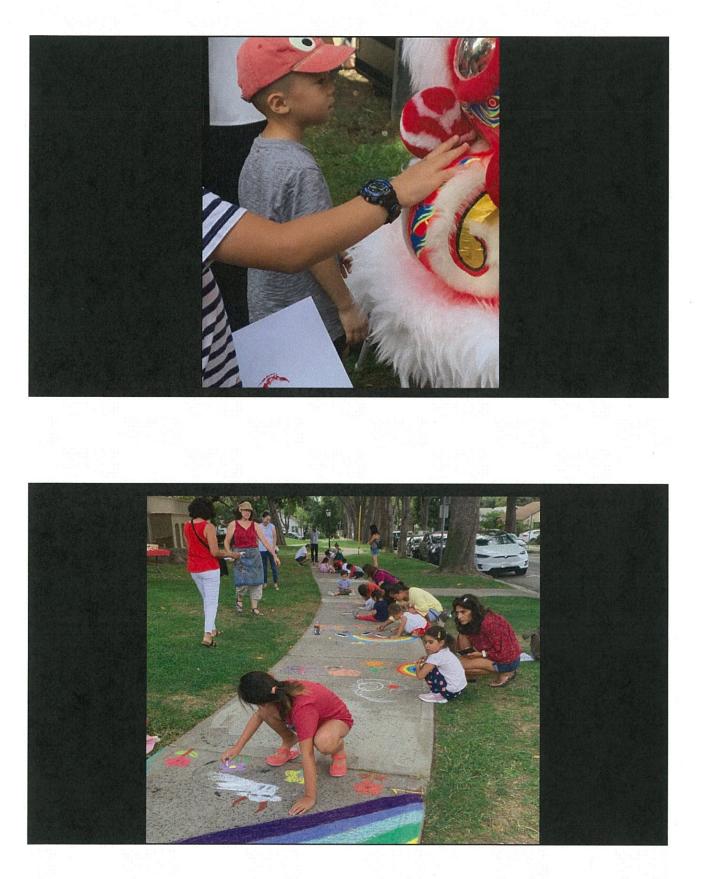
- Max Nuñez, Aaron Courdy
- And introducing...Kylie Courdy





Additional Material AGENDA ITEM # 6 - Cacciotti 10 2/19City Council Mtg. 1





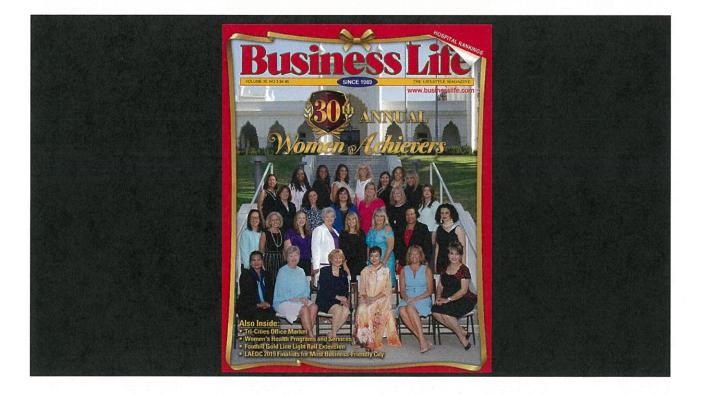
Additional Material AGENDA ITEM # 6-100 0 6/19City Council Mtg.









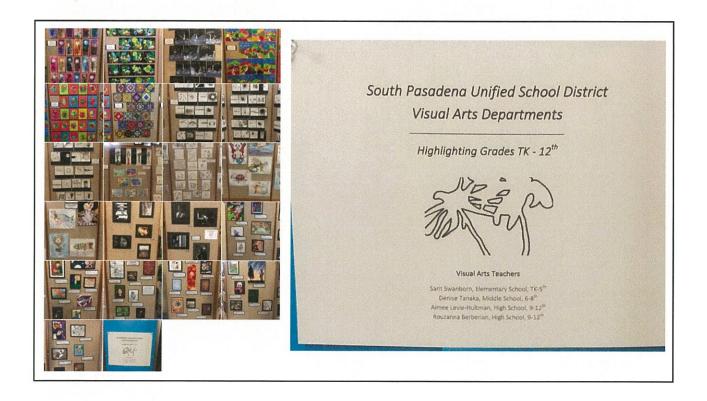




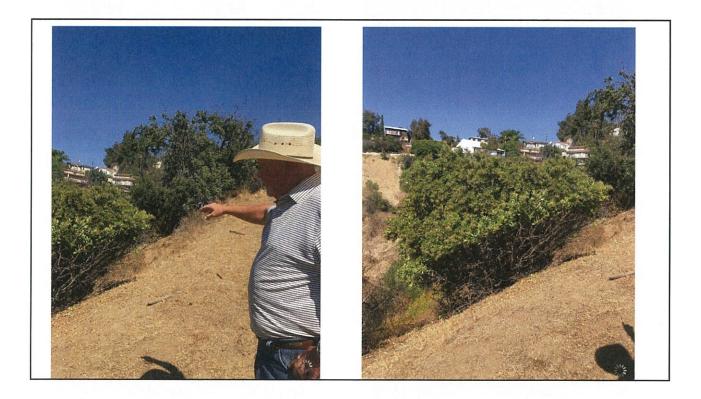


Additional Material AGENDA ITEM # ____Khubesrian 10 12/19 City Council Mtg.

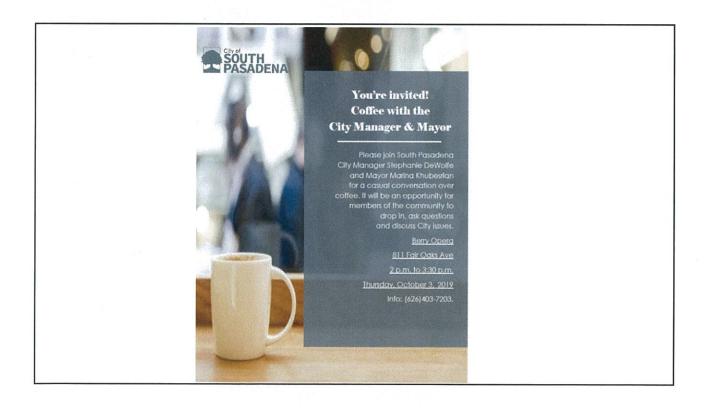
















City of South Pasadena Planning and Building Department

Memo

Date:	October 2, 2018	
То:	The Honorable City Council Stephanie DeWolfe, City Manager	
Via:	Stephanie DeWolfe, City Manager X.	
From:	Margaret Lin, Manager of Long Range Planning and Economic Development	
Re:	October 2, 2019 City Council Meeting Item No. 12 Additional Document – Authorize the First Amendment to the Professional Services Agreement with Wildan Engineering Incorporated for Code Enforcement Services for a Total Not-To-Exceed Amount of \$83,780	

Attached is an additional document which provides a corrected Total Not-To-Exceed amount for the contract amendment and clarification regarding the Fiscal Impact to extend the existing contract by twelve months.

Contract Amendment:

The contract amendment will increase the contract amount by \$56,620 for a Total Not-To-Exceed Amount of \$81,120.

Fiscal Impact:

The original contract from December 2018 to April 2019 had a Total Not-To-Exceed amount of \$24,500 (\$65/hour for four months). The contract extension would be billed retroactively at the same rate from May to September 2019 (\$24,700 for five months) and at a reduced rate of \$60/hour from October 2019 to April 2020 (\$31,920 for seven months) during recruitment. This would result in an increase to the contract amount by \$56,620, for a Total Not-To-Exceed contract amount of \$81,120. The current Planning and Building Department Professional Services Account (101-7010-7011-817) has a sufficient balance to fund the contract amount.

Additional Material AGENDA ITEM # 10 12/19 City Council Mtg.

FIRST AMENDMENT TO AGREEMENT FOR SERVICES

THIS AMENDMENT ("Amendment") is made and entered into on the 2nd day of October, 2019 by and between the CITY OF SOUTH PASADENA ("City") and Wildan Engineering, Incorporated.

RECITALS

WHEREAS, on December 3, 2018, the City Manager approved a Professional Services Agreement with Wildan Engineering Incorporated for code enforcement services and related activities; and

WHEREAS, the Term of the Agreement was through April 30, 2019, with the option to extend upon written agreement of the parties; and

WHEREAS, the Payment for Services in the Agreement shall not exceed the original authorized amount of \$24,500 unless the City has given specific advance approval in writing; and

WHEREAS, the City and Consultant desire to amend the scope of services to extend the agreement for twelve (12) additional months as authorized in the Agreement through April 30, 2020.

NOW, THEREFORE, THE CITY AND THE CONSULTANT AGREE AS FOLLOWS:

1. PAYMENT FOR SERVICES. That the twelve month extended agreement shall be billed at a rate of \$65 per hour for five months and a reduced rate of \$60 per hour for seven months and shall not exceed a total of \$56,620. The total project cost for the revised scope of services shall not exceed amount of \$81,120.

2. CONSULTANT SERVICES. That the scope of services of the Agreement would be amended to extend the agreement for twelve (12) additional months.

3. TERM. The term of this Agreement shall be extended from April 30, 2019 to April 30, 2020, or when the work is satisfactory completed, whichever occurs first, or unless extended by a supplemental amendment.

4. PROVISIONS OF AGREEMENT. All other terms, conditions, and provisions of the Agreement to the extent not modified by this Amendment, shall remain in full force and effect.

.

TO EFFECTUATE THIS AMENDMENT, the parties have caused their duly authorized representatives to execute this Amendment on the dates set forth below.

"CITY"	"Consultant"
City of South Pasadena	Wildan Engineering, Incorporated
By: Signature	By:
Printed: Stephanie DeWolfe	Printed:
Title: City Manager	Title:
Date:	Date:
Attest:	
By:	
By: Evelyn G. Zneimer, City Clerk	
Date:	
Approved as to form:	

By:_____ Teresa L. Highsmith, City Attorney

Date: _____



City of South Pasadena Planning and Building Department

Memo

Date:	October 1, 2018	
То:	The Honorable City Council	
Via:	Stephanie DeWolfe, City Manager	
From:	Margaret Lin, Manager of Long Range Planning and Economic Development M.C.	
Re:	October 2, 2019 City Council Meeting Item No. 14 Additional Document – Appeal of the Planning Commission Decision (Project No. 2221-Appeal) to Approve a New Triplex Development at 817 Orange Grove Place (APN: 5315- 018-064)	

Attached is an additional document which provides a corrected Project Description and clarification regarding the total number of bedrooms. The Staff Report inadvertently stated that the proposed triplex development would include a total of three units with four bedrooms. The correct Project Description should include a total of three units with five bedrooms. The additional document also provide clarification regarding the Public Works Conditions of Approval included in the Staff Recommendation.

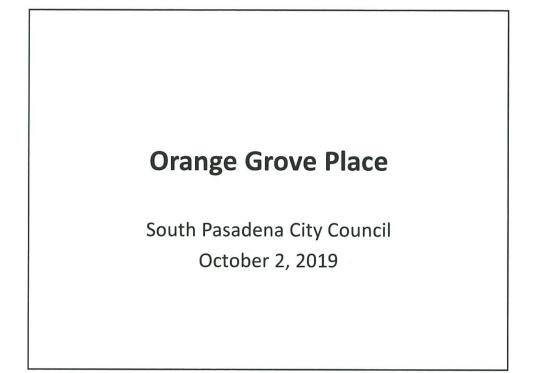
Project Description:

On April 9, 2019, the Planning Commission approved the proposed project with two one-bedroom units and one two-bedroom unit. In accordance with the Planning Commission approval, the Planning Commission Chair conducted a Chair Review and approved revised plans with two one-bedroom units and one three-bedroom unit. The increased number of bedrooms in the middle unit is in compliance with the zoning code and does not change the parking requirements. The Project Description should be updated to read:

"The tri-plex project as approved by the Planning Commission consisted of two one-bedroom units at the front and rear, and one three-bedroom unit in the middle."

Staff Recommendation:

It is recommended that the City Council deny the appeal and uphold the Planning Commission approval of a new tri-plex development located at 817 Orange Grove Place, subject to the Conditions of Approvals with additional conditions from Public Works. The property-owner does not intend to sell the proposed units and therefore a Tentative Tract Map is not required. The Public Works Conditions of Approval should not include Conditions 2 and 4 relating to the Tentative Tract Map.























DRB Meeting Dates 817 Orange Grove Place

Dec. 16, 2014 May 5, 2015 July 5, 2015

January 5, 2017

January 7, 2016 October 6, 2016 November 3, 2016 October 4, 2018

Appeal Point #1

We object to the conditional approval with Chair Review.

We believe that the changes requested by the Commission should be evaluated and discussed in public view at a public hearing.

Appeal Point #4

We believe that the auxiliary rooms labeled as office or rec room will be used as bedrooms, and should be counted as bedrooms for the purpose of determining the project's compliance, particularly with parking requirements.

RM Standards

Minimum Covered Parking:

1 space per bedroom

2 spaces per 2 bedroom or greater

Minimum Uncovered Parking:

1 guest space for every 2 units

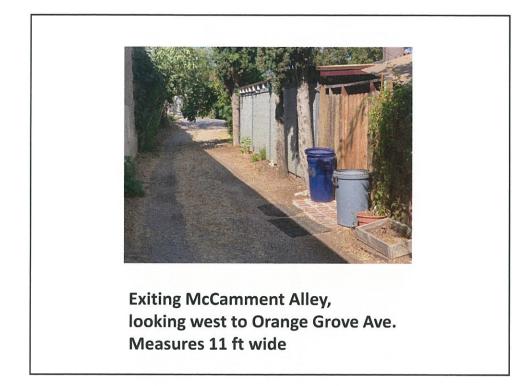
Appeal Point #3

Parking will be negatively impacted by this development because of the large increase in the number of its residents.

Appeal Point #2

The development significantly and negatively impacts public safety and traffic on

Orange Grove Place and Orange Grove Avenue as well as on McCamment Alley.





THANK YOU, City Council Members

817 Orange Grove Place Appeal

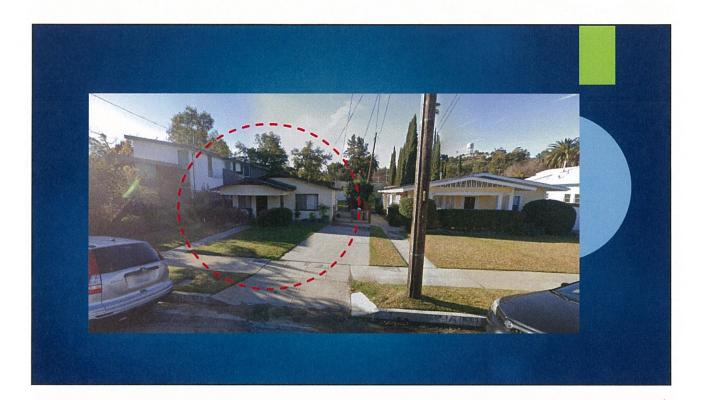
2221-APPEAL MULTI-FAMILY TRI-PLEX – PROJECT NO. 1750-NID-DRX OCTOBER 2, 2019

Project Description

- General Plan: Medium Density Residential
- Zoning: Residential Medium Density
- Lot Size: 10,102 square feet (sq. ft.)







Project Timeline

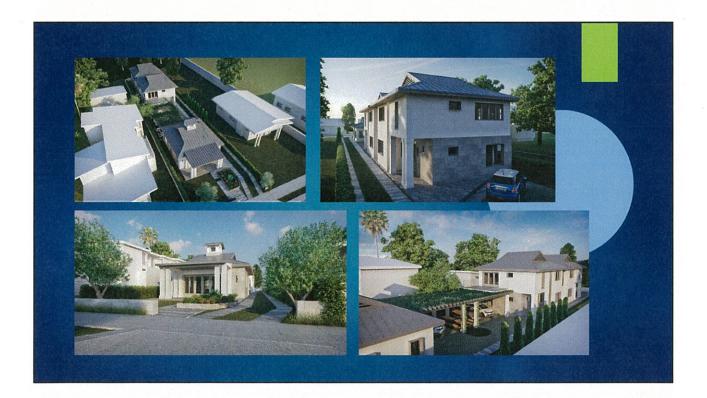
- Dec. 2014: First DRB hearing Continued
 - Multiple revisions and reviews
- Oct. 2018: DRB Denial Project did not meet Finding #3 due to its massing, architectural articulation, and ignored recommendations
- Oct. 2018: Appeal by Applicant to PC
- Apr. 2019: PC approval revised project and referred the project to Chair Review to eliminate auxiliary rooms that could be used as extra bedrooms

Project Description

- Planning Commission Approval
 - ▶ Tri-Plex: 4,326 square feet
 - ▶ Unit A: 860 sq. ft. (1 bedroom)
 - Unit B: 1,733 sq. ft. (2 bedrooms)
 - Unit C: 1,733 sq. ft. (1 bedroom)
 - Parking: 4 covered and 2 uncovered
 - Height: 27 ft. max
 - ▶ Lot Coverage: 36 percent
 - Floor Area Ratio: 42.8 percent

- Planning Commission Chair Approval
 - ▶ Unit B: 1,733 sq. ft. (3 bedrooms)





Appeal

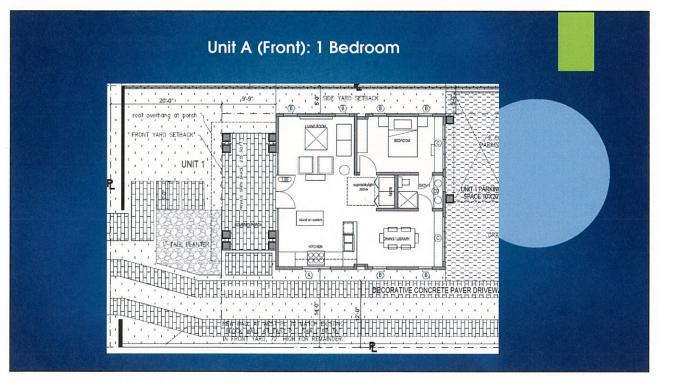
Overturn the Planning Commission approval for construction of a new tri-plex development at 817 Orange Grove Place

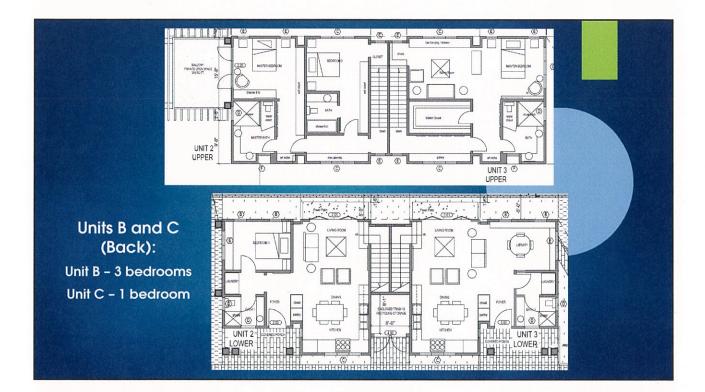
- 1. Object to Chair Review. Requested changes to be evaluated and discussed at a public meeting
- 2. Impacts to traffic and public safety on McCamment Alley, Orange Grove Place, and Orange Grove Avenue.
- 3. Impact to parking
- Extra rooms (office or rec room) should be counted as bedrooms for the purpose of determining the project's compliance with parking

Recommendation

- Uphold Planning Commission Approval Subject to the Conditions of Approval with Additional Conditions from Public Works
 - Staff and the Chair reviewed the revised plans and determined they were in compliance with the Conditions of Approval
 - 2. Proposed Project complies with the General Plan
 - 3. Proposed Project is parked in accordance with the Zoning Code requirements
 - 4. Auxiliary rooms were mitigated in the revised floor plans
- Proposed Project complies with all code requirements







South Pasadena Sales Tax

Bradley Burns 1.0% Sales Tax and Measure A .75% Transaction Tax

South Pasadena Sales Tax Rate – 9.5%

South Pasadena General Fund (Bradley-Burns) 1.	.0000%
	.0000/0
County Public Safety (Prop 172) 0	.5000%
County Realignment (Mental Health/Public Safety) 1	.5625%
Countywide Transportation Fund <u>O</u>	.2500%
Base Statewide Rate7	.2500%
Prop A, Prop C, Measure R, Measure M Transit (4 x 0.5%) 2	.0000%
Los Angeles County Measure H Homeless Programs <u>O</u>	.2500%
Current Total South Pasadena Rate 9.	.5000%

Sales Tax Historical Results

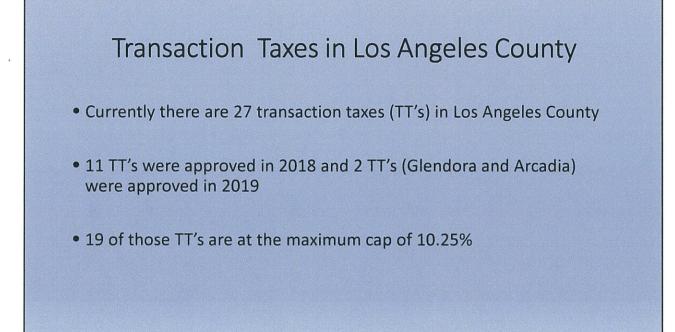
2016-17	\$2,173,347	Actual
2017-18	\$2,166,656	Actual
2018-19	\$2,252,037	Actual

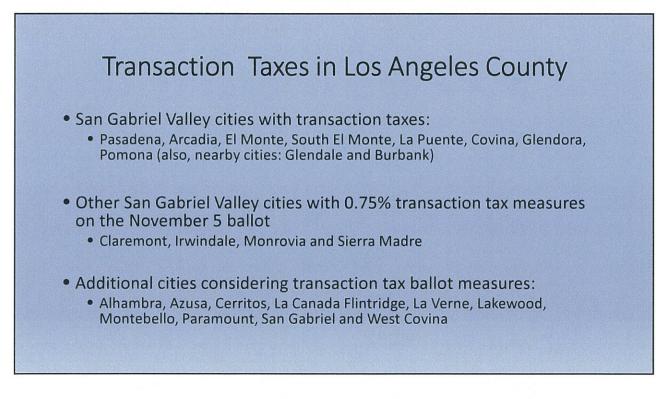
2019-20 \$2,130,802 Budget

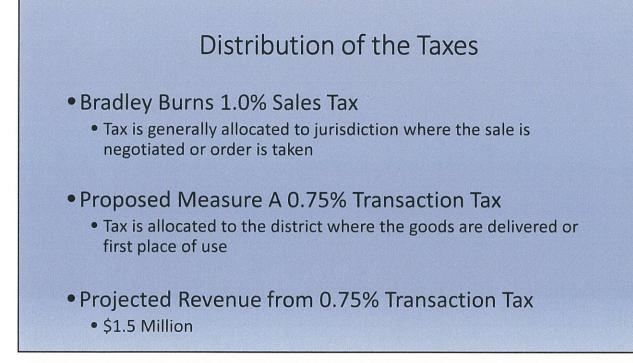
(reflects the loss of OSH, Koi Loungewear, and Big Lots)

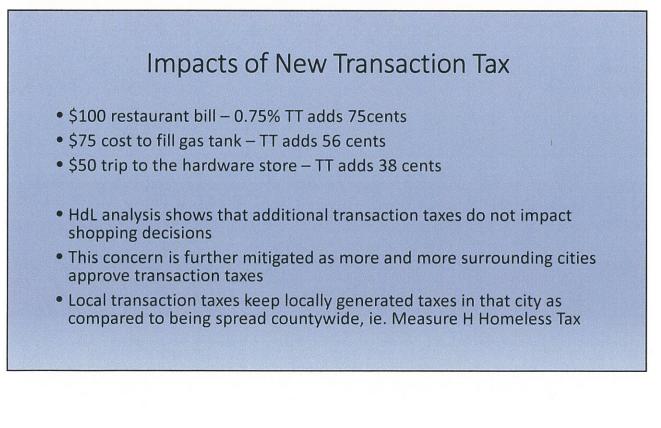
Sales Tax Makeup by Major Industry Group FY 19/20 Budget Projection

	Amount <u>% of Tota</u>
Restaurants and Hotels	\$ 570,322 26%
Food and Drugs	\$ 393,360 18%
General Consumer Goods	\$ 287,935 13%
State and County Pools	\$ 285,795 13%
Fuel and Service Stations	\$ 281,497 13%
Business and Industry	\$ 198,010 9%
Building and Construction	\$ 112,941 5%
Autos and Transportation	\$ 29,007 1%
Gross Sales Tax	\$ 2,158,867 100%
CDTFA Administration Cost	<u>\$ (28,065)</u>
Total Sales Tax Revenues	\$ 2,130,802









South Pasadena Sales Tax

Bradley Burns 1.0% Sales Tax and Measure A .75% Transaction Tax

South Pasadena Sales Tax Rate - 9.5%

State General Fund	3.9375%
South Pasadena General Fund (Bradley-Burns)	1.0000%
County Public Safety (Prop 172)	0.5000%
County Realignment (Mental Health/Public Safety)	1.5625%
Countywide Transportation Fund	0.2500%
Base Statewide Rate	7.2500%
Prop A, Prop C, Measure R, Measure M Transit (4 x 0.5%)	2.0000%
Los Angeles County Measure H Homeless Programs	0.2500%
Current Total South Pasadena Rate	9.5000%

Additional Material 10 AGENDA ITEM #_ 10 0/19 City Council Mtg.

Sales Tax Historical Results

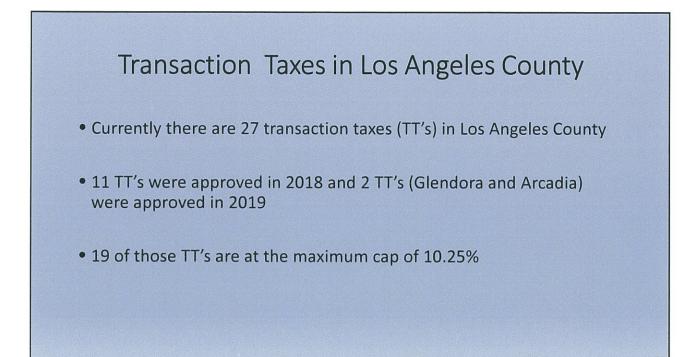
2016-17	\$2,173,347	Actual
2017-18	\$2,166,656	Actual
2018-19	\$2,252,037	Actual

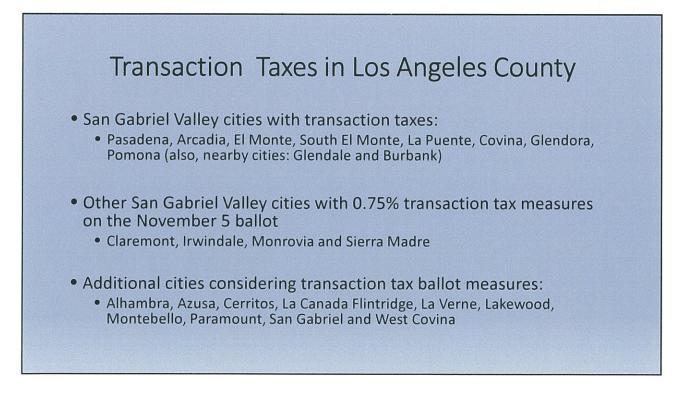
2019-20 \$2,130,802 Budget

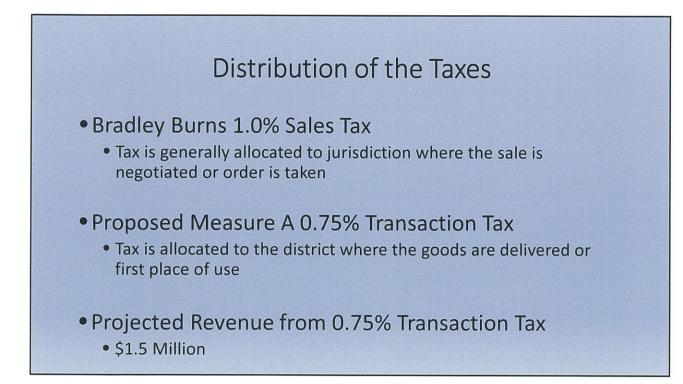
(reflects the loss of OSH, Koi Loungewear, and Big Lots)

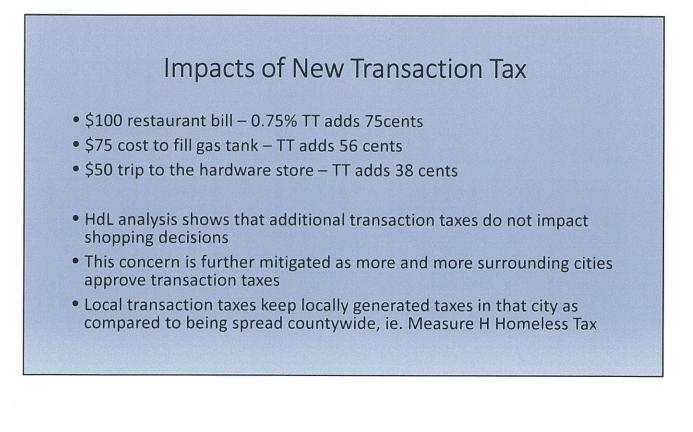
Sales Tax Makeup by Major Industry Group FY 19/20 Budget Projection

	Amount	% of Total
Restaurants and Hotels	\$ 570,322	26%
Food and Drugs	\$ 393,360	18%
General Consumer Goods	\$ 287,935	13%
State and County Pools	\$ 285,795	13%
Fuel and Service Stations	\$ 281,497	13%
Business and Industry	\$ 198,010	9%
Building and Construction	\$ 112,941	5%
Autos and Transportation	\$ 29,007	1%
Gross Sales Tax	\$ 2,158,867	100%
CDTFA Administration Cost	<u>\$ (28,065)</u>	
Total Sales Tax Revenues	\$ 2,130,802	









Circuit Reliability Review

South Pasadena

2019



Additional Material AGENDA ITEM # 10 12/19 City Council Mtg.

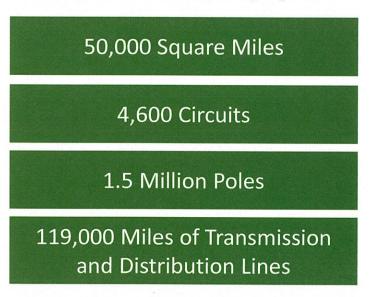
Who We Are

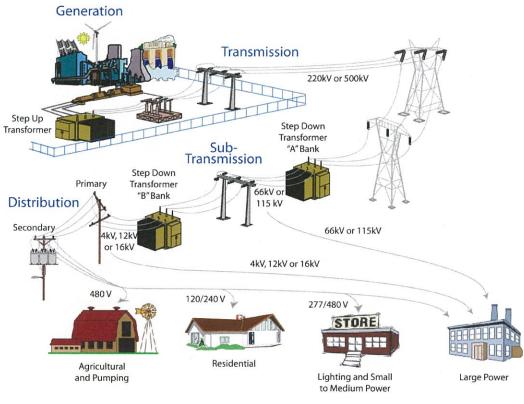
- Southern California Edison (SCE) is an Edison International company
- One of the nation's largest electric utilities
- More than 130 years of history
- Regulated by the California Public Utilities Commission (CPUC) and the Federal Energy Regulatory Commission (FERC)
- 50,000 square miles of SCE service area across Central, Coastal, and Southern California
- 15 million residents in service territory
- 5 million customer accounts in 445 cities and communities



Strengthening and Modernizing the Grid

- To deliver power safely, reliably and affordably, we monitor and maintain a vast electricity system.
- We are working on reducing the threat of wildfires and to better integrate clean energy technologies being adopted by customers (including solar and electric vehicles) to meet California's ambitious climate change goals.





Building the Grid of the Future

SCE spends about \$4 billion each year to build infrastructure.

- Infrastructure reliability updating underground cables, poles, switches, transformers
- Transmission connecting renewables, installing new substations, updating lines
- Grid readiness updating the grid for impacts from new technologies
- Future energy policy energy storage, electric vehicles, renewables

Examples of 2018 Capital Investments

250 miles of underground cable replaced

780 miles of overhead conductor replaced for public safety

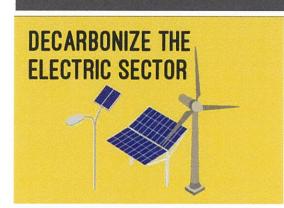
18,600 Distribution poles replaced

4,100 Transmission poles replaced

116 Underground structure replacements

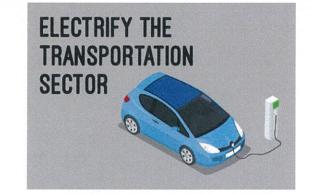
SCE's investments support safe, reliable, affordable, and clean energy for our customers

Clean Energy: SCE's Clean Power and Electrification Pathway

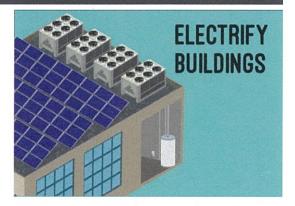


- By 2030, create an electric generation mix powered by as much as 80% carbon-free resources.
- More solar, wind, hydropower and other zero-emission sources, along with energy storage.
- Currently at about 45%

A Three Part, Integrated Solution



- Accelerate electrification of the transportation sector
 - By 2030, electrify 25% of cars and trucks – about 7 million in total.
 - > 15% of medium-duty vehicles electrified
 - 6% of heavy-duty vehicles electrified



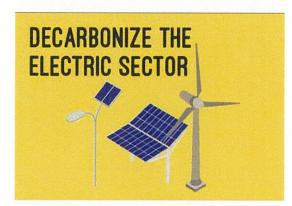
- Doubling of energy efficiency in existing buildings
- By 2030, electrify about onethird of space and water heating in buildings.
- Remove barriers to adoption and empower customers who want cleaner space and water heating options.

"SCE is changing... because our customers demand it," Pedro Pizarro, president and CEO of Edison International, SCE's parent company

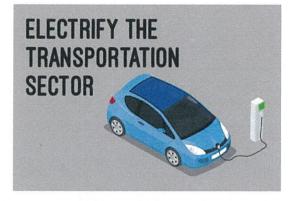
Working with customers to build a clean energy future

Energy for What's Ahead[™]

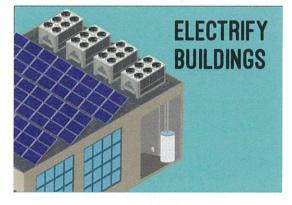
Clean Energy: Removing Barriers and Empowering Choice



- Information, tools, and resources for customers looking to install solar
- Improved interconnection process for getting solar systems connected sooner
- Self Generation Incentive Program (SGIP) provides rebates for customers who install energy storage
- Green Rate for customers who don't want or can't install solar panels, but want more renewable energy



- Clean Fuel Rewards offer \$1,000 rebate toward purchase or lease of electric vehicle (EV)
- If approved, Charge Ready 2 application will provide incentives for 48,000 public charging stations
- Charge Ready Transport provide incentives for commercial fleets to install charging infrastructure
- EV rates to make it more affordable to charge (both residential and commercial)



- Portfolio of energy efficiency programs for both residential and commercial
- Pilot with UC and CSU systems to reduce carbon emissions on their campuses
- Partnered with LADWP and SMUD to commission economic study of housing electrification costs and benefits

Empowering customers to make clean energy choices that best fit their needs

Wildfire: SCE's 2019 Wildfire Mitigation Plan (WMP)

Mitigations Activities • Enhanced overhead inspections (EOI) on transmission and distribution structures in HFRA Inspections Various existing inspections (poles, switches, circuits, relays, etc.) Infrared, Corona scanning and high definition (HD) imagery Operational **Public Safety Power** Effective communications and engagement with emergency Shutoff (PSPS) services, customers and communities · Weather stations and HD cameras per SCE's Grid Safety & Resiliency **Situational Awareness** Program (GSRP) Hazard tree removal per GSRP Vegetation Management Vegetation removal at poles LiDAR surveying for transmission, supplemental inspections in HFRA **Covered Conductor** Circuit miles of covered conductor in HFRA Infrastructure Undergrounding Evaluation of targeted undergrounding in HFRA Various system hardening activities (e.g., composite poles, current limiting fuses (CLFs), remote automatic reclosers (RARs), Fast Curve **Other Infrastructure** settings) **Mitigations** Studies, evaluations and pilots of alternative technologies

Note: Filed with the CPUC on February 6, 2019. HFRA = High Risk Fire Area.

The WMP, required by SB 901 (Dodd, 2018), is part of a larger, ongoing effort and incorporates and builds on the \$582 million GSRP that SCE submitted to the CPUC

Hardened System



Covered Conductor



Weather Stations



Fire Monitoring Cameras



Energy for What's Ahead[™]

Wildfire: Vegetation Management

- 20+ in-house certified arborists
- 800+ pruning contractors with 60 more crews added June/July 2018
- ≈ 900,000 trees inspected annually
- ≈ **700,000** pruned per year; **400,000** trees in high fire risk areas

- Remove dead, dying, diseased trees in HFRA (30,000 forecast for 2019)
- Remove additional 7,500 which pose a fall-in or blow-in risk to SCE electrical facilities in HFRA
- Expand vegetation clearance distance to 12 feet per CPUC recommendation



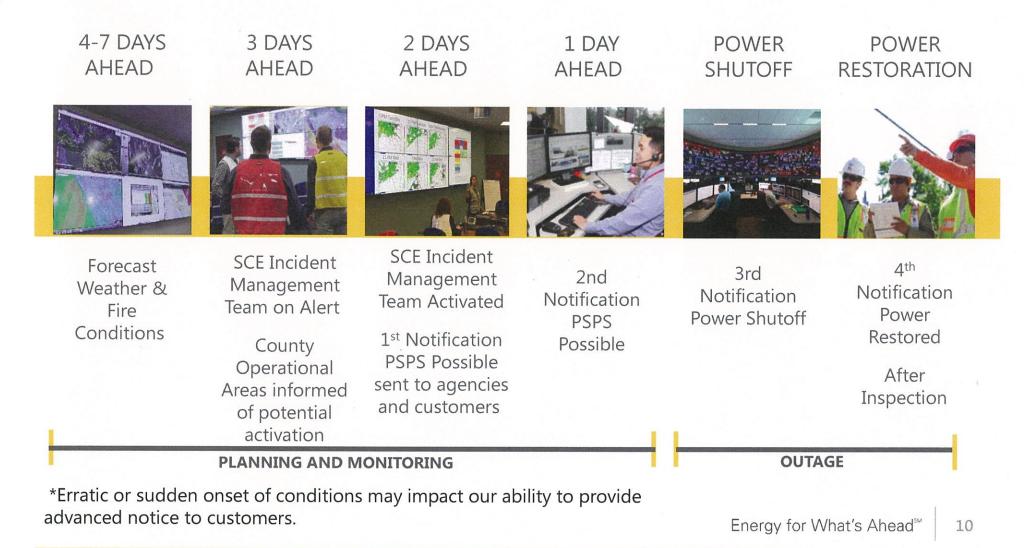
Dead, dying, diseased and certain other trees present a hazard and are removed to protect electrical facilities and reduce risk of fire.

Public Safety Power Shutoff (PSPS) Overview

- De-energization to prevent ignitions from powerlines
- Used during elevated fire conditions
- Red Flag Warning does not mean a PSPS will be called
- Actual frequency of PSPS events will depend on various weather and environmental factors
 - Decision will be made with most accurate assessment of real-time information and situational awareness data

Public Safety Power Shutoff (PSPS) Timeline

Ideal Timeline*



Reliability Overview



What is Reliability?

• In simplest terms:

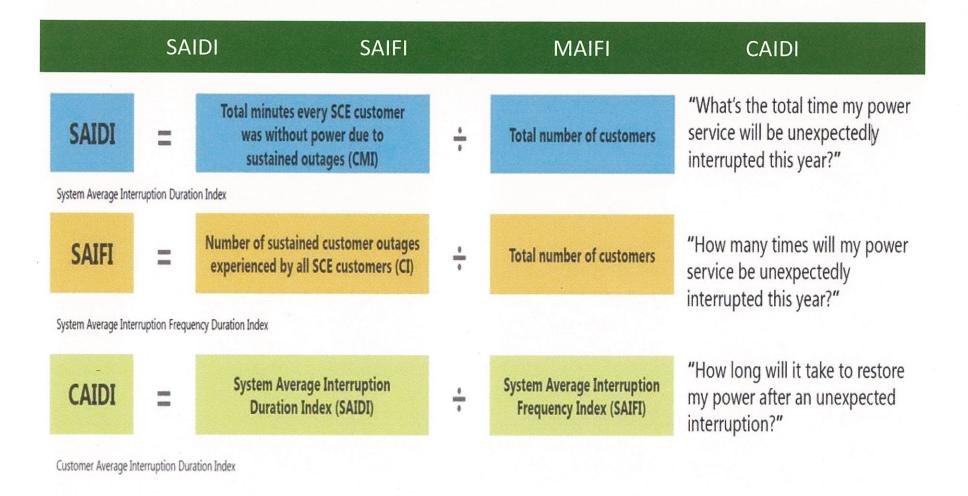
Having dependable electricity when you need it.

- Outages:
 - Maintenance outages (aka planned outages)
 - Repair outages (aka unplanned outages)
 - Sustained Outage = An outage lasting > 5 minutes
 - Momentary Outage = An outage lasting ≤
 5 minutes



Major Event Day (MED) : A day in which the daily system SAIDI exceeds a threshold value. For the purposes of calculating daily system SAIDI, any interruption that spans multiple calendar days is accrued to the day on which the interruption began. Statistically, days having a daily system SAIDI greater than a threshold value are days on which the energy delivery system experienced stresses beyond that normally expected (such as severe weather).

How Do We Measure Reliability?



Cities in the MONROVIA District

ALTADENA ARCADIA AZUSA BALDWIN PARK BRADBURY DUARTE EAST PASADENA EAST SAN GABRIEL GLENDALE IRWINDALE LA CANADA FLINTRIDGE LA CRESCENTA MONTROSE LOS ANGELES MAYFLOWER VILLAGE MONROVIA PASADENA SAN GABRIEL SAN MARINO SIERRA MADRE SOUTH PASADENA TEMPLE CITY VINCENT WEST PUENTE VALLEY

Reliability by SCE Districts (No Exclusions)

		20	14			20	15			20	16			20	17			20	018	
District Name	District SAIDI	SAIDI Ranking	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI Ranking	District	SAIFI Ranking												
ANTELOPE VALLEY	51.05	35	0.59	34	104.34	22	0.68	30	107.67	24	0.87	29		23	0.87	27		33		31
ARROWHEAD	193.25	5	1.59	5	362.61	4	3.97	1	659.46	3	2.85	5	816.52	2	3.86		68.60			
BARSTOW	201.53	4	1.34	10	187.11	8	1.17	12	134.83	18	1.35	9	357.47	6	2.65		116.70		1.37	
BIG CREEK	920.25	1	1.34	11	422.77	2	3.42	2	1062.01	2	4.99	1	4273.52	1	7.95	2	203.43	6	2.48	
BISHOP	118.79	17	0.59	35	298.11	6	2.22	4	168.59	8	1.22	14	190.51	10	1.93	9	139.70	12	0.54	
BLYTHE	707.54	2	2.42	2	427.00	1	1.52	7	396.38	5	2.71	6	684.48	3	2.38	7	277.72	3	1.57	4
CATALINA	97.02	24	4.17	1	42.56	35	2.25	3	65.01	35	3.66	3	70.67	34	0.54	35	141.45	11	2.44	2
COVINA	91.60	27	0.87	22	100.08	23	0.81	25	112.13	22	0.97	24	117.18	20	0.93	23	103.18	18	0.83	
DOMINGUEZ HILLS	82.30	29	0.71	28	130.63	15	0.97	17	146.38	12	1.11	17	123.60	18	0.83	28	93.37	19	0.85	
FOOTHILL	93.35	25	0.93	21	109.64	20	0.95	20	142.81	14	1.03	21	110.53	21	1.12	13	117.61	16	0.98	
FULLERTON	82.23	30	0.72	27	76.59	29	0.67	31	92.72	30	0.76	34	89.29	28	0.68	33	69.45	28	0.52	
HUNTINGTON BEACH	79.61	31	0.78	25	98.32	25	0.95	19	128.02	20	1.26	12	99.07	26	0.98	21	87.72	24	0.76	
KERNVILLE	178.69	8	1.99	3	286.38	7	0.96	18	2421.32	1	3.67	2	305.53	7	3.29	4	184.41	7	1.14	10
LONG BEACH	66.33	34	0.61	32	164.46	9	0.89	23	135.16	17	0.86	31	77.17	32	0.71	32	51.48	34	0.44	34
MENIFEE	156.68	11	1.32	12	111.46	19	0.98	16	156.75	9	1.31	10	130.47	16	0.96	22	174.06	8	0.90	
MONROVIA	133.32	14	1.16	16	96.68	26	0.88	24	116.57	21	0.84	32	105.00	22	0.98	20	243.02	5	1.43	8
MONTEBELLO	158.34	10	1.16	15	150.28	12	1.18	11	133.52	19	1.17	15	123.98	17	0.99	19	160.88	10	1.06	13
ONTARIO	97.91	23	1.00	19	94.04	27	0.74	27	105.07	27	0.93	27	100.43	24	1.13	12	80.04	26	0.72	
PALM SPRINGS	107.04	20	0.71	29	99.54	24	0.80	26	107.58	25	1.07	19	119.10	19	1.02	17	73.95	27	0.79	
REDLANDS	154.25	12	1.04	18	124.52	17	1.01	14	137.11	16	0.98	23	142.59	14	1.01	18	88.93	22	0.97	18
RIDGECREST	176.84	9	1.57	6	148.90	13	1.01	15	254.31	6	1.05	20	164.28	11	1.09	14	254.59	4	1.10	11
SADDLEBACK	99.07	22	0.74	26	46.03	34	0.39	35	65.99	34	0.65	35	65.35	35	0.58	34	45.80	35	0.38	35
SAN JOAQUIN	138.25	13	1.17	14	127.50	16	1.05	13	108.44	23	1.09	18	191.66	9	1.34	11	56.23	31	0.68	28
SANTA ANA	91.68	26	0.84	23	67.46	32	0.71	29	97.27	29	1.00	22	81.90	31	0.71	31	122.09	15	0.82	23
SANTA BARBARA	183.78	7	1.38	9	152.37	11	1.52	6	156.66	10	1.41	8	408.43	5	9.21	1	172.90	9	1.02	16
SANTA MONICA	110.76	19	0.99	20	75.41	30	0.62	32	91.08	31	0.95	26	71.89	33	0.71	30	80.24	25	1.04	15
SOUTH BAY	125.28	16	1.39	8	164.07	10	1.31	8	183.90	7	1.88	7	99.19	25	0.93	24	90.63	21	1.09	12
TEHACHAPI	130.70	15	1.29	13	298.96	5	1.21	9	97.29	28	1.13	16	86.51	29	1.05	16	55.99	32	0.67	29
THOUSAND OAKS	104.37	21	1.10	17	106.59	21	0.92	21	143.78	13	1.31	11	151.74	12	1.43	10	1167.54	1	1.48	6
VALENCIA	79.23	32	0.61	33	72.27	31	0.61	33	105.09	26	0.97	25	136.62	15	1.08	15	92.41	20	1.06	14
VENTURA	183.79	6	1.65	4	148.85	14	1.19	10	150.41	11	1.24	13	520.90	4	3.12	5	136.04	13	1.44	7
VICTORVILLE	68.85	33	0.63	31	87.03	28	0.91	22	79.35	33	0.92	28	84.07	30	0.89	26	125.92	14	0.86	20
WHITTIER	87.60	28	0.70	30	114.52	18	0.73	28	137.34	15	0.81	33	148.91	13	0.90	25	87.74	23	0.67	30
WILDOMAR	118.49	18	0.81	24	52.70	33	0.60	34	84.01	32	0.87	30	90.15	27	0.80	29	60.77	30	0.75	26
YUCCA VALLEY	304.25	3	1.49	7	389.08	3	1.80	5	463.68	4	3.39	4	300.33	8	1.96	8	353.83	2	1.94	3
SCE SystemWide	112.10		0.97		114.83		0.92		134.48		1.10	a la cara da	139.73		1.19		136.82		0.87	

*"Exclusions" are days which utilities are allowed to remove from their metrics because the outages on those days were caused by a severe acts of nature.

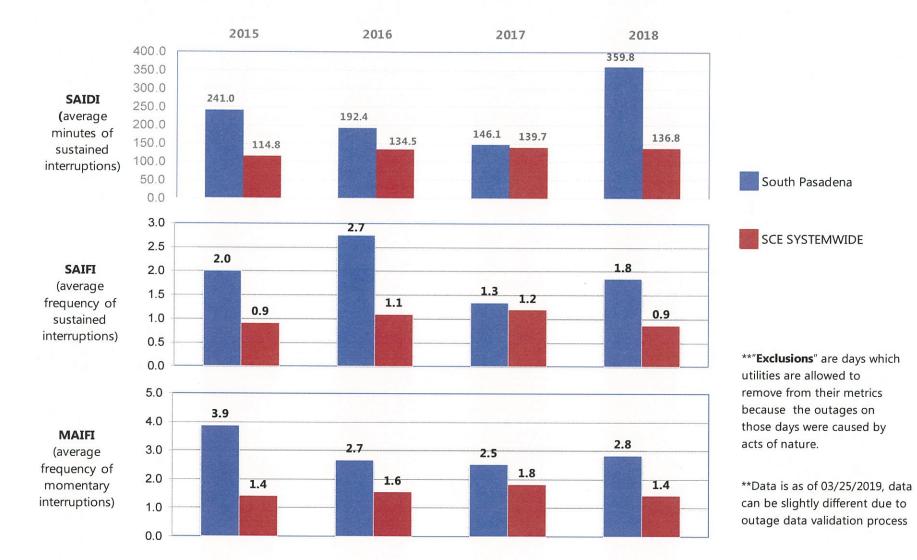
**In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of South Pasadena

There are 14 circuits that serve South Pasadena

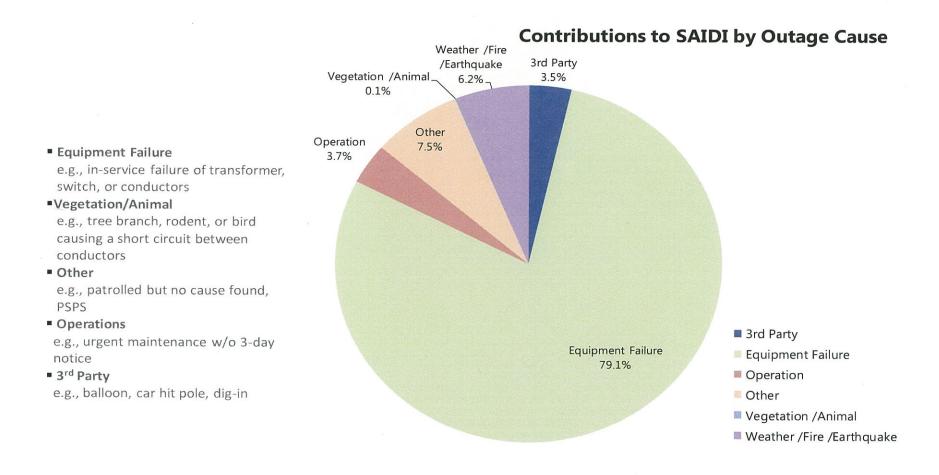
Circuit Type	Customers	Circuit Type	Customers	Circuit Type	Customers	Circuit Type	Customers	
ASTEROID(16KV)	4,489							
BRENT(4.16KV)	805							
CAWSTON(4.16KV)	275							
L CENTRO(4.16KV)	382							
REMONT(4.16KV)	454							
SRAVES(4.16KV)	315							
GREVELIA(4.16KV)	380							
ILLTOP(4.16KV)	134							
IOOVER(4.16KV)	264							
ARENGO(4.16KV)	189							
DXLEY(4.16KV)	387							
T. CHARLES(16KV)	1,185							
EST(16KV)	3,937							
RI CITY(16KV)	2,569							

Grand Total



Reliability History of Circuits Serving South Pasadena (No Exclusions)

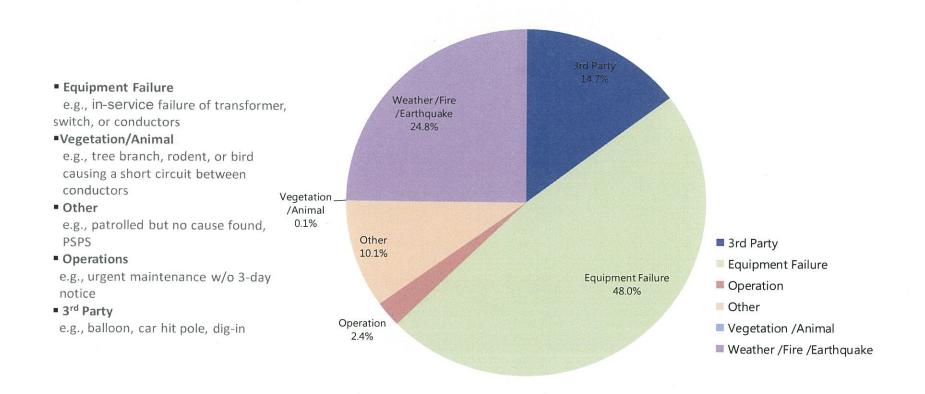
Causes of Repair Outages in South Pasadena 2018



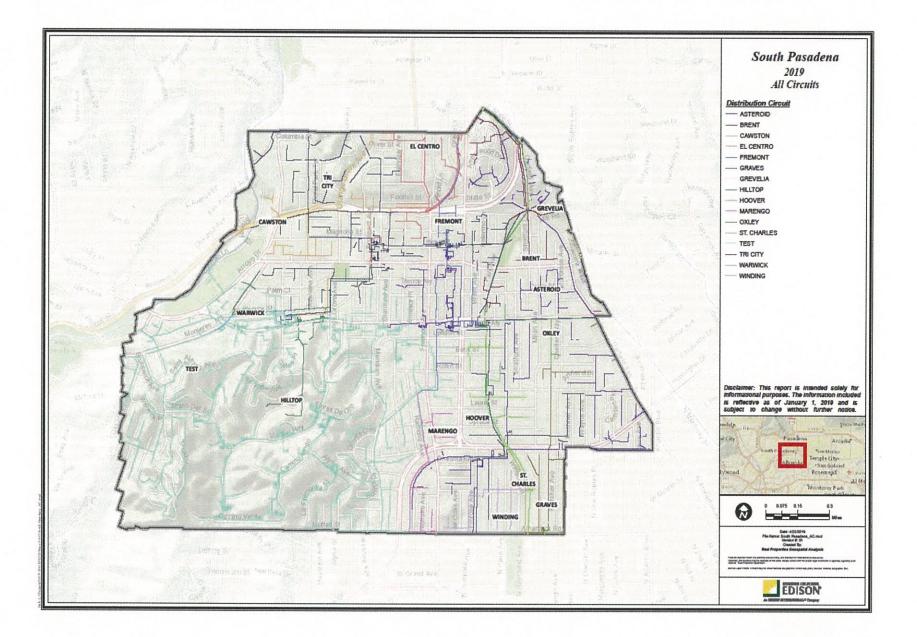
SAIDI = the cumulative amount of time the average customer is interrupted by "sustained" outages each year.

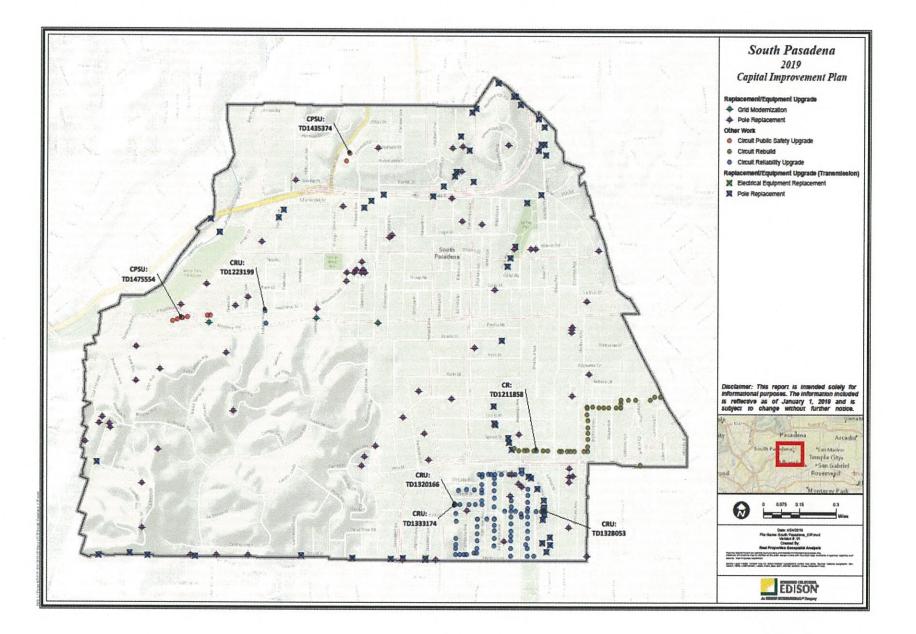
Causes of Repair Outages in South Pasadena 2018

Contributions to SAIFI by Outage Cause



SAIFI = the number of times the average customer is interrupted by "sustained" outages each year





Back-up Slides

Reliability Histories of Circuits Serving South Pasadena

Updated through Dec 2018



Average Reliability of 14 Circuits Serving South Pasadena

		2015			2016			2017		1s	t Qtr 20	18	2nd	d Qtr 20	18	3r	d Qtr 20	18	4t	h Qtr 20	18		2018	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
14 Circuits Serving South Pasadena Total																								
Customers: 15,765	241.0	2.0	3.9	192.4	2.7	2.7	146.1	1.3	2.5	56.0	0.6	0.4	19.1	0.3	0.5	72.7	0.6	0.9	212.0	0.4	1.0	359.8	1.8	2.8
3rd Party	9%	7%	0%	38%	29%	-	1%	1%	4%	-	-	-	0%	0%	8%	17%	43%	-	-	-	-	4%	15%	1%
Equipment Failure	40%	40%	11%	27%	41%	28%	56%	47%	5%	42%	56%	-	93%	85%	51%	49%	6%	-	98%	79%	46%	79%	48%	25%
Operation	3%	3%	1%	12%	16%	-	4%	9%	2%	4%	3%	-		-	-	15%	4%	4%	0%	0%	~	4%	2%	1%
Other	8%	16%	16%	-	-	24%	3%	1%	38%	40%	18%	62%	6%	13%	40%	5%	4%	-	0%	7%	28%	7%	10%	27%
Vegetation/Animal	2%	6%	47%	10%	10%	29%	1%	0%	36%	-	-	-	0%	0%	-	-2		67%	0%	0%	25%	0%	0%	30%
Weather/Fire/Earthquake	38%	27%	25%	13%	4%	18%	34%	43%	15%	15%	23%	38%	1%	1%	-	13%	43%	29%	2%	14%	-	6%	25%	15%
SCE SYSTEMWIDE	114.8	0.9	1.4	134.5	1.1	1.6	139.7	1.2	1.8	19.7	0.2	0.3	16.7	0.2	0.4	28.4	0.2	0.3	72.0	0.3	0.4	136.8	0.9	1.4
Notes:																								

No outages are excluded from the metrics.

Outage Causes:

Other: e.g., patrolled but no cause could be found

Operations: e.g., urgent maintenance w/o 3-day notice to customers

3rd Party: e.g., balloons, car hit pole, dig-in

Vegetation/Animal: e.g., tree branch, rodent, or bird causing short circuit across conductors

SAIDI (minutes) = the cumulative amount of time the average customer is interrupted by "sustained" (longer than 5 minutes) outages.

SAIFI (interruptions) = the number of times the average customer is interrupted by "sustained" outages.

MAIFI (interruptions) = the number of times the average customer is interrupted by "momentary" (lasting 5 minutes or less) outages.

		2015			2016	1.1	<u>.</u>	2017		19	t Qtr 20	18	2n	d Qtr 20	18	3r	d Qtr 20	18	4t	h Qtr 20)18		2018	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
ASTEROID(16KV) - Customers: 4,489	316.6	3.3	5.7	300.0	5.0	4.0	108.3	2.1	5.0	72.6	1.0	1.0	27.1	0.3	1.0	147.0	2.0	2.0	744.3	1.0	2.0	991.0	4.4	6.0
3rd Party	-	-	-	49%	40%	-	-	-	-	-	1.51	-	-	-	-	31%	48%	-	-		-	5%	23%	-
Equipment Failure	90%	64%	12%	27%	40%	25%	90%	51%	-	99%	100%	-	100%	100%	100%	45%	4%	-	100%	100%	50%	92%	55%	33%
Operation	1%	4%	-	18%	20%	-	3%	1%	-	1%	0%	-	-	-	-	-	-	-	-	-	2	0%	0%	-
Other	-	-	-	-	÷	25%	-		40%	-		100%	-	~	-		-	-	-	-	50%	-	-	33%
Vegetation/Animal	2%	1%	71%	0%	0%	25%	0%	0%	40%	-	÷	-	-	2	÷.,	-	-	51%	-	-	8	-	-	17%
Weather/Fire/Earthquake	7%	31%	17%	6%	0%	25%	7%	48%	20%	-	-	-	-	-		24%	48%	49%	- 1	-	-	4%	23%	16%
BRENT(4.16KV) - Customers: 805		-		222.3	2.0	-	144.9	1.0							-	-		-	82.5	1.0		82.5	1.0	
3rd Party	-	-	-	35%	50%	-	-	-			-	-		-		-	-		-	-	-	-	· .	-
Equipment Failure	-	-	-	-	-	-	100%	100%	-	-	-	-	-		-				-	-	-		-	-
Operation	-						-	-	-	-		-			1	-		-	-	-	-		-	-
Other	-	-	-				-	2		-		-	-	-		-		-	-	-	-		-	-
Vegetation/Animal	-	-	-	-	-	-	-	-			-	-	1.	-	-			-	-	-	-		-	-
Weather/Fire/Earthquake	-	-		65%	50%		-		-	-	-		-		-	-		-	100%	100%	-	100%	100%	-
CAWSTON(4.16KV) - Customers: 275	74.5	0.1	4.9	302.9	1.1	-	790.3	2.0	1.0	0.8	0.0		33.9	0.1	1.2	-		-	-	-	-	34.6	0.1	1.2
3rd Party	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Equipment Failure			-	14%	7%	-	18%	50%	-	-	-	-	92%	72%		-	-	-	-	-	-	90%	60%	-
Operation	~	-	20%	-	-	-	-	2	2	100%	100%	-	-	-	-	-	-	-	-	-	-	2%	16%	5
Other	-	-	20%	-	-	-	-	-	-		-	-		-	100%	-	-		2	-	-	-	-	100%
Vegetation/Animal	-	· -	-	a.		-		-	-	-	-	-	8%	28%	-	-			-	-	-	8%	24%	-
Weather/Fire/Earthquake	100%	100%	59%	86%	93%	-	82%	50%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
EL CENTRO(4.16KV) - Customers: 382	23.9	0.0	-				188.0	1.0	1.0										9.8	1.0	-	9.8	1.0	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-			-		-	72%	94%		- 1	-	-	-	-	-	-		-	-		-		-	-
Operation	-		-	-	-		28%	6%	100%	-	-	-		-		-		-	-	-	-	-	1	-
Other	-	1.	-			-	-	-	-	-	-	-	-	-	-	-		-	100%	100%	-	100%	100%	-
Vegetation/Animal	-	-	-		-		-	-	-		-	-			-	-		-	-	-	-	-		
Weather/Fire/Earthquake	100%	100%	-	-	-	1	-	-	-		-	-				_		-	_			-		

Reliability Histories for Individual Circuits Serving South Pasadena - 1 of 4

		2015			2016			2017		19	t Qtr 20)18	2n	d Qtr 20	18	3r	d Qtr 20	18	4t	h Qtr 2()18		2018	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
																							Per	
FREMONT(4.16KV) - Customers: 454	-	•	0.2	-	-	4.0	138.9	1.0	1.0		-	-			1.0	•	•		0.8	0.0		0.8	0.0	1.0
3rd Party	-	17	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	2	-	-	-	-	100%	100%	÷	-	-	-	-	-	-	-	~	-	-	-	-	-	-	-
Operation	-	-	100%	-	~	-		-	2	-	-	-	-	5	-	2		-	100%	100%	÷	100%	100%	-
Other			-	-	-	-	-	-		-	-	-	-	-	100%	-	-	-		-	-	-	-	100%
Vegetation/Animal	-	2	-		2	-	-	-	÷	-		-			-	-	-	-		-	-		-	-
Weather/Fire/Earthquake	-	-	-	- 1	-	100%	-	-	-	-	-	-	-	-	-	1.12	2	-	-	-	-	-	-	-
GRAVES(4.16KV) - Customers: 315	-		2.0	20.0	1.0	1.0	13.4	0.0	1.0	287.8	2.9		27.0	1.0		-				-	-	314.8	3.9	-
3rd Party	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	100%	100%	-	100%	100%	-	70%	92%	÷ .	-					-	-	-	-	64%	69%	-
Operation	-	-	-	-	-		-	-	1.	30%	8%		-	-		-		-	-	-	-	28%	6%	
Other	-	-	100%	-	-	100%	-	-	-	-	-		100%	100%		· - · ·		-	-	-		9%	25%	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-		-			-	-
Weather/Fire/Earthquake	-		-	-	-	-	-	-	100%	-	-		-	-		-		-	-		1.2		-	-
GREVELIA(4.16KV) - Customers: 380	73.0	1.0		124.9	1.0	1.0	168.0	1.1	-	-	-		0.6	0.0	-	138.2	1.0	-			-	138.8	1.0	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%		31%	3%	-	82%	92%	-		-	-	100%	100%	-	-	-	-	-	-	-	0%	2%	-
Operation	-	-	-	-	-	-	-	175			-	a	-	-	ā.	-			× .	-	-	-	-	-
Other	-	-	-	-	-	100%	18%	8%	-	12	-			-	-	100%	100%	-	3	-	-	100%	98%	-
Vegetation/Animal	-		-	-	-	-	-		-	-	-	-	-	-	-		-	14.0	-	-	-	-	-	-
Weather/Fire/Earthquake			-	69%	97%		-		-	a	-		-	-	-	-	-	-	-	-	-	-	-	~
HILLTOP(4.16KV) - Customers: 134	212.0	3.0	6.0	148.6	2.0	1.0	158.0	1.3	4.0						-			1.1			0.6		-	1.7
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	-	÷	17%	36%	50%	-	24%	14%	25%	-	5 - 5	-	-	-		-		-	-		100%	-		37%
Operation	-	-	-	1%	1%	-	7%	7%	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-
Other	100%	100%	33%	1.		-		-	25%	-	-	-		-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	50%	63%	49%	100%	-	-	25%		-	-		-	-	-	-	100%	-		-	-	-	63%
Weather/Fire/Earthquake	-	-	-			6	69%	79%	25%	1		-		-		-		. ·	-	1		-		_

Reliability Histories for Individual Circuits Serving South Pasadena - 2 of 4

		2015			2016			2017		19	st Qtr 20)18	2n	d Qtr 20	18	3r	d Qtr 20	18	4t	h Qtr 20)18		2018	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
HOOVER(4.16KV) - Customers: 264		1075	2.0	104.5	1.2	0.8	21.8	0.0	1.0	689.6	2.4		20.0	1.1										
3rd Party		•	50%	104.5	1.2	0.0	21.0	0.0	1.0	689.6	2.4	•	36.0	1.1	-	-	•	•	-	-	-	725.6	3.4	
Equipment Failure	-	-	50%	- 19%	- 86%	-	-	- 75%	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
Operation		-		19%	00%	-	87% 13%		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Other	-	-	50%	-	-	-	15%	25%	100%	1%	30%		-	-	177.0	-		-	-	-	-	1%	21%	-
Vegetation/Animal		-	3076	- 81%	- 14%	- 100%		-	-	99%	70%	-	100%	100%	4	-	-	-	-	-	8	99%	79%	7
Weather/Fire/Earthquake		-	-	01%	1470	100%	-	-	-	-	- Î	-	-	-	-	-	-	-	-	-	-	-	-	
MARENGO(4.16KV) - Customers: 189	190.8	0.3	2.0	133.7	0.2	1.0	-		5.0	-				-		-	-	-	-	-	-			
3rd Party	190.0	0.5	2.0	155./	0.2	1.0	0.8	0.0	5.0 20%	•	•	•	1.5	0.0	1.8	-	•	•	· ·	•		1.5	0.0	1.8
Equipment Failure	30%	28%	-	- 77%	- 70%		-	-	20%	-		•	100%	100%	100%	-	-	-	-	-	-	100%	100%	100%
Operation	0%	4%	-	5%	20%		100%	- 100%		-		2.	-		-	-		-	-	-	1	-		
Other	70%	4 % 68%	100%	370	20%	•	100%	100%	-	-				· ·	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	1070	00%	100%				-	-	60%	-	-		-	•	-	-		-	-	-	-	-	-	-
Weather/Fire/Earthquake		- E	-	- 18%	10%	- 100%	-	-	20%	-	-	- 5				-	-	-	-	-	-	-	-	-
OXLEY(4.16KV) - Customers: 387	108.1	0.5		- 10 /0	10 %	2.0	139.0	1.0	20%	-	-	-	-	-		4120	-	1.0	<u> </u>	-	-	-	-	-
3rd Party	-	0.5	-			2.0	133.0	1.0	•	-		-	-	•	•	412.6	0.4	1.0	•	•	-	412.6	0.4	1.0
Equipment Failure	48%	31%					100%	100%	-	-	-		-			-	-	-	- Î -	-	-	-	-	-
Operation	8%	30%			-	-	100%	100%	-	-	-	-	-	-	-	100%	100%	-	5	-	-	100%	100%	-
Other	44%	39%		2				-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	100%
Vegetation/Animal		-						-					Ĩ		-	-		-	-	-	-	-	-	
Weather/Fire/Earthquake		_		_	-	100%	-	_												-	-	-		-
ST. CHARLES(16KV) - Customers: 1,185			3.0	94.2	2.2	4.0				155.1	1.0								-			155.1	1.0	
3rd Party	-	_	-	-	-	-	-	-			1.0											155.1	1.0	•
Equipment Failure				21%	47%	50%		-			<u> </u>				2								6.3	
Operation	-			60%	7%	-			-		_		-											
Other	-		67%	-	-	-			-	100%	100%											100%	100%	
Vegetation/Animal	-		33%	19%	46%	50%	-		-	-	-			_							_	100/0	10070	
Weather/Fire/Earthquake					-	-			_		22											25		

Reliability Histories for Individual Circuits Serving South Pasadena - 3 of 4

		2015			2016			2017			1st Qtr 2018			2nd Qtr 2018			3rd Qtr 2018			4th Qtr 2018			2018		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAI	
TEST(16KV) - Customers: 3,937	551.5	3.7	7.5	179.7	1.7	3.5	270.7	2.4	2.4	25.3	0.4	0.3	4.0	0.0		6.3	0.0		13.8	0.0	1.0	49.5	0.5	1.4	
3rd Party	-	-	-	83%	60%	-	3%	2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	11%	28%	13%	12%	38%	28%	49%	30%	17%	-	-	-	100%	100%	-	100%	100%	1.2	92%	85%	-	46%	5%	12	
Operation	7%	3%	-	5%	3%	-	7%	24%	-	-	14	-	-		-	-	-	-	-	-		-	-		
Other	1%	15%	13%	-	2	28%	6%	0%	41%	1.2	-		1	÷	-	-	-	- 1	_	-	-		1		
Vegetation/Animal	4%	16%	33%	-	-	44%	2%	1%	41%	-	-	-	-	-			-	-	8%	15%	100%	2%	1%	75%	
Weather/Fire/Earthquake	78%	38%	41%	-	-	-	33%	44%	-	100%	100%	100%	-	-	-	-		-	-	-	-	51%	94%	25%	
TRI CITY(16KV) - Customers: 2,569	168.2	1.6	0.5	202.2	4.0	2.0	31.2	0.2	1.4	13.3	0.2	0.5	56.6	1.0	1.0	113.2	0.2	2.1			1.1	183.1	1.4	4.6	
3rd Party	93%	64%	3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	2%	0%	-	53%	51%	50%	23%	3%		-	-	-	97%	98%	-	36%	13%	-		-	100%	52%	74%	23%	
Operation			-	4%	24%	-	0%	0%		-	-	-	-	-		64%	87%	4%		-	-	40%	12%	2%	
Other	5%	35%	-		-	50%	6%	11%	26%	-		-		-	100%	-		_		-	-		-	21%	
Vegetation/Animal	-	-	97%	43%	25%	-	-	-	74%	-	-	-	-	-	-	-		96%		_	-	-	-	43%	
Weather/Fire/Earthquake	-	-		-		-	70%	85%	-	100%	100%	100%	3%	2%		-		-		-		8%	14%	11%	
		-				-	-	-	-			-	-			-	-	-					-		
-	-		-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
e.	-	-	-	-	-	-	140	-	-	2	-	-	-	-	-	-	-	-	-	<i>.</i>	-			-	
5		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	- 2	-	-	-			
		-	-	-	-	-	-	-	-	-		-	-		-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	÷.	1	-	2		-	-	-		-		-	-		-	
÷			-	~		- 1	-	-	-	-	-	-1	-	-	-	-	-		-	-	-	-	-	-	
				-						-								-							
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	÷	-	-	-	-	-	-	-		
	-	-	-		-	-	-			-	-	-		-		-		-		-	-	-			
	-	-	-	2	-	-		-	-	-	-	-		-	-	-		-	-	-	-	-	-		
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
•	-	-	-		-	-	-			-	-	-	-	-	-			-	-	-	-	-			
				-	-				-	-	-					-			-		-				

Reliability Histories for Individual Circuits Serving South Pasadena - 4 of 4